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# SAR TEST REPORT

|  |  |
|--|--|
| <b>Applicant Name:</b><br><b>SAMSUNG Electronics Co., Ltd.</b><br>129, Samsung-ro, Yeongtong-gu, Suwon-Si, Gyeonggi-do, 16677<br>Rep. of Korea | <b>Date of Issue: Feb. 25, 2021</b><br><b>Test Report No.: HCT-SR-2102-FC008-R2</b><br><b>Test Site: HCT CO., LTD.</b> |
|--|--|

**FCC ID:**

**A3LSMA326U**

|                               |   |
|-------------------------------|---|
| <b>Equipment Type:</b>        | <b>Mobile Phone</b>                                 |
| <b>Application Type</b>       | <b>Certification</b>                                |
| <b>FCC Rule Part(s):</b>      | <b>CFR §2.1093</b>                                  |
| <b>Model Name:</b>            | <b>SM-A326U</b>                                     |
| <b>Additional Model Name:</b> | <b>SM-A326U1/DS, SM-S326DL</b>                      |
| <b>Date of Test:</b>          | <b>Dec. 31. 2020 ~ Feb. 08. 2021, Feb. 25. 2021</b> |

This device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in FCC KDB procedures and had been tested in accordance with the measurement procedures specified in FCC KDB procedures.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Tested By

Reviewed By

Bong-kyun, Park  
Test Engineer  
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Technical Manager  
SAR Team  
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**REVISION HISTORY**

The revision history for this test report is shown in table.

| <b>Revision No.</b> | <b>Date of Issue</b> | <b>Description</b>                                     |
|---------------------|----------------------|--|
| 0                   | Feb. 15, 2021        | Initial Release  |
| 1                   | Feb. 19, 2021        | Revised sec 4.7 and sec 11.3                           |
| 2                   | Feb. 25, 2021        | Power class 2 of the n41 band was additionally tested. |

This test results were applied only to the test methods required by the standard.

The above Test Report is not related to the accredited test result by (KS Q) ISO/IEC 17025 and KOLAS(Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA.

## Table of Contents

|   |     |
|---|-----|
| 1. Test Regulations .....                                       | 4   |
| 2. Test Location.....   | 5   |
| 3. Information of the EUT .....                                 | 5   |
| 4. Device Under Test Description.....                           | 7   |
| 5. Introduction.....  | 26  |
| 6. Description of test equipment.....                           | 27  |
| 7. SAR Measurement Procedure .....                              | 28  |
| 8. Description of Test Position .....                           | 30  |
| 9. RF Exposure Limits .....                                     | 35  |
| 10. FCC SAR General Measurement Procedures .....                | 36  |
| 11. Output Power Specifications .....                           | 46  |
| 12. System Verification .....                                   | 246 |
| 13. SAR Test Data Summary.....                                  | 252 |
| 14. Simultaneous SAR Analysis.....                              | 294 |
| 15. SAR Measurement Variability and Uncertainty .....           | 310 |
| 16. LTE Band 41 Power Class 2 and Power class 3 Linearity ..... | 311 |
| 17. Measurement Uncertainty.....                                | 312 |
| 18. SAR Test Equipment .....                                    | 313 |
| 19. Conclusion .....  | 315 |
| 20. References .....  | 316 |
| 21. Appendix A. DUT Ant. Information & SETUP PHOTO .....        | 318 |

### **Appendix**

- Appendix A. DUT Ant. Information & Test SETUP PHOTO
- Appendix B. SAR Test Plots
- Appendix C. Dipole Verification Plots
- Appendix D. SAR Tissue Characterization
- Appendix E. SAR System Validation
- Appendix F. Probe Calibration Data
- Appendix G. Dipole Calibration Data
- Appendix H. Power reduction verification
- Appendix I. UL\_DLCA Power Measurement

## 1. Test Regulations

The tests documented in this report were performed in accordance with FCC CFR § 2.1093, IEEE 1528-2013, ANSI C63.26-2015 the following FCC Published RF exposure KDB procedures:

- FCC KDB Publication 941225 D01 3G SAR Procedures v03r01
- FCC KDB Publication 941225 D06 Hot Spot SAR v02r01
- FCC KDB Publication 941225 D05 SAR for LTE Devices v02r05
- FCC KDB Publication 941225 D05A LTE Rel.10 KDB Inquiry sheet v01r02
- FCC KDB Publication 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB Publication 447498 D01 General SAR Guidance v06
- FCC KDB Publication 648474 D04 Handset SAR v01r03
- FCC KDB Publication 616217 D04 v01r02 (Proximity Sensor)
- FCC KDB Publication 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- FCC KDB Publication 865664 D02 SAR Reporting v01r02
- FCC KDB Publication 690783 D01 SAR Listings on Grants v01r03
- FCC KDB Publication 971168 D01 Power Meas License Digital Systems v03r01

In Addition to the above, the following information was used.

- October 2013 TCB Workshop Notes (GPRS testing criteria)
- October 2014 TCB Workshop Notes (Overlapping LTE Bands)
- April 2015 TCB Workshop Notes (Simultaneous transmission summation clarified)
- October 2016 TCB Workshop Notes (Bluetooth Duty Factor)
- November 2017 TCBC Workshop Notes (LTE Carrier Aggregation)
- May 2017 TCBC Workshop Notes (LTE Band 41 Power Class 2)
- April 2018 TCBC Workshop Notes (LTE DL CA SAR Test Exclusion)

## 2. Test Location

### 2.1 Test Laboratory

|                     |   |
|---------------------|---|
| <b>Company Name</b> | HCT Co., Ltd.   |
| <b>Address</b>      | 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 KOREA |
| <b>Telephone</b>    | 031-645-6300  |
| <b>Fax.</b>         | 031-645-6401  |

### 2.2 Test Facilities

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|              |   |
|--------------|---|
| <b>Korea</b> | National Radio Research Agency (Designation No. KR0032) |
|              | KOLAS (Testing No. KT197)                               |

## 3. Information of the EUT

### 3.1 General Information of the EUT

|                              |                               |
|------------------------------|-------------------------------|
| <b>Model Name</b>            | SM-A326U                      |
| <b>Additional Model Name</b> | SM-A326U1/DS, SM-S326DL       |
| <b>Equipment Type</b>        | Mobile Phone                  |
| <b>FCC ID</b>                | A3LSMA326U                    |
| <b>Application Type</b>      | Certification                 |
| <b>Applicant</b>             | SAMSUNG Electronics Co., Ltd. |

### 3.2 Attestation of test result of device under test

| The Highest Reported 1g SAR               |  |                 |                     |              |             |               |
|---|--|-----------------|---------------------|--------------|-------------|---------------|
| Band                                      | Tx. Frequency                                | Equipment Class | Reported SAR (W/kg) |              |             |               |
|   |  |                 | 1g Head             | 1g Body-Worn | 1g Hotspot  | 10g Extremity |
| CDMA/EVDO BC10                            | 817.90 MHz~ 823.10 MHz                       | PCE             | 0.28                | 0.30         | 0.50        | N/A           |
| CDMA/EVDO BC0                             | 824.70 MHz~ 848.31 MHz                       | PCE             | 0.17                | 0.32         | 0.58        | N/A           |
| PCS CDMA/EVDO                             | 1 851.25 MHz~ 1 908.75 MHz                   | PCE             | 0.28                | 0.73         | 0.53        | N/A           |
| GSM/GPRS/EDGE 850                         | 824.2 MHz ~ 848.8 MHz                        | PCE             | 0.51                | 0.53         | <b>1.02</b> | N/A           |
| GSM/GPRS/EDGE 1900                        | 1 850.2 MHz ~ 1 909.8 MHz                    | PCE             | 0.17                | 0.34         | 0.72        | N/A           |
| UMTS 850                                  | 826.4 MHz ~ 846.6 MHz                        | PCE             | 0.35                | 0.37         | 0.72        | N/A           |
| UMTS 1700                                 | 1 712.4 MHz ~ 1 752.6 MHz                    | PCE             | 0.25                | 0.31         | 0.27        | N/A           |
| UMTS 1900                                 | 1 852.4 MHz ~ 1 907.6 MHz                    | PCE             | 0.27                | 0.52         | 0.33        | N/A           |
| LTE Band 2 (PCS)                          | 1 850.7 MHz ~ 1 909.3 MHz                    | PCE             | N/A                 | N/A          | N/A         | N/A           |
| LTE Band 4 (AWS)                          | 1 710.7 MHz ~ 1 754.3 MHz                    | PCE             | N/A                 | N/A          | N/A         | N/A           |
| LTE Band 5 (Cell)                         | 824.7 MHz ~ 848.3 MHz                        | PCE             | N/A                 | N/A          | N/A         | N/A           |
| LTE Band 7                                | 2 502.5 MHz~ 2 567.5 MHz                     | PCE             | <b>0.57</b>         | 0.78         | 0.50        | 0.96          |
| LTE Band 12                               | 699.7 MHz ~ 715.3 MHz                        | PCE             | 0.30                | 0.42         | 0.60        | N/A           |
| LTE Band 13                               | 779.5 MHz ~ 784.5 MHz                        | PCE             | 0.38                | 0.47         | 0.27        | N/A           |
| LTE Band 14                               | 790.5 MHz~ 795.5 MHz                         | PCE             | 0.28                | 0.38         | 0.22        | N/A           |
| LTE Band 25 (PCS)                         | 1 850.7 MHz~ 1 914.3 MHz                     | PCE             | 0.19                | 0.44         | 0.52        | N/A           |
| LTE Band 26 (Cell)                        | 814.7 MHz ~ 848.3 MHz                        | PCE             | 0.25                | 0.31         | 0.60        | N/A           |
| LTE Band 30                               | 2 307.5 MHz ~ 2 312.5 MHz                    | PCE             | 0.52                | 0.56         | 0.59        | <b>1.07</b>   |
| LTE TDD Band 38                           | 2 572.5 MHz ~ 2 617.5 MHz                    | PCE             | N/A                 | N/A          | N/A         | N/A           |
| LTE TDD Band 40                           | 2 302.5 MHz ~ 2 397.5 MHz                    | PCE             | <0.10               | <0.10        | <0.10       | N/A           |
| LTE TDD Band 41                           | 2 498.5 MHz ~ 2 687.5 MHz                    | PCE             | 0.35                | <b>1.17</b>  | 0.88        | <b>1.19</b>   |
| LTE TDD Band 48                           | 3 552.5 MHz~ 3 697.5 MHz                     | PCE             | 0.52                | 0.29         | 0.30        | N/A           |
| LTE Band 66 (AWS)                         | 1 710.7 MHz ~ 1 779.3 MHz                    | PCE             | 0.18                | 0.40         | 0.41        | N/A           |
| LTE Band 71                               | 665.5 MHz~ 695.5 MHz                         | PCE             | 0.24                | 0.42         | 0.49        | N/A           |
| NR Band n2                                | 1 852.5 MHz~ 1 907.5 MHz                     | PCE             | N/A                 | N/A          | N/A         | N/A           |
| NR Band n5                                | 826.5 MHz~ 846.5 MHz                         | PCE             | 0.27                | 0.34         | 0.59        | N/A           |
| NR Band n25                               | 1 852.5 MHz ~ 1 912.5 MHz                    | PCE             | 0.36                | 0.65         | <b>0.57</b> | 1.87          |
| NR Band n41                               | 2 506.02 MHz~ 2 679.99 MHz                   | PCE             | <b>0.51</b>         | <b>1.10</b>  | 1.14        | 1.34          |
| NR Band n66                               | 1 712.5 MHz~ 1 777.5 MHz                     | PCE             | 0.27                | 0.52         | 0.63        | <b>1.76</b>   |
| NR Band n71                               | 665.5 MHz ~ 695.5 MHz                        | PCE             | 0.23                | 0.37         | 0.46        | N/A           |
| NR Band n77                               | 3 710 MHz ~ 3 969.99 MHz                     | PCE             | 0.35                | 0.34         | <b>0.64</b> | 0.80          |
| 802.11b                                   | 2 412 MHz ~ 2 462 MHz                        | DTS             | <b>0.25</b>         | <b>0.16</b>  | <b>0.41</b> | N/A           |
| U-NII-1                                   | 5 180 MHz ~ 5 240 MHz                        | NII             | N/A                 | N/A          | N/A         | N/A           |
| U-NII-2A                                  | 5 260 MHz ~ 5 320 MHz                        | NII             | 0.19                | 0.22         | N/A         | 1.25          |
| U-NII-2C                                  | 5 500 MHz ~ 5 720 MHz                        | NII             | <b>0.34</b>         | <b>0.28</b>  | N/A         | <b>1.37</b>   |
| U-NII-3                                   | 5 745 MHz ~ 5 825 MHz                        | NII             | 0.18                | 0.24         | <b>0.36</b> | N/A           |
| Bluetooth                                 | 2 402 MHz ~ 2 480 MHz                        | DSS             | <0.10               | <0.10        | <0.10       | N/A           |
| Simultaneous SAR per KDB 690783 D01v01r03 |  |                 | <b>1.19</b>         | <b>1.47</b>  | <b>1.59</b> | <b>2.94</b>   |
| Date(s) of Tests:                         | Dec. 31. 2020 ~ Feb. 08. 2021, Feb. 24. 2021 |                 |                     |              |             |               |

## 4. Device Under Test Description

### 4.1 DUT specification

| Device Wireless specification overview |                |                            |
|--|----------------|----------------------------|
| Band & Mode                            | Operating Mode | Tx Frequency               |
| CDMA/EVDO BC10                         | Voice / Data   | 817.90 MHz~ 823.10 MHz     |
| CDMA/EVDO BC0                          | Voice / Data   | 824.70 MHz~ 848.31 MHz     |
| PCS CDMA/EVDO                          | Voice / Data   | 1 851.25 MHz~ 1 908.75 MHz |
| GSM850                                 | Voice / Data   | 824.2 MHz~ 848.8 MHz       |
| GSM1900                                | Voice / Data   | 1 850.2 MHz~ 1 909.8 MHz   |
| UMTS 850                               | Voice / Data   | 826.4 MHz~ 846.6 MHz       |
| UMTS 1700                              | Voice / Data   | 1 712.4 MHz~ 1 752.6 MHz   |
| UMTS 1900                              | Voice / Data   | 1 852.4 MHz~ 1 907.6 MHz   |
| LTE Band 2 (PCS)                       | Voice / Data   | 1 850.7 MHz~ 1 909.3 MHz   |
| LTE Band 4 (AWS)                       | Voice / Data   | 1 710.7 MHz~ 1 754.3 MHz   |
| LTE Band 5 (Cell)                      | Voice / Data   | 824.7 MHz~ 848.3 MHz       |
| LTE Band 7                             | Voice / Data   | 2 502.5 MHz~ 2 567.5 MHz   |
| LTE Band 12                            | Voice / Data   | 699.7 MHz~ 715.3 MHz       |
| LTE Band 13                            | Voice / Data   | 779.5 MHz~ 784.5 MHz       |
| LTE Band 14                            | Voice / Data   | 790.5 MHz~ 795.5 MHz       |
| LTE Band 25                            | Voice / Data   | 1 850.7 MHz~ 1 914.3 MHz   |
| LTE Band 26                            | Voice / Data   | 814.7 MHz~ 848.3 MHz       |
| LTE Band 30                            | Voice / Data   | 2 307.5 MHz ~ 2 312.5 MHz  |
| LTE TDD Band 38                        | Voice / Data   | 2 572.5 MHz ~ 2 617.5 MHz  |
| LTE TDD Band 40                        | Voice / Data   | 2 302.5 MHz ~ 2 397.5 MHz  |
| LTE TDD Band 41                        | Voice / Data   | 2 498.5 MHz~ 2 687.5 MHz   |
| LTE TDD Band 48                        | Voice / Data   | 3 552.5 MHz~ 3697.5 MHz    |
| LTE Band 66 (AWS)                      | Voice / Data   | 1 710.7 MHz ~ 1 779.3 MHz  |
| LTE Band 71                            | Voice / Data   | 665.5 MHz~ 695.5 MHz       |
| NR Band n2                             | Data           | 1 852.5 MHz~ 1 907.5 MHz   |
| NR Band n5                             | Data           | 826.5 MHz~ 846.5 MHz       |
| NR Band n25                            | Data           | 1852.5 MHz ~ 1912.5 MHz    |
| NR Band n41                            | Data           | 2 506.02 MHz~ 2 679.99 MHz |
| NR Band n66                            | Data           | 1 712.5 MHz~ 1 777.5 MHz   |
| NR Band n71                            | Data           | 665.5 MHz - 695.5 MHz      |
| NR Band n77                            | Data           | 3710 MHz~3969.99 MHz       |
| U-NII-1                                | Voice / Data   | 5 180 MHz ~ 5 240 MHz      |
| U-NII-2A                               | Voice / Data   | 5 260 MHz ~ 5 320 MHz      |
| U-NII-2C                               | Voice / Data   | 5 500 MHz ~ 5 720 MHz      |
| U-NII-3                                | Voice / Data   | 5 745 MHz ~ 5 825 MHz      |
| 2.4 GHz WLAN                           | Voice / Data   | 2 412 MHz ~ 2 462 MHz      |
| Bluetooth / LE 5.0                     | Data           | 2 402 MHz ~ 2 480 MHz      |
| NFC                                    | Data           | 13.56 MHz                  |

| Device Description   |  |               |
|--|--|---------------|
| H/W  | REV1.0   |               |
| S/W  | A326U.001  |               |
| Device Serial Numbers  | Mode   | Serial Number |
|  | CDMA BC1 /LTE B41/ B7 phablet<br>LTE B25 head bodyworn<br>LTE B41 head hotspot/ LTE B66  | TLN0374H      |
|  | CDMA BC0 BC10/ GSM1900/ UMTS B2 head<br>LTE B7 head hotspot body worn<br>NR n5/n66 head hotspot / NR n7 Phablet /<br>NR n41 head hotspot | TLN0369H      |
|  | UMTS B4 head   | UAK0065H      |
|  | UMTS B5/B2/B4 hotspot/ LTE B25 hotspot/<br>LTE B48/ NR n77 hotspot bodyworn/ NR n66<br>bodyworn Phablet                                  | TLN0259H      |
|  | GSM850<br>LTE B12/B13/B14/B26/B30/B40/B71<br>NR n71  | TLN0395H      |
|  | LTE B41 bodyworn   | UB21707M      |
|  | NR n25   | TLQ4731M      |
|  | NR n41/ n77 head   | UAB1282M      |
|  | WLAN 2.4GHz/ WLAN 5GHz/ BT   | TLN0408H      |
|  | NR n41 Phablet   | UAB1282M      |
| The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics are within operational tolerances expected for production units. |  |               |

## 4.2 Power Reduction for SAR

This device utilizes power reduction mechanisms for some wireless modes and bands for SAR compliance under hotspot conditions and under some conditions when the device is being used in close proximity to the user’s hand. All hotspot SAR evaluations for this device were performed at the maximum allowed output power when Hotspot is enabled. FCC KDB Publication 616217 D04v01r02 Sec.6 was used as a guideline for selection SAR test distances for device when being used in phablet use conditions.

This device uses an independent fixed level power reduction mechanism for some wireless modes during held-to-ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR Positions described in IEEE1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

Detailed descriptions of the power reduction mechanism are included in the operational description. Please refer to Appendix H for detailed power reduction verification.

The reduced powers for the power reduction mechanisms were conformed via conducted power measurements at the RF Port.



### 4.3 Nominal and Maximum Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

#### 4.3.1 Maximum PCE Output Power

| Mode / Band |         | Modulated Average (dBm) |                   |
|-------------|---------|-------------------------|-------------------|
|             |         | CDMA                    | EVDO EVDO Rev 0,A |
| CDMA BC0    | Maximum | 25.5                    | 25.5              |
|             | Nominal | 24.5                    | 24.5              |
| CDMA BC1    | Maximum | 25.0                    | 25.0              |
|             | Nominal | 24.0                    | 24.0              |
| CDMA BC10   | Maximum | 25.5                    | 25.5              |
|             | Nominal | 24.5                    | 24.5              |

| Mode / Band       |         | Voice     | Burst Average GMSK (dBm) |           |           |           | Burst Average 8-PSK (dBm) |           |           |           |
|-------------------|---------|-----------|--------------------------|-----------|-----------|-----------|---------------------------|-----------|-----------|-----------|
|                   |         | 1 Tx Slot | 1 Tx Slot                | 2 Tx Slot | 3 Tx Slot | 4 Tx Slot | 1 Tx Slot                 | 2 Tx Slot | 3 Tx Slot | 4 Tx Slot |
| GSM/GPRS/EDGE 850 | Maximum | 34.0      | 34.0                     | 33.0      | 31.0      | 30.0      | 28.5                      | 27.5      | 25.0      | 24.5      |
|                   | Nominal | 33.0      | 33.0                     | 32.0      | 30.0      | 29.0      | 27.5                      | 26.5      | 24.0      | 23.5      |
| GSM/GPRS/EDGE1900 | Maximum | 31.0      | 31.0                     | 30.0      | 28.0      | 27.0      | 27.0                      | 26.0      | 24.0      | 23.0      |
|                   | Nominal | 30.0      | 30.0                     | 29.0      | 27.0      | 26.0      | 26.0                      | 25.0      | 23.0      | 22.0      |

| Mode / Band            |         | Modulated Average (dBm) |      |            |            |          |
|------------------------|---------|-------------------------|------|------------|------------|----------|
|                        |         | 3GPP UMTS               | AMR  | 3GPP HSDPA | 3GPP HSUPA | DC-HSDPA |
| UMTS Band 5 (850 MHz)  | Maximum | 25.0                    | 25.0 | 24.0       | 21.5       | 23.5     |
|                        | Nominal | 24.0                    | 24.0 | 23.0       | 20.5       | 22.5     |
| UMTS Band 4 (1700 MHz) | Maximum | 25.0                    | 25.0 | 23.5       | 21.5       | 23.0     |
|                        | Nominal | 24.0                    | 24.0 | 22.5       | 20.5       | 22.0     |
| UMTS Band 2 (1900 MHz) | Maximum | 24.5                    | 24.5 | 23.5       | 21.5       | 23.0     |
|                        | Nominal | 23.5                    | 23.5 | 22.5       | 20.5       | 22.0     |

| Mode / Band            |         | Modulated Average (dBm) |      |
|------------------------|---------|-------------------------|------|
|                        |         |                         | Max  |
| LTE Band 2             | Maximum |                         | 24.5 |
|                        | Nominal |                         | 23.5 |
| LTE Band 4             | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 5             | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 7             | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 12            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 13            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 14            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 25            | Maximum |                         | 24.5 |
|                        | Nominal |                         | 23.5 |
| LTE Band 26            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 30            | Maximum |                         | 24.5 |
|                        | Nominal |                         | 23.5 |
| LTE TDD Band 38        | Maximum |                         | 24.0 |
|                        | Nominal |                         | 23.0 |
| LTE TDD Band 40        | Maximum |                         | 11.0 |
|                        | Nominal |                         | 10.0 |
| LTE TDD Band 41 (PC 3) | Maximum |                         | 24.0 |
|                        | Nominal |                         | 23.0 |
| LTE TDD Band 41 (PC 2) | Maximum |                         | 27.0 |
|                        | Nominal |                         | 26.0 |
| LTE TDD Band 48        | Maximum |                         | 24.0 |
|                        | Nominal |                         | 23.0 |
| LTE Band 66            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |
| LTE Band 71            | Maximum |                         | 25.0 |
|                        | Nominal |                         | 24.0 |

**5G NR SUB 6**

| Mode / Band               |         | Modulated Average (dBm) |  |
|---------------------------|---------|-------------------------|--|
|                           |         | Max                     |  |
| NR Band n2                | Maximum | 24.5                    |  |
|                           | Nominal | 23.5                    |  |
| NR Band n5                | Maximum | 25.0                    |  |
|                           | Nominal | 24.0                    |  |
| NR Band n25               | Maximum | 24.5                    |  |
|                           | Nominal | 23.5                    |  |
| NR Band n41 (PC3)         | Maximum | 25.0                    |  |
|                           | Nominal | 24.0                    |  |
| NR Band n41 (PC2) SA only | Maximum | 27.0                    |  |
|                           | Nominal | 26.0                    |  |
| NR Band n66               | Maximum | 25.0                    |  |
|                           | Nominal | 24.0                    |  |
| NR Band n71               | Maximum | 25.0                    |  |
|                           | Nominal | 24.0                    |  |
| NR Band n77               | Maximum | 24.5                    |  |
|                           | Nominal | 23.5                    |  |

**4.3.2 Reduced PCE Power (RCV On Mode / Hotspot Mode / Grip Sensor on / Earjack)**

| Mode / Band   |         | Modulated Average (dBm) |                   |
|---|---------|-------------------------|-------------------|
|   |         | CDMA                    | EVDO EVDO Rev 0,A |
| CDMA BC1<br>Hotspot Mode / Grip Sensor on / Earjack | Maximum | 21.5                    | 21.5              |
|   | Nominal | 20.5                    | 20.5              |

| Mode / Band                                   |         | Voice     | Burst Average GMSK (dBm) |           |           |           | Burst Average 8-PSK (dBm) |           |           |           |
|---|---------|-----------|--------------------------|-----------|-----------|-----------|---------------------------|-----------|-----------|-----------|
|   |         | 1 Tx Slot | 1 Tx Slot                | 2 Tx Slot | 3 Tx Slot | 4 Tx Slot | 1 Tx Slot                 | 2 Tx Slot | 3 Tx Slot | 4 Tx Slot |
| GSM/GPRS/EDGE1900<br>Grip Sensor on / Earjack | Maximum | 27.0      | 27.0                     | 28.0      | 23.0      | 21.0      | 23.0                      | 21.0      | 19.0      | 17.0      |
|   | Nominal | 26.0      | 26.0                     | 24.0      | 22.0      | 20.0      | 22.0                      | 20.0      | 18.0      | 16.0      |

| Mode / Band   |         | Modulated Average (dBm) |      |            |            |          |
|---|---------|-------------------------|------|------------|------------|----------|
|   |         | 3GPP UMTS               | AMR  | 3GPP HSDPA | 3GPP HSUPA | DC-HSDPA |
| UMTS Band 5 (850 MHz)<br>Grip Sensor on / Earjack                 | Maximum | 21.0                    | 21.0 | 19.5       | 17.5       | 19.5     |
|   | Nominal | 20.0                    | 20.0 | 18.5       | 16.5       | 18.5     |
| UMTS Band 4 (1700 MHz)<br>Hotspot Mode / Grip Sensor on / Earjack | Maximum | 20.5                    | 20.5 | 19.5       | 18.0       | 19.0     |
|   | Nominal | 19.5                    | 19.5 | 18.5       | 17.0       | 18.0     |
| UMTS Band 2 (1900 MHz)<br>Hotspot Mode / Grip Sensor on / Earjack | Maximum | 20.0                    | 20.0 | 19.0       | 17.0       | 18.5     |
|   | Nominal | 19.0                    | 19.0 | 18.0       | 16.0       | 17.5     |

| Mode / Band        |         | Modulated Average (dBm) |                               |             |
|--------------------|---------|-------------------------|-------------------------------|-------------|
|                    |         | Hotspot Mode            | Grip Sensor on / Earjack Mode | RCV on Mode |
| LTE Band 2         | Maximum | 21.0                    | 21.0                          | -           |
|                    | Nominal | 20.0                    | 20.0                          | -           |
| LTE Band 4         | Maximum | 21.5                    | 21.5                          | -           |
|                    | Nominal | 20.5                    | 20.5                          | -           |
| LTE Band 7         | Maximum | 19.0                    | 19.0                          | 22.0        |
|                    | Nominal | 18.0                    | 18.0                          | 21.0        |
| LTE Band 13        | Maximum | 22.0                    | 22.0                          | -           |
|                    | Nominal | 21.0                    | 21.0                          | -           |
| LTE Band 14        | Maximum | 22.0                    | 22.0                          | -           |
|                    | Nominal | 21.0                    | 21.0                          | -           |
| LTE Band 25        | Maximum | 21.5                    | 21.5                          | -           |
|                    | Nominal | 20.5                    | 20.5                          | -           |
| LTE Band 30        | Maximum | 20.0                    | 20.0                          | 21.5        |
|                    | Nominal | 19.0                    | 19.0                          | 20.5        |
| LTE Band 38        | Maximum | 19.0                    | 19.0                          | 21.0        |
|                    | Nominal | 18.0                    | 18.0                          | 20.0        |
| LTE Band 41        | Maximum | 21.0                    | 21.0                          | 21.0        |
|                    | Nominal | 20.0                    | 20.0                          | 20.0        |
| LTE Band 41 (HUPE) | Maximum | 21.0                    | 21.0                          | 21.0        |
|                    | Nominal | 20.0                    | 20.0                          | 20.0        |
| LTE Band 48        | Maximum | 20.0                    | -                             | 19.0        |
|                    | Nominal | 19.0                    | -                             | 18.0        |
| LTE Band 66        | Maximum | 21.5                    | 21.5                          | -           |
|                    | Nominal | 20.5                    | 20.5                          | -           |

**5G NR SUB 6**

| Mode / Band               |         | Modulated Average (dBm) |                               |             |
|---------------------------|---------|-------------------------|-------------------------------|-------------|
|                           |         | Hotspot Mode            | Grip Sensor on / Earjack Mode | RCV on Mode |
| NR Band n2                | Maximum | 21.5                    | 18.5                          | -           |
|                           | Nominal | 20.5                    | 17.5                          | -           |
| NR Band n25               | Maximum | 21.5                    | 18.5                          | -           |
|                           | Nominal | 20.5                    | 17.5                          | -           |
| NR Band n41 (PC3)         | Maximum | 22.0                    | 22.0                          | 22.0        |
|                           | Nominal | 21.0                    | 21.0                          | 21.0        |
| NR Band n41 (PC2) SA only | Maximum | 24.5                    | 24.5                          | 24.5        |
|                           | Nominal | 23.5                    | 23.5                          | 23.5        |
| NR Band n66               | Maximum | 22.0                    | 21.0                          | -           |
|                           | Nominal | 21.0                    | 20.0                          | -           |
| NR Band n77               | Maximum | 21.5                    | -                             | 19.5        |
|                           | Nominal | 20.5                    | -                             | 18.5        |

**4.3.3 Maximum 2.4 GHz, 5 GHz WIFI output power**

| Mode / Band            |          |         | Modulated Average (dBm) |     |     |                |                |
|------------------------|----------|---------|-------------------------|-----|-----|----------------|----------------|
|                        |          |         | SISO                    |     |     |                |                |
|                        |          |         | 11a                     | 11b | 11g | 11n            | 11ac           |
| 2.4 GHz WIFI           | 2.45 GHz | Maximum | N/A                     | 20  | 19  | 19             | N/A            |
|                        |          | Nominal | N/A                     | 19  | 18  | 18             | N/A            |
| 5 GHz WIFI<br>(20 MHz) | 5200 MHz | Maximum | 18                      | N/A | N/A | 18             | 18             |
|                        |          | Nominal | 17                      | N/A | N/A | 17             | 17             |
|                        | 5300 MHz | Maximum | 18                      | N/A | N/A | 18             | 18             |
|                        |          | Nominal | 17                      | N/A | N/A | 17             | 17             |
|                        | 5500 MHz | Maximum | 18                      | N/A | N/A | 18(100ch : 17) | 18             |
|                        |          | Nominal | 17                      | N/A | N/A | 17(100ch : 16) | 17             |
|                        | 5800 MHz | Maximum | 18                      | N/A | N/A | 18             | 18             |
|                        |          | Nominal | 17                      | N/A | N/A | 17             | 17             |
| 5 GHz WIFI<br>(40 MHz) | 5200 MHz | Maximum | N/A                     | N/A | N/A | 18(38ch : 16)  | 18(38ch : 16)  |
|                        |          | Nominal | N/A                     | N/A | N/A | 17(38ch : 15)  | 17(38ch : 15)  |
|                        | 5300 MHz | Maximum | N/A                     | N/A | N/A | 18(62ch : 15)  | 18(62ch : 15)  |
|                        |          | Nominal | N/A                     | N/A | N/A | 17(62ch : 14)  | 17(62ch : 14)  |
|                        | 5500 MHz | Maximum | N/A                     | N/A | N/A | 18(102ch : 15) | 18(102ch : 15) |
|                        |          | Nominal | N/A                     | N/A | N/A | 17(102ch : 14) | 17(102ch : 14) |
|                        | 5800 MHz | Maximum | N/A                     | N/A | N/A | 18             | 18             |
|                        |          | Nominal | N/A                     | N/A | N/A | 17             | 17             |
| 5 GHz WIFI<br>(80 MHz) | 5210 MHz | Maximum | N/A                     | N/A | N/A | N/A            | 14             |
|                        |          | Nominal | N/A                     | N/A | N/A | N/A            | 13             |
|                        | 5290 MHz | Maximum | N/A                     | N/A | N/A | N/A            | 14             |
|                        |          | Nominal | N/A                     | N/A | N/A | N/A            | 13             |
|                        | 5500 MHz | Maximum | N/A                     | N/A | N/A | N/A            | 14             |
|                        |          | Nominal | N/A                     | N/A | N/A | N/A            | 13             |
|                        | 5800 MHz | Maximum | N/A                     | N/A | N/A | N/A            | 14             |
|                        |          | Nominal | N/A                     | N/A | N/A | N/A            | 13             |

**4.3.4 Reduced 2.4 GHz, 5 GHz WIFI output power**

| Mode / Band            |                        |          | Modulated Average (dBm) |     |     |     |      |    |
|------------------------|------------------------|----------|-------------------------|-----|-----|-----|------|----|
|                        |                        |          | SISO                    |     |     |     |      |    |
|                        |                        |          | 11a                     | 11b | 11g | 11n | 11ac |    |
| 2.4 GHz WIFI           | 2.45 GHz               | Maximum  | N/A                     | 16  | 16  | 16  | N/A  |    |
|                        |                        | Nominal  | N/A                     | 15  | 15  | 15  | N/A  |    |
| 5 GHz WIFI<br>(20 MHz) | 5200 MHz               | Maximum  | 14                      | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | 13                      | N/A | N/A | 13  | 13   |    |
|                        | 5300 MHz               | Maximum  | 14                      | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | 13                      | N/A | N/A | 13  | 13   |    |
|                        | 5500 MHz               | Maximum  | 14                      | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | 13                      | N/A | N/A | 13  | 13   |    |
|                        | 5800 MHz               | Maximum  | 14                      | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | 13                      | N/A | N/A | 13  | 13   |    |
|                        | 5 GHz WIFI<br>(40 MHz) | 5200 MHz | Maximum                 | N/A | N/A | N/A | 14   | 14 |
|                        |                        |          | Nominal                 | N/A | N/A | N/A | 13   | 13 |
|                        |                        | 5300 MHz | Maximum                 | N/A | N/A | N/A | 14   | 14 |
|                        |                        |          | Nominal                 | N/A | N/A | N/A | 13   | 13 |
| 5500 MHz               |                        | Maximum  | N/A                     | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | N/A                     | N/A | N/A | 13  | 13   |    |
| 5800 MHz               |                        | Maximum  | N/A                     | N/A | N/A | 14  | 14   |    |
|                        |                        | Nominal  | N/A                     | N/A | N/A | 13  | 13   |    |
| 5 GHz WIFI<br>(80 MHz) |                        | 5210 MHz | Maximum                 | N/A | N/A | N/A | N/A  | 14 |
|                        |                        |          | Nominal                 | N/A | N/A | N/A | N/A  | 13 |
|                        |                        | 5290 MHz | Maximum                 | N/A | N/A | N/A | N/A  | 14 |
|                        |                        |          | Nominal                 | N/A | N/A | N/A | N/A  | 13 |
|                        | 5500 MHz               | Maximum  | N/A                     | N/A | N/A | N/A | 14   |    |
|                        |                        | Nominal  | N/A                     | N/A | N/A | N/A | 13   |    |
|                        | 5800 MHz               | Maximum  | N/A                     | N/A | N/A | N/A | 14   |    |
|                        |                        | Nominal  | N/A                     | N/A | N/A | N/A | 13   |    |

**4.3.5 Maximum Bluetooth Power**

| Mode / Band              |         | Modulated Average (dBm) |
|--------------------------|---------|-------------------------|
| 1Mbps                    | Maximum | 9.5                     |
|                          | Nominal | 8.5                     |
| EDR                      | Maximum | 7                       |
|                          | Nominal | 6                       |
| 2Mbps                    | Maximum | 5                       |
|                          | Nominal | 4                       |
| LE 1Mbps,<br>125/500Kbps | Maximum | 5                       |
|                          | Nominal | 4                       |

### 4.4 LTE Information

|                    | Item.   | Description   |
|--------------------|---|---|
| Frequency Range    | LTE Band 2 (PCS)  | 1 850.7 MHz~ 1 909.3 MHz  |
|                    | LTE Band 4 (AWS)  | 1 710.7 MHz~ 1 754.3 MHz  |
|                    | LTE Band 5 (Cell)   | 824.7 MHz~ 848.3 MHz  |
|                    | LTE Band 7  | 2 502.5 MHz~ 2 567.5 MHz  |
|                    | LTE Band 12   | 699.7 MHz~ 715.3 MHz  |
|                    | LTE Band 13   | 779.5 MHz~ 784.5 MHz  |
|                    | LTE Band 14   | 790.5 MHz~ 795.5 MHz  |
|                    | LTE Band 25(PCS)  | 1 850.7 MHz~ 1 914.3 MHz  |
|                    | LTE Band 26 (Cell)  | 814.7 MHz~ 848.3 MHz  |
|                    | LTE Band 30   | 2 307.5 MHz ~ 2 312.5 MHz   |
|                    | LTE TDD Band 38   | 2 572.5 MHz ~ 2 617.5 MHz   |
|                    | LTE TDD Band 40   | 2 302.5 MHz ~ 2 397.5 MHz   |
|                    | LTE TDD Band 41   | 2 498.5 MHz ~ 2 687.5 MHz   |
|                    | LTE TDD Band 48   | 3 552.5 MHz ~ 3 697.5 MHz   |
|                    | LTE Band 66 (AWS)   | 1 710.7 MHz ~ 1 779.3 MHz   |
|                    | LTE Band 71   | 665.5 MHz~ 695.5 MHz  |
|                    | NR Band n2 (PCS)  | 1 852.5 MHz~ 1 907.5 MHz  |
|                    | NR Band n5 (Cell)   | 826.5 MHz~ 846.5 MHz  |
|                    | NR Band n25   | 1852.5 MHz ~ 1912.5 MHz   |
|                    | NR Band n41   | 2 506.02 MHz~ 2 679.99 MHz  |
| NR Band n66 (AWS)  | 1 712.5 MHz~ 1 777.5 MHz  |   |
| NR Band n71        | 665.5 MHz - 695.5 MHz   |   |
| NR Band n77        | 3 710 MHz~3 969.99 MHz  |   |
| Channel Bandwidths | LTE Band 2 (PCS)  | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                   |
|                    | LTE Band 4 (AWS)  | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                   |
|                    | LTE Band 5 (Cell)   | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz   |
|                    | LTE Band 7  | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | LTE Band 12   | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz   |
|                    | LTE Band 13   | 5 MHz, 10 MHz   |
|                    | LTE Band 14   | 5 MHz, 10 MHz   |
|                    | LTE Band 25 (PCS)   | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                   |
|                    | LTE Band 26 (Cell)  | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz   |
|                    | LTE Band 30   | 5 MHz, 10 MHz   |
|                    | LTE TDD Band 38   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | LTE TDD Band 40   | 5 MHz, 10 MHz   |
|                    | LTE TDD Band 41   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | LTE TDD Band 48   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | LTE Band 66 (AWS)   | 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz                                   |
|                    | LTE Band 71   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | NR Band n2 (PCS)  | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | NR Band n5 (Cell)   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | NR Band n25   | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |
|                    | NR Band n41   | 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 80 MHz, 90 MHz, 100 MHz |
| NR Band n66(AWS)   | 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz                                   |   |
| NR Band n71        | 5 MHz, 10 MHz, 15 MHz, 20 MHz   |   |
| NR Band n77        | 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 80 MHz, 90 MHz, 100 MHz |   |

| Ch. No.& Freq.(MHz) | Low     | Mid             | High            |                 |
|---------------------|---------|-----------------|-----------------|-----------------|
| LTE Band 2 (PCS)    | 1.4 MHz | 1 850.7 (18607) | 1 880.0 (18900) | 1 909.3 (19193) |
|                     | 3 MHz   | 1 851.5 (18615) | 1 880.0 (18900) | 1 908.5 (19185) |
|                     | 5 MHz   | 1 852.5 (18625) | 1 880.0 (18900) | 1 907.5 (19175) |
|                     | 10 MHz  | 1 855.0 (18650) | 1 880.0 (18900) | 1 905.0 (19150) |
|                     | 15 MHz  | 1 857.5 (18675) | 1 880.0 (18900) | 1 902.5 (19125) |
|                     | 20 MHz  | 1 860.0 (18700) | 1 880.0 (18900) | 1 900.0 (19100) |
| LTE Band 4 (AWS)    | 1.4 MHz | 1 710.7 (19957) | 1 732.5 (20175) | 1 754.3 (20393) |
|                     | 3 MHz   | 1 711.5 (19965) | 1 732.5 (20175) | 1 753.5 (20385) |
|                     | 5 MHz   | 1 712.5 (19975) | 1 732.5 (20175) | 1 752.5 (20375) |
|                     | 10 MHz  | 1 715.0 (20000) | 1 732.5 (20175) | 1 750.0 (20350) |
|                     | 15 MHz  | 1 717.5 (20025) | 1 732.5 (20175) | 1 747.5 (20325) |
|                     | 20 MHz  | 1 720.0 (20050) | 1 732.5 (20175) | 1 745.0 (20300) |
| LTE Band 5 (Cell)   | 1.4 MHz | 824.7 (20407)   | 836.5 (20525)   | 848.3 (20643)   |
|                     | 3 MHz   | 825.5 (20415)   | 836.5 (20525)   | 847.5 (20635)   |
|                     | 5 MHz   | 826.5 (20425)   | 836.5 (20525)   | 846.5 (20625)   |
|                     | 10 MHz  | 829.0 (20450)   | 836.5 (20525)   | 844.0 (20600)   |
| LTE Band 7          | 5 MHz   | 2502.5 (20775)  | 2535 (21100)    | 2567.5 (21425)  |
|                     | 10 MHz  | 2505 (20800)    | 2535 (21100)    | 2565 (21400)    |
|                     | 15 MHz  | 2507.5 (20825)  | 2535 (21100)    | 2562.5 (21375)  |
|                     | 20 MHz  | 2510 (20850)    | 2535 (21100)    | 2560 (21350)    |
| LTE Band 12         | 1.4 MHz | 699.7 (23017)   | 707.5 (23095)   | 715.3 (23173)   |
|                     | 3 MHz   | 700.5 (23025)   | 707.5 (23095)   | 714.5 (23165)   |
|                     | 5 MHz   | 701.5 (23035)   | 707.5 (23095)   | 713.5 (23155)   |
|                     | 10 MHz  | 704.0 (23060)   | 707.5 (23095)   | 711.0 (23130)   |
| LTE Band 13         | 5 MHz   | 779.5 (23205)   | 782 (23230)     | 784.5 (23255)   |
|                     | 10 MHz  |                 | 782 (23230)     |                 |
| LTE Band 14         | 5 MHz   | 790.5 ( 23305)  | 793 (23330)     | 795.5 (23355)   |
|                     | 10 MHz  |                 | 793 (23330)     |                 |
| LTE Band 25(PCS)    | 1.4 MHz | 1 850.7 (26047) | 1 882.5 (26365) | 1 914.3 (26683) |
|                     | 3 MHz   | 1 851.5 (26055) | 1 882.5 (26365) | 1 913.5 (26675) |
|                     | 5 MHz   | 1 852.5 (26065) | 1 882.5 (26365) | 1 912.5 (26665) |
|                     | 10 MHz  | 1 855 (26090)   | 1 882.5 (26365) | 1 910 (26640)   |
|                     | 15 MHz  | 1 857.5 (26115) | 1 882.5 (26365) | 1 907.5 (26615) |
|                     | 20 MHz  | 1 860 (26140)   | 1 882.5 (26365) | 1 905 (26590)   |
| LTE Band 26 (Cell)  | 1.4 MHz | 814.7 (26697)   | 831.5 (26865)   | 848.3 (27033)   |
|                     | 3 MHz   | 815.5 (26705)   | 831.5 (26865)   | 847.5 (27025)   |
|                     | 5 MHz   | 816.5 (26715)   | 831.5 (26865)   | 846.5 (27015)   |
|                     | 10 MHz  | 819.0 (26740)   | 831.5 (26865)   | 844.0 (26990)   |
|                     | 15 MHz  | 821.5 (26765)   | 831.5 (26865)   | 841.5 (26965)   |
| LTE Band 30         | 5 MHz   | 2 307.5 (27685) | 2 310 (27710)   | 2 312.5 (27735) |
|                     | 10 MHz  |                 | 2 310 (27710)   |                 |
| LTE TDD Band 38     | 5 MHz   | 2572.5 (37775)  | 2 595 (38000)   | 2617.5 (38225)  |
|                     | 10 MHz  | 2575 (37800)    | 2 595 (38000)   | 2615 (38200)    |
|                     | 15 MHz  | 2577.5 (37825)  | 2 595 (38000)   | 2612.5 (38175)  |
|                     | 20 MHz  | 2580 (37850)    | 2 595 (38000)   | 2610 (38150)    |
| LTE TDD Band 40     | 5 MHz   | 2 302.5 (38675) | 2 350 (39150)   | 2 397.5 (39625) |
|                     | 10 MHz  | 2 305 (38700)   | 2 350 (39150)   | 2 395 (39600)   |



| Ch. No.& Freq.(MHz)  | Low  |                  | Mid            |                | High           |                  |
|--|--|------------------|----------------|----------------|----------------|------------------|
| LTE Band 66 (AWS)  | 1.4 MHz  | 1 710.7 (131979) |                | 1 745 (132322) |                | 1 779.3 (132665) |
|  | 3 MHz  | 1 711.5 (131987) |                | 1 745 (132322) |                | 1 778.5 (132657) |
|  | 5 MHz  | 1 712.5 (131997) |                | 1 745 (132322) |                | 1 777.5 (132647) |
|  | 10 MHz   | 1 715.0 (132022) |                | 1 745 (132322) |                | 1 775.0 (132622) |
|  | 15 MHz   | 1 717.5 (132047) |                | 1 745 (132322) |                | 1 772.5 (132597) |
|  | 20 MHz   | 1 720.0 (132072) |                | 1 745 (132322) |                | 1 770.0 (132572) |
| LTE Band 71  | 5 MHz  | 665.5 (133147)   |                | 680.5 (133297) |                | 695.5 (133447)   |
|  | 10 MHz   | 668 (133172)     |                | 680.5 (133297) |                | 693 (133422)     |
|  | 15 MHz   | 670.5 (133197)   |                | 680.5 (133297) |                | 690.5 (133397)   |
|  | 20 MHz   | 673 (133222)     |                | 680.5 (133297) |                | 688 (133372)     |
| LTE TDD Band 41  | 5 MHz  | 2498.5(39675)    | 2545.8(40148)  | 2593.0(40620)  | 2640.3(41093)  | 2687.5(41565)    |
|  | 10 MHz   | 2501.0(39700)    | 2547.0(40160)  | 2593.0(40620)  | 2639.0(41080)  | 2685.0(41540)    |
|  | 15 MHz   | 2503.5(39725)    | 2548.3(41073)  | 2593.0(40620)  | 2637.8(41068)  | 2682.5(41515)    |
|  | 20 MHz   | 2506.0(39750)    | 2549.5(40185)  | 2593.0(40620)  | 2636.5(41055)  | 2680.0(41490)    |
| LTE TDD Band 48  | 5 MHz  | 3 552.5(55265)   | 3 600.8(55748) | 3 649.2(56232) | 3 697.5(56715) |                  |
|  | 10 MHz   | 3 555(55290)     | 3 601.7(55757) | 3 648.3(56223) | 3 695(56690)   |                  |
|  | 15 MHz   | 3 557.5(55315)   | 3 602.5(55765) | 3 647.5(56215) | 3 692.5(56665) |                  |
|  | 20 MHz   | 3 560(55340)     | 3 603.3(55773) | 3 646.7(56207) | 3 690(56640)   |                  |
| UE Category  | LTE Rel.15, DL: Category 18, UL: Category 13   |                  |                |                |                |                  |
| HPUE Power Class   | LTE TDD 41 Power Class 3 :(Duty: 63.3%) Power Class 2 : (Duty:43.3%)   |                  |                |                |                |                  |
| Modulations Supported in UL                                      | QPSK, 16QAM, 64QAM   |                  |                |                |                |                  |
| LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3 | Yes  |                  |                |                |                |                  |
| A-MPR disabled for SAR Testing.                                  | Yes  |                  |                |                |                |                  |
| LTE Carrier Aggregation  | This device supports Inter-band & Intra-band DL-link Carrier aggregations and intra-band UL-link Carrier aggregations<br>Detailed information of Down-Link CA are included in the Appendix.I   |                  |                |                |                |                  |
| LTE Release information  | This device does not support full CA features on 3GPP Release 15. It supports carrieraggregation, downlink MIMO. All other uplink communications are identical to te release 8 specifications. The following LTE Release 15 Features are not supported: Relay, Hetnet, Enhanced eICI, MDH, cross-carrier Scheduling, Enhanced SC-FDMA. |                  |                |                |                |                  |

| Ch. No. & Freq. (MHz) |               | Low / Low-Mid    |                  | Mid              |                  | Mid-High / High  |                  |
|-----------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|
| NR Band n2<br>(PCS)   | 5 MHz         | 1852.5 (370500)  |                  | 1880 (376000)    |                  | 1907.5 (381500)  |                  |
|                       | 10 MHz        | 1855 (371000)    |                  | 1880 (376000)    |                  | 1905 (381000)    |                  |
|                       | 15 MHz        | 1857.5 (371500)  |                  | 1880 (376000)    |                  | 1902.5 (380500)  |                  |
|                       | 20 MHz        | 1860 (372000)    |                  | 1880 (376000)    |                  | 1900 (380000)    |                  |
| NR Band n5<br>(Cell)  | 5 MHz         | 826.5 (165300)   |                  | 836.5 (167300)   |                  | 846.5 (169300)   |                  |
|                       | 10 MHz        | 829 (165800)     |                  |                  |                  | 844 (168800)     |                  |
|                       | 15 MHz        | 831.5 (166300)   |                  | 836.5 (167300)   |                  | 841.5 (168300)   |                  |
|                       | 20 MHz        | 834 (166800)     |                  | 836.5 (167300)   |                  | 839 (167800)     |                  |
| NR Band n25           | 5 MHz         | 1852.5(370500)   |                  | 1882.5(376500)   |                  | 1912.5(382500)   |                  |
|                       | 10 MHz        | 1855(371000)     |                  | 1882.5(376500)   |                  | 1910(382000)     |                  |
|                       | 15 MHz        | 1857.5(371500)   |                  | 1882.5(376500)   |                  | 1907.5(381500)   |                  |
|                       | 20 MHz        | 1860(372000)     |                  | 1882.5(376500)   |                  | 1905(381000)     |                  |
| NR Band n71           | 5 MHz         | 665.5 (133100)   |                  | 680.5 (136100)   |                  | 695.5 (139100)   |                  |
|                       | 10 MHz        | 668 (133600)     |                  | 680.5 (136100)   |                  | 693 (138600)     |                  |
|                       | 15 MHz        | 670.5 (134100)   |                  |                  |                  | 690.5 (138100)   |                  |
|                       | 20 MHz        | 673 (134600)     |                  | 680.5 (136100)   |                  | 688 (137600)     |                  |
| NR Band n66(AWS)      | 5 MHz         | 1712.5 (342500)  | 1734.1 (346820)  | 1755.8 (351160)  |                  | 1777.5 (355500)  |                  |
|                       | 10 MHz        | 1715 (343000)    | 1735 (347000)    | 1755 (351000)    |                  | 1775 (355000)    |                  |
|                       | 15 MHz        | 1717.5 (343500)  | 1735.8 (347160)  | 1754.1 (350820)  |                  | 1772.5 (354500)  |                  |
|                       | 20 MHz        | 1720 (344000)    | 1745 (349000)    |                  |                  | 1770 (354000)    |                  |
|                       | 25 MHz        | 1722.5 (344500)  | 1745 (349000)    |                  |                  | 1767.5 (353500)  |                  |
|                       | 30 MHz        | 1725 (345000)    |                  |                  |                  | 1765 (353000)    |                  |
|                       | 40 MHz        |                  | 1745 (349000)    |                  |                  |                  |                  |
| NR Band n41           | 10 MHz        | 2501.01 (500202) | 2547 (509400)    | 2592.99 (518598) | 2639.01 (527802) | 2685 (53700)     |                  |
|                       | 15 MHz        | 2503.5 (500700)  | 2548.32 (509664) | 2592.99 (518598) | 2637.81 (527562) | 2682.48 (536496) |                  |
|                       | 20 MHz        | 2506.02 (501204) | 2549.49 (509898) | 2592.99 (518598) | 2636.49 (527298) | 2679.99 (535998) |                  |
|                       | 40 MHz        | 2516.01 (503202) | 2567.34 (513468) |                  | 2618.67 (523734) | 2670 (534000)    |                  |
|                       | 50 MHz        | 2521.02 (504204) |                  | 2592.99 (518598) |                  | 2664.99 (532998) |                  |
|                       | 60 MHz        | 2526 (505200)    |                  | 2592.99 (518598) |                  | 2659.98 (531996) |                  |
|                       | 80 MHz        | 2536.02 (507204) |                  |                  |                  | 2649.99 (529998) |                  |
|                       | 90 MHz        | 2541 (508200)    |                  |                  |                  | 2644.98 (528996) |                  |
|                       | 100 MHz       |                  |                  | 2592.99 (518598) |                  |                  |                  |
| NR Band n77           | 10 MHz        | 3705 (647000)    | 3759 (650600)    | 3813 (654200)    | 3867 (657800)    | 3921 (661400)    | 3975 (665000)    |
|                       | 15 MHz        | 3707.5 (647166)  | 3760.5 (650700)  | 3813.49 (654232) | 3866.5 (657766)  | 3919.5 (661300)  | 3972.49 (664832) |
|                       | 20 MHz        | 3710 (647333)    | 3762 (650800)    | 3814 (654266)    | 3866 (657733)    | 3918 (661200)    | 3969.99 (664666) |
|                       | 25 MHz        | 3712.5 (647500)  | 3763.5 (650900)  | 3814.5 (654300)  | 3865.5 (657700)  | 3916.5 (661100)  | 3967.5 (664500)  |
|                       | 30 MHz        | 3714.99(647666)  | 3765 (651000)    | 3815.01 (654334) | 3864.99 (657666) | 3915 (661000)    | 3965.01 (664334) |
|                       | 40 MHz        | 3720 (648000)    | 3768 (651200)    | 3816 (654400)    | 3864 (657600)    | 3912 (660800)    | 3960 (664000)    |
|                       | 50 MHz        | 3725 (648334)    | 3782 (652134)    | 3839 (655934)    |                  | 3896 (659800)    | 3955 (663666)    |
|                       | 60 MHz        | 3730 (648666)    | 3730 (648666)    | 3840 (656000)    |                  | 3895 (659666)    | 3950 (663334)    |
|                       | 80 MHz        | 3740 (662666)    | 3807 (653800)    |                  |                  | 3873 (658200)    | 3940 (662666)    |
|                       | 90 MHz        | 3745 (649666)    |                  | 3840 (656000)    |                  | 3935 (662334)    |                  |
| 100 MHz               | 3750 (650000) |                  | 3840 (656000)    |                  | 3930 (662000)    |                  |                  |

| Item.  | Description   |
|--|---|
| NR Band n2/n5/n25/n48/n66/n71 SCS  | 15 kHz  |
| NR Band n41/n77 SCS  | 30 kHz  |
| 3GPP Rel.  | Rel.16  |
| A-MPR disabled for SAR Testing.  | Yes   |
| 5G NR UL/DL FR1  | CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM<br>DFT-s-OFDM: $\pi/2$ -BPSK(UL Only), QPSK, 16QAM, 64QAM, 256QAM |
| Non-Standalone & StandAlone are supported.<br>More detailed specifications of the 5G NR bands are contained in the Technical description document. |   |
| EN-C Carrier Aggregation Possible Combinations   | The technical description includes all the possible carrier aggregation combinations                  |
| LTE Anchor Bands for NR Bands n77  | LTE B2/B5/B13/B66   |
| LTE Anchor Bands for NR Band n5  | LTE B2/B30/B48/B66  |
| LTE Anchor Bands for NR Band n41   | LTE B2/B12/B25/B66  |
| LTE Anchor Bands for NR Band n71   | LTE B2/B66/B7   |
| LTE Anchor Bands for NR Band n2  | LTE B5/B12/B13/B14/48   |
| LTE Anchor Bands for NR Band n25   | LTE B12   |
| LTE Anchor Bands for NR Band n 66  | LTE B5/B12/B13/B14/B48  |

### 4.5 DUT Antenna Locations

The overall dimensions of this device are > 9 X 5 cm. A diagram showing device antenna can be found in SAR\_setup\_photos. Since the diagonal dimension of this device is > 160 mm and < 200 mm, it is considered a “phablet”.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering. Therefore, SAR test was performed for additional simultaneous transmissions.

Head and Bluetooth Tethering SAR were evaluated for BT BR tethering applications.

| Mode               | Antenna     | Rear | Front | Left | Right | Bottom | Top |
|--------------------|-------------|------|-------|------|-------|--------|-----|
| EVDO BC10 (§90S)   | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| EVDO BC0 (§22H)    | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| PCS EVDO           | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| GSM/GPRS/EDGE 850  | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| GSM/GPRS/EDGE 1900 | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| UMTS 850           | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| UMTS 1700          | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| UMTS 1900          | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 2 (PCS)   | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 4 (AWS)   | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 5 (Cell)  | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 7         | MainAnt.#2  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE Band 12        | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 13        | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 14        | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 25        | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 26        | MainAnt.#1  | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 30        | MainAnt.#2  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE TDD Band 38    | MainAnt.#2  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE TDD Band 40    | MainAnt.#2  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE TDD Band 41    | MainAnt.#2  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE TDD Band 48    | SUBAnt. #4  | Yes  | Yes   | Yes  | No    | No     | Yes |
| LTE Band 66 (AWS)  | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| LTE Band 71        | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n2         | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n5         | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n25        | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n41 (PC3)  | SUBAnt.#2   | Yes  | Yes   | Yes  | No    | No     | Yes |
| NR Band n41 (PC2)  | SUBAnt.#2   | Yes  | Yes   | Yes  | No    | No     | Yes |
| NR Band n66        | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n71        | SUBAnt.#1   | Yes  | Yes   | Yes  | Yes   | Yes    | No  |
| NR Band n77        | SUB Ant. #4 | Yes  | Yes   | Yes  | No    | No     | Yes |
| 2.4 GHz WLAN       | WiFi/BT     | Yes  | Yes   | Yes  | No    | No     | Yes |
| 5 GHz WLAN         | WiFi/BT     | Yes  | Yes   | Yes  | No    | No     | Yes |
| Bluetooth          | WiFi/BT     | Yes  | Yes   | Yes  | No    | No     | Yes |

Particular EUT edges were not required to be evaluated for Bluetooth Tethering and Hotspot SAR if the edges were > 25 mm from the transmitting antenna according to FCC KDB 941225 D06v02r01 on page 2.

The distance between the transmit antennas and the edges of the device are included in the filing.

**- Note: All test configurations are based on front view position.**

#### **4.6 Near Field Communications (NFC) Antenna**

This EUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in SAR \_ Setup\_ photos.

### 4.7 SAR Summation Scenario

According to FCC KDB 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown below paths and are mode in same rectangle to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB 447498 D01v06.

| Simultaneous Transmission Scenarios   |       |           |         |           |
|---------------------------------------|-------|-----------|---------|-----------|
| Applicable Combination                | Head  | Body-Worn | Hotspot | Extremity |
| 1x CDMA Voice+ 2.4 GHz WiFi           | Yes   | Yes       | N/A     | Yes       |
| 1x CDMA Voice+ 5 GHz WiFi             | Yes   | Yes       | N/A     | Yes       |
| 1x CDMA Voice+ Bluetooth              | Yes^  | Yes       | N/A     | Yes       |
| GSM Voice + 2.4 GHz WiFi              | Yes   | Yes       | N/A     | Yes       |
| GSM Voice + 5 GHz WiFi                | Yes   | Yes       | N/A     | Yes       |
| GSM Voice + Bluetooth                 | Yes^  | Yes       | N/A     | Yes       |
| GSM Voice + 5 GHz WiFi + Bluetooth    | Yes^  | Yes       | N/A     | Yes       |
| CDMA/EVDO + 2.4 GHz WiFi              | Yes*  | Yes       | Yes     | Yes       |
| CDMA/EVDO+ 5 GHz WiFi                 | Yes*  | Yes       | Yes     | Yes       |
| CDMA/EVDO+ Bluetooth                  | Yes*^ | Yes       | Yes^    | Yes       |
| CDMA/EVDO + 5 GHz WiFi + Bluetooth    | Yes*^ | Yes       | Yes^    | Yes       |
| GSMGPRS/EDGE + 2.4 GHz WiFi           | Yes*  | Yes       | Yes     | Yes       |
| GSMGPRS/EDGE + 5 GHz WiFi             | Yes*  | Yes       | Yes     | Yes       |
| GSMGPRS/EDGE + Bluetooth              | Yes*^ | Yes       | Yes^    | Yes       |
| GSMGPRS/EDGE + 5 GHz WiFi + Bluetooth | Yes*^ | Yes       | Yes^    | Yes       |
| UMTS + 2.4 GHz WiFi                   | Yes   | Yes       | Yes     | Yes       |
| UMTS + 5 GHz WiFi                     | Yes   | Yes       | Yes     | Yes       |
| UMTS + Bluetooth                      | Yes^  | Yes       | Yes^    | Yes       |
| UMTS + 5 GHz WiFi + Bluetooth         | Yes^  | Yes       | Yes^    | Yes       |
| LTE + 2.4 GHz WiFi                    | Yes*  | Yes       | Yes     | Yes       |
| LTE + 5 GHz WiFi                      | Yes*  | Yes       | Yes     | Yes       |
| LTE+ Bluetooth                        | Yes^  | Yes       | Yes^    | Yes       |
| LTE + 5 GHz WiFi + Bluetooth          | Yes^  | Yes       | Yes^    | Yes       |
| LTE+ 5G NR                            | Yes   | Yes       | N/A     | Yes       |
| LTE+ 5G NR + 2.4 GHz WiFi             | Yes*  | Yes       | Yes     | Yes       |
| LTE+ 5G NR + 5 GHz WiFi               | Yes*  | Yes       | Yes     | Yes       |
| LTE+ 5G NR+ Bluetooth                 | Yes^  | Yes       | Yes^    | Yes       |
| LTE+ 5G NR + 5 GHz WiFi + Bluetooth   | Yes^  | Yes       | Yes^    | Yes       |
| 5G NR + 2.4 GHz WiFi                  | Yes*  | Yes       | Yes     | Yes       |
| 5G NR + 5 GHz WiFi                    | Yes*  | Yes       | Yes     | Yes       |
| 5G NR+ Bluetooth                      | Yes*^ | Yes       | Yes^    | Yes       |
| 5G NR + 5 GHz WiFi + Bluetooth        | Yes*^ | Yes       | Yes^    | Yes       |

**Note:**

1. Bluetooth cannot transmit simultaneously with 2.4GHz WLAN.
2. 5GHz WLAN can transmit simultaneously with Bluetooth
3. UMTS +WLAN scenario also represents the UMTS Voice/DATA + WLAN hotspot scenario.
4. VoIP is supported in GPRS/EDGE and EVDO RevA.
5. The highest reported SAR for each exposure condition is used for SAR summation purpose.
6. Wi-Fi Hotspot is supported for 2.4 GHz/ UNII-3 of 5 GHz WLAN.
7. Per the manufacture, WIFI Direct is not expected to be used in conjunction with a held to ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table
8. This device supports Bluetooth tethering. ^ BluetoothTetheringis considered.
9. \* Pre-installed VOIP applications areconsidered.
10. This device supports VoLTE/ VoWiFi.
11. LTE + 5G NR FR1 Scenarios are LTE Anchor Bands, LTE Band 2/5/12/13/14/25/30/48/66.
12. NR implementation supports SA and NAS mode. SAR test for NR bands and LTE Anchors bands were performed separately due to limitations in SAR Probe calibration factors. In EN-DC mode, NR operates with the LTE bands shown in the NR FR1 checklist acting as anchor band

## 4.8 SAR Test Considerations

### 4.8.1 WiFi

Since wireless router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WiFi, WiFi Hotspot SAR test and combinations are considered only 2.4 GHz and U-NII-3 for SAR with respected to wireless router configurations according to FCC KDB 941225 D06v02r01.

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg for 1g SAR and is less than 3.0 W/kg for 10g SAR, SAR is not required for U-NII-1 band according to FCC KDB 248227D01v02r02.

This device supports IEEE 802.11 ac with the following features:

- a) Up to 80 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 1Tx Antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported.
- f) Straddle channels are supported.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

#### 4.8.2 Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r05.

Per FCC KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

This Device supports 64QAM on the uplink for LTE Operations. Conducted powers for 64QAM uplink configurations were measured per section 5.1 of FCC KDB 941225 D05v02r05. SAR was not required for 64QAM since the highest maximum output power for 64QAM is  $\leq 0.5$  dB higher than the same configuration in QPSK and the reported SAR for QPSK configuration is  $\leq 1.45$  W/Kg, per section 5.2.4 for FCC KDB941225 D05v02r05.

This device support both Power class 2(PC2) and Power Class 3 (PC3) for LTE band 41. Per May 2017 TCB workshop Notes, SAR test were performed with Power Class 3(given the specific UL/DL Limitations for Power Class 2). Additionally, SAR testing for the power class condition was evaluated for the highest configuration in Power class 3 for each test configuration to confirm the results were scalable linearly.

This device supports LTE capabilities with overlapping transmission frequency ranges. When the supported frequency range of LTE Band falls completely within an LTE Band with a larger transmission frequency range, both LTE bands have the same target power or the band with the larger transmission frequency range has a higher target power and both LTE bands share the same transmission path and signal characteristics, SAR was only tested for the band with the larger transmission frequency range.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB publication 941225 D05A v01r02, SAR for LTE DL CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41 with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).

Because the maximum output for UL CA of LTE 41 is  $\leq$  standalone LTE mode (without CA), SAR for LTE B41 Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is > 1.2 W/kg, .

This device supports downlink 4x4 MIMO operations for some LTE bands. Per Ma 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.



This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

NR implementation supports SA and NAS mode. SAR test for NR bands and LTE Anchors bands were performed separately due to limitations in SAR Probe calibration factors. In EN-DC mode, NR operates with the LTE bands shown in the NR FR1 checklist acting as anchor band

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

Per FCC KDB 941225 D01v03r01, 12.2 kbps RMC is the primary mode and HSPA (HSUPA/HSDPA with RMC) is the secondary mode.

Per FCC KDB 941225 D01v03r01, The SAR test exclusion is applied to the secondary mode by the following equation.

$$\text{Adjusted SAR} = \text{Highest Reported SAR} \times \frac{\text{Secondary Max tune-up (mW)}}{\text{Primary Max tune-up (mW)}} \leq 1.2 \text{ W/kg.}$$

Based on the highest Reported SAR, the secondary mode is not required.

Per FCC KDB 690783 1 D01 SAR Listings on Grants v01r03 and KDB 447498 D01 General RF Exposure Guidance v06 The SAR numbers listed must be consistent with the highest reported test results required by the published RF exposure KDB procedures. When the measured SAR is not at the maximum tune-up tolerance limit or maximum output power allowed for production units, the measured results are scaled to the maximum conditions to determine compliance; the scaled results are referred to as the reported SAR.

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power(mW)}}$$

The Reported SAR for WLAN and Bluetooth

$$\text{The Reported SAR} = \text{The Measured SAR} \times \frac{\text{Maximum tune-up (mW)}}{\text{Measured Conducted Power(mW)}} \times \text{Duty factor}$$

## 5. Introduction

The FCC has adopted the guidelines for evaluating the environmental effects of radio frequency radiation in ET Docket 93-62 on Aug. 6, 1996 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices.

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz. 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York 10017. The measurement procedure described in IEEE/ANSI C95.3-1992 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave is used for guidance in measuring SAR due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in Biological Effects and Exposure Criteria for Radio Frequency Electromagnetic Fields," NCRP Report No. 86 NCRP, 1986, Bethesda, MD 20814. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

### SAR Definition

Specific Absorption Rate (SAR) is defined as the time derivative of the incremental electromagnetic energy ( $dW$ ) absorbed by (dissipated in) an incremental mass ( $dm$ ) contained in a volume element ( $dV$ ) of a given density ( $r$ ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body.

$$SAR = \frac{d}{dt} \left( \frac{dU}{dm} \right)$$

Figure 1. SAR Mathematical Equation  
*SAR is expressed in units of Watts per Kilogram (W/kg)*

Where:

- = conductivity of the tissue-simulant material (S/m)
- = mass density of the tissue-simulant material (kg/m<sup>3</sup>)
- = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relations to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.

## 6. Description of test equipment

### 6.1 SAR MEASUREMENT SETUP

These measurements are performed using the DASY4 automated dosimetric assessment system. It is made by Schmid & Partner Engineering AG (SPEAG) in Zurich, Switzerland. It consists of high precision robotics system (Staubli), robot controller, Pentium III computer, near-field probe, probe alignment sensor, and the generic twin phantom containing the brain equivalent material. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF) (see Figure.2).

A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The PC with Windows XP or Windows 7 is working with SAR Measurement system DASY4 & DASY5, A/D interface card, monitor, mouse, and keyboard. The Staubli Robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card.

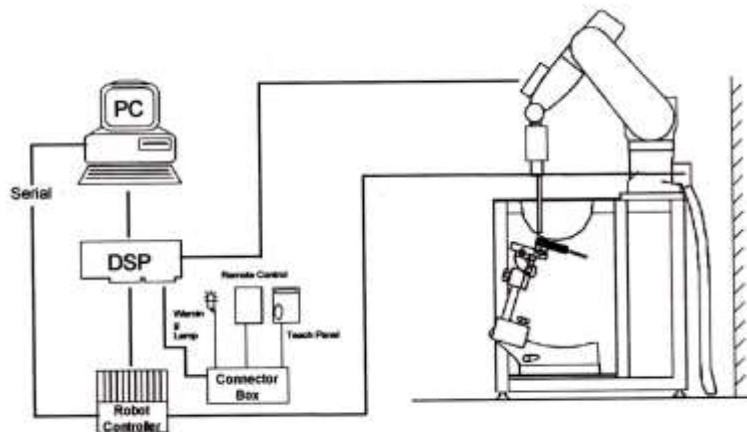


Figure 2. HCT SAR Lab. Test Measurement Set-up

The DAE consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer. The system is described in detail in.

## 7. SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013.

1. The SAR distribution at the exposed side of the head or body was measured at a distance no more than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the DUT's head and body area and the horizontal grid resolution was depending on the FCC KDB 865664 D01v01r04 table 4-1 & IEEE 1528-2013.
2. Based on step, the area of the maximum absorption was determined by sophisticated interpolations routines implemented in DASY software. When an Area Scan has measured all reachable point. DASY system computes the field maximal found in the scanned are, within a range of the maximum. SAR at this fixed point was measured and used as a reference value.
3. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB 865664 D01v01r04 table 4-1 and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (reference from the DASY manual.)
  - a. The data at the surface were extrapolated, since the center of the dipoles is no more than 2.7 mm away from the tip of the probe (it is different from the probe type) and the distance between the surface and the lowest measuring point is 1.2 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
  - b. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed using the 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions. The volume was integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the average.
  - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan. If the value changed by more than 5 %, the SAR evaluation and drift measurements were repeated.

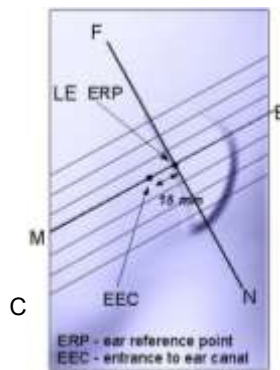
Area scan and zoom scan resolution setting follow KDB 865664 D01v01r04 quoted below.

|  |                                    | ≤ 3 GHz   | > 3 GHz   |  |
|--|------------------------------------|---|---|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface   |                                    | 5±1 mm  | $\delta \cdot \ln(2) \pm 0.5$ mm                      |  |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location  |                                    | 30°±1°  | 20°±1°  |  |
| Maximum area scan Spatial resolution: $\Delta x_{Area}, \Delta y_{Area}$   |                                    | ≤ 2 GHz: ≤15 mm<br>2-3 GHz: ≤12 mm  | 3-4 GHz: ≤12 mm<br>4-6 GHz: ≤10 mm                    |  |
|  |                                    | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |   |  |
| Maximum zoom scan Spatial resolution: $\Delta x_{zoom}, \Delta y_{zoom}$   |                                    | ≤ 2 GHz: ≤8mm<br>2-3 GHz: ≤5mm*   | 3-4 GHz: ≤5 mm*<br>4-6 GHz: ≤4 mm*                    |  |
| Maximum zoom scan Spatial resolution normal to phantom surface   | uniform grid: $\Delta z_{zoom}(n)$ | ≤ 5 mm  | 3-4 GHz: ≤4 mm<br>4-5 GHz: ≤3 mm<br>5-6 GHz: ≤2 mm    |  |
|  | graded grid                        | $\Delta z_{zoom}(1)$ : between 1 <sup>st</sup> two Points closest to phantom surface  | ≤ 4 mm  | 3-4 GHz: ≤3 mm<br>4-5 GHz: ≤2.5 mm<br>5-6 GHz: ≤2 mm |
|  |                                    | $\Delta z_{zoom}(n>1)$ : between subsequent Points  | ≤1.5 · $\Delta z_{zoom}(n-1)$                         |  |
| Minimum zoom scan volume   | x, y, z                            | ≥ 30 mm   | 3-4 GHz: ≥28 mm<br>4-5 GHz: ≥25 mm<br>5-6 GHz: ≥22 mm |  |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.<br>* When zoom scan is required and the reported SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                    |   |   |  |

## 8. Description of Test Position

### 8.1 EAR REFERENCE POINT

Figure 8-2 shows the front, back and side views of the SAM phantom. The center-of-mouth reference point is labeled “M”, the left ear reference point (ERP) is marked “LE”, and the right ERP is marked “RE.” Each ERP is on the B-M (back-mouth) line located 15 mm behind the entrance-to-ear-canal (EEC) point, as shown in Figure 6-1. The Reference Plane is defined as passing through the two ear reference point and point M. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (See Figure 5-1), Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning.



### 8.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The device under test was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point”(see Figure 8-3). The acoustic output was then located at the same level as the center of the ear reference point. The device under test was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 8-2  
Front, back and side views of SAM Twin Phantom

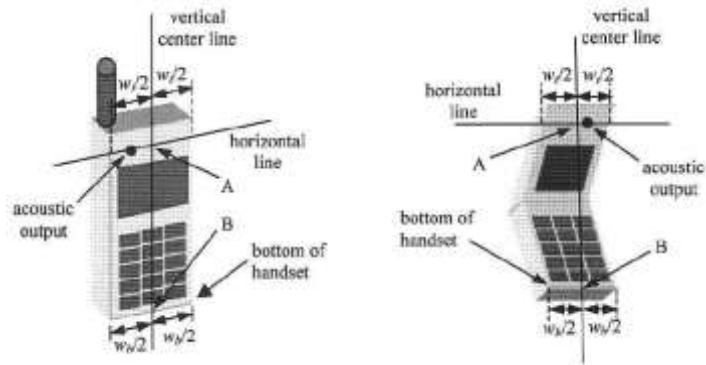


Figure 6-3. Handset vertical and horizontal reference lines

**8.3 Device Holder**

The device holder is made out of low-loss POM material having the following dielectric parameter; relative permittivity  $\epsilon=3$  and loss tangent  $\sigma=0.02$ .

**8.4 Position for cheek**

Figure 6.4. shows cheek or touch position. The reference points for the right ear (RE), left ear (LE), and mouth (M), which establish the Reference Plane for handset positioning, are indicated.

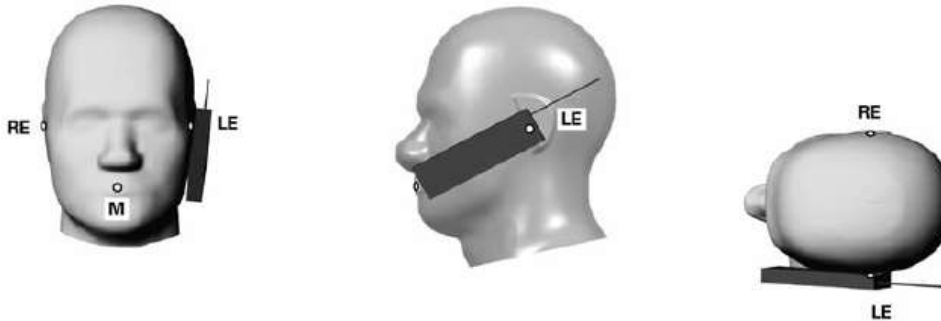


Figure 8.4 Cheek/ Touch position of the wireless device

### 8.5 Definition of the “tilted” position

Figure 6.5. shows tilted position. Place the device in the cheek position. Then while maintaining the orientation of the device, retract the device parallel to the reference plane far enough away from the phantom to enable a rotation of the device by 15°.



Figure 8.5. Tilt 15° position of the wireless device

### 8.6 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-dips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-6). Per FCC KDB Publication 648474 D04v01r03 Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in Body-worn accessories. The Body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for Body-worn accessory SAR compliance, without a headset connected to it.. When the reported SAR for a body- worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.



Figure 8-6 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-dip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.



## 8.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W ≥ 9cm x 5 cm) are based on a composite test separation distance of 10 mm from the front back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the Body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some Body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 publication procedures. The Portable Hotspot feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

## 8.8 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1-g body and 10-g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

For smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear. the phablets procedures outlined in KDB Publication 648474 D04 v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worm accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10-g SAR. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1-g SAR > 1.2 W/kg.

### 8.9 Additional Test Positions due to Proximity Conditions

This device uses a sensor to reduce output powers in extremity (hand-held) use conditions.

When the sensor detects a user is touching the device on or near to the antenna the device reduces the maximum allowed output power. However, the proximity sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, an additional exposure condition is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level.

FCC KDB 616217 D04 v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional exposure conditions. The smallest separation distance determined by the sensor triggering and sensor coverage for each applicable edge, minus 1 mm. was used as the test separation distance for SAR testing. Sensor triggering distance summary data is included in below table.

| Wireless technologies   | Position | §6.2 Triggering Distance | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Phablet SAR |
|---|----------|--------------------------|---------------|-----------------|-------------------------------------|
| <b>WWAN (Main Ant.#1)</b><br>CDMA BC1<br>UMTS B2/B4<br>LTE B2/B4/B13/B14/B25/B66<br>NR B2/B25/B66 | Rear     | 11                       | N/A           | N/A             | 10                                  |
|   | Bottom   | 4                        | N/A           | N/A             | 3                                   |

| Wireless technologies  | Position | §6.2 Triggering Distance | §6.3 Coverage | §6.4 Tilt Angle | Worst case distance for Phablet SAR |
|--|----------|--------------------------|---------------|-----------------|-------------------------------------|
| <b>WWAN (Main Ant.#2)</b><br>NR B41(PC3, PC2)<br>LTE B7/B30/B38/B41/B41 HPUE | Rear     | 13                       | N/A           | N/A             | 12                                  |
|  | Left     | 7                        | N/A           | N/A             | 6                                   |

### 8.10 Bluetooth tethering Configurations

Per May 2017 TCBC Workshop Documents When Bluetooth tethering applies simultaneous transmission SAR needs consideration.

This model allows users to exchange data or media files with other Bluetooth enabled devices using Bluetooth, which means they can connect to other Bluetooth enabled devices via Bluetooth tethering. Therefore, SAR test was performed for additional simultaneous transmissions. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

## 9. RF Exposure Limits

| HUMAN EXPOSURE   | UNCONTROLLED ENVIRONMENT<br>General Population<br>(W/kg) or (mW/g) | CONTROLLED ENVIRONMENT<br>Occupational<br>(W/kg) or (mW/g) |
|--|--|--|
| SPATIAL PEAK SAR *<br>(Partial Body)                   | 1.6  | 8.0  |
| SPATIAL AVERAGE SAR **<br>(Whole Body)                 | 0.08   | 0.4  |
| SPATIAL PEAK SAR ***<br>(Hands / Feet / Ankle / Wrist) | 4.0  | 20.0   |

**NOTES:**

\* The Spatial Peak value of the SAR averaged over any 1 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

\*\* The Spatial Average value of the SAR averaged over the whole-body.

\*\*\* The Spatial Peak value of the SAR averaged over any 10 g of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

**Uncontrolled Environments** are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be mad fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

**Controlled Environments** are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e.as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

## 10. FCC SAR General Measurement Procedures

Power Measurements for licensed transmitters are performed using a base simulator under digital average power.

### 10.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as Reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

### 10.2 3G SAR Test Reduction Procedure

#### 10.2.1 GSM, GPRS AND EDGE

The following procedures may be considered for each frequency band to determine SAR test reduction for devices operating in GSM/GPRS/EDGE modes to demonstrate RF exposure compliance. GSM voice mode transmits with 1 time-slot. GPRS and EDGE may transmit up to 4 time slots in the 8 time-slot frame according to the multi-slot class implemented in a device.

#### 10.2.2 SAR Test Reduction

In FCC KDB 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is  $\leq 0.25$  dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is  $\leq 1.2$  W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested

#### 10.2.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB 941225 D01v03r01-3G SAR Measurement Procedures. The handset was placed into a simulated call using a base station simulator in a shielded chamber. Such test signals offer a consistent means for testing SAR and are recommended for evaluation SAR measurements were taken with a fully charged battery. In order to verify that the device was tested and maintained at full power, this was configured with the base station simulator. The SAR measurement Software calculates a reference point at the start and end of the test to Check for power drifts. If conducted Power deviations of more than 5 % occurred, the tests were repeated.

### 10.3 SAR Measurement Conditions for CDMA2000

The following procedures were performed according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

#### 10.3.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH<sub>0</sub> and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH<sub>0</sub> data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.
5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

**Parameters for Max. Power for RC1**

| Parameter                    | Units        | Value |
|------------------------------|--------------|-------|
| $I_{or}$                     | dBm/1.23 MHz | -104  |
| $\frac{Pilot E_c}{I_{or}}$   | dB           | -7    |
| $\frac{Traffic E_c}{I_{or}}$ | dB           | -7.4  |

**Parameters for Max. Power for RC3**

| Parameter                    | Units        | Value |
|------------------------------|--------------|-------|
| $I_{or}$                     | dBm/1.23 MHz | -86   |
| $\frac{Pilot E_c}{I_{or}}$   | dB           | -7    |
| $\frac{Traffic E_c}{I_{or}}$ | dB           | -7.4  |

#### 10.3.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters

#### 10.3.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH<sub>n</sub>), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH<sub>n</sub>), with FCH at full rate and SCH<sub>0</sub> enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

#### 10.3.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

#### 10.3.4 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

#### 10.3.5 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

## 10.4 SAR Measurement Conditions for UMTS

### 10.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in sec. 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

### 10.4.2 Body SAR measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. the 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCHn configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using and applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2 kbps RMC.

### 10.4.3 SAR Measurements with Rel. 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using and FRC with H-SET 1 in Sub-test and a 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to release 6 HSPA test procedures. 8.4.5 SAR Measurement with Rel.6 HSUPA The 3G SAR test Reduction Procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, Using H-Set 1 and QPSK for FRC and a 12.2kbps RMC configured in Test Loop Mode 1 and Power Control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA. When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

### 10.4.4 SAR Measurements with Rel. 6 HSUPA

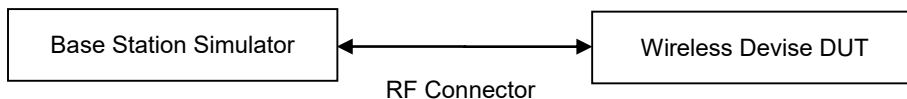
The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

### 10.4.5 DC-HSDPA

SAR is required for Rel.8 DC-HSDPA when SAR is required for Rel.5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in table C.8.1.12 of 3GPP TS34.121-1 to determine SAR test reduction. Primary and secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

#### DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.





## 10.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r05 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluation SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

### 10.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

### 10.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36. 101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

### 10.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

### 10.5.4 Required RB Size and RB offsets for SAR testing

According to FCC KDB 941225 D05v02r05

- a. Per sec 4.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
  - i. The required channel and offset combination with the highest maximum output power is required for SAR.
  - ii. When the reported SAR is  $\leq 0.8$  W/Kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
  - iii. When the reported SAR for a required test channel is  $> 1.45$  W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Sec 4.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Sec 4.2.1.
- c. Per Sec. 4.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is  $< 0.8$  W/kg.
- d. Per Sec. 4.2.4 and 4.3, SAR test for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sec. 4.2.1 through 4.2.3 is less than or equal to 1/2 dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is  $< 1.45$  W/Kg.

### 10.5.5 Downlink Carrier Aggregation

Conducted power measurements with LTE Carrier aggregation (CA) downlink only active are made in accordance to KDB publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. For every supported combination of downlink only carrier aggregation, additional conducted output Powers are measured with downlink carrier aggregation active for the configuration with highest measured maximum conducted power with the downlink carrier aggregation inactive measured among the channel bandwidth, modulation and RB combinations in each frequency band. Per FCC KDB Publication



941225 D05Av01r02, no SAR measurements are required for carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25dB higher than the average output power with downlink only carrier aggregation inactive.

#### **10.5.6 LTE Uplink Carrier Aggregation SAR Measurement Procedure**

This device is specified with the same maximum output power and Tune-up tolerances for intra-band contiguous up-link LTE CA\_41C and the single carrier LTE 41. Both Uplink carrier aggregation and single carrier are operating with Power class 3.

This device support intra-band contiguous UL CA: LTE CA\_41C with a maximum of 20 MHz component carriers For intra-band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that aggregate maximum allowed output power is equivalent to the single carrier scenario.

This device does not have any operating restrictions, Power reduction or variations among the different LTE operating mode configurations on single carrier LTE 41 and intra-band contiguous up-link LTE CA\_41C operations.

The measured power results of single carrier LTE41 and intra-band contiguous up-link LTE CA\_41C satisfy Maximum output power and Tune-up tolerances.

Per Fall 2017 TCB Workshop Notes, the output Power with uplink CA active was measured for the configuration with the Highest Reported SAR with standalone condition.

Because the maximum output for UL CA of LTE 41 is  $\leq$  standalone LTE mode (without CA), SAR for LTE B41 Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is  $> 1.2$  W/kg

**10.5.7 LTE(TDD) Considerations**

According to KDB 941225 D05v02r05, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6. LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

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SAR was tested with the highest transmission duty factor (63.33 %) using Uplink-downlink configuration 0 and Special subframe configuration 6. LTE TDD Band 41 supports 3GPP TS 36.211 section 4.2 for Type 2 Frame and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special sub frame configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

| Special subframe configuration | Normal cyclic prefix in downlink |                                |                                  | Extended cyclic prefix in downlink |                                |                                  |
|--------------------------------|----------------------------------|--------------------------------|----------------------------------|------------------------------------|--------------------------------|----------------------------------|
|                                | DwPTS                            | UpPTS                          |                                  | DwPTS                              | UpPTS                          |                                  |
|                                |                                  | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |                                    | Normal cyclic prefix in uplink | Extended cyclic prefix in uplink |
| 0                              | $6592 \cdot T_s$                 | $2192 \cdot T_s$               | $2560 \cdot T_s$                 | $7680 \cdot T_s$                   | $2192 \cdot T_s$               | $2560 \cdot T_s$                 |
| 1                              | $19760 \cdot T_s$                |                                |                                  | $20480 \cdot T_s$                  |                                |                                  |
| 2                              | $21952 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 3                              | $24144 \cdot T_s$                |                                |                                  | $25600 \cdot T_s$                  |                                |                                  |
| 4                              | $26336 \cdot T_s$                |                                |                                  | $7680 \cdot T_s$                   |                                |                                  |
| 5                              | $6592 \cdot T_s$                 | $4384 \cdot T_s$               | $5120 \cdot T_s$                 | $20480 \cdot T_s$                  | $4384 \cdot T_s$               | $5120 \cdot T_s$                 |
| 6                              | $19760 \cdot T_s$                |                                |                                  | $23040 \cdot T_s$                  |                                |                                  |
| 7                              | $21952 \cdot T_s$                |                                |                                  | $12800 \cdot T_s$                  |                                |                                  |
| 8                              | $24144 \cdot T_s$                |                                |                                  | -                                  |                                |                                  |
| 9                              | $13168 \cdot T_s$                |                                |                                  | -                                  |                                |                                  |

Calculated Duty Cycle – Extended cyclic prefix in uplink x (T<sub>s</sub>) x no of S + no of U

Table 4.2-2: Uplink-downlink configurations.

| Uplink-downlink configuration | Downlink-to-Uplink Switch-point periodicity | Subframe number |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|-----------------|---|---|---|---|---|---|---|---|---|
|                               |   | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0                             | 5 ms  | D               | S | U | U | U | D | S | U | U | U |
| 1                             | 5 ms  | D               | S | U | U | D | D | S | U | U | D |
| 2                             | 5 ms  | D               | S | U | D | D | D | S | U | D | D |
| 3                             | 10 ms                                       | D               | S | U | U | U | D | D | D | D | D |
| 4                             | 10 ms                                       | D               | S | U | U | D | D | D | D | D | D |
| 5                             | 10 ms                                       | D               | S | U | D | D | D | D | D | D | D |
| 6                             | 5 ms  | D               | S | U | U | U | D | S | U | U | D |

Example for calculated Duty Cycle for Uplink-Downlink Configuration 0:  
 Calculated Duty Cycle =  $(5120 \times (1/(15000 \times 2048))) \times 2 + 0.006 / 0.01 = 63.33 \%$

Where

$T_s = 1/(15000 \times 2048)$  seconds

HPUE :

Calculated Duty Cycle for Uplink-Downlink Configuration 1:

Calculated Duty Cycle =  $5120 \times (1/(15000 \times 2048)) \times 2 + 0.004 / 0.01 = 43.33 \%$

### 10.5.8 The Call Box Setup for LTE(TDD)

When you Want to Test for LTE TDD, Please Change Frame Structure TDD and TDD Uplink Downlink Configuration 0 and Special Subframe Configuration 6.

2018/01/08 11:00 Idle( Regist ) Phone-2 W-CDMA Phone-1 LTE  
 <Fundamental Measurement> Output Main Continuous

Parameter Fundamental UE Report

Reference Signal not found UE Power : -21.5 dBm

Power Measurement (Meas. Count : 11/ 20)

|               | Avg.  | Max.  | Min.  | Limit                |
|---------------|-------|-------|-------|----------------------|
| TX Power      | ***** | ***** | ***** | dBm 20.3 to 25.7 dBm |
| Channel Power | ***** | ***** | ***** | dBm                  |

Modulation Analysis View (Meas. Count : 1/ 1)

Common Parameter

Test Parameter TX1 - Max. Power(QPSK/1 RB)

Call Processing On Scenario Normal

Frequency

Frame Structure TDD

Channel Bandwidth FDD Hz

UL Channel & Frequency TDD 20 CH = 2593.000000 MHz

DL Channel & Frequency 40620 CH = 2593.000000 MHz

Operation Band 41

Frequency Separation ( 0 )MHz

Level

Input Level 30.0 dBm

2018/01/08 11:01 Idle( Regist ) Phone-2 W-CDMA Phone-1 LTE  
 <Fundamental Measurement> Output Main Continuous

Parameter Fundamental UE Report

Reference Signal not found UE Power : -21.5 dBm

Power Measurement (Meas. Count : 11/ 20)

|               | Avg.  | Max.  | Min.  | Limit                |
|---------------|-------|-------|-------|----------------------|
| TX Power      | ***** | ***** | ***** | dBm 20.3 to 25.7 dBm |
| Channel Power | ***** | ***** | ***** | dBm                  |

Modulation Analysis View (Meas. Count : 1/ 1)

| MCS Index       | (-)      | (5)      | (0)      | (1,6)   | CFI |
|-----------------|----------|----------|----------|---------|-----|
| MCS Index (-)   | 5 (QPSK) | 5 (QPSK) | 5 (QPSK) | N/A     | 3   |
| MCS Index (5)   | (5)      | (5)      | (5)      | (2216)  | -   |
| MCS Index (0)   | (5)      | (5)      | (5)      | (1884)  | 4   |
| MCS Index (1,6) | (5)      | (5)      | (5)      | (2216)  | 2   |
| CFI             | (-----)  | (--)     | (-----)  | (-----) | 2   |

TDD subframe 0 1 2 3 4 5 6 7 8 9

Uplink Downlink Configuration 0 : ( 5ms) D S U U U D S U U U

Special Subframe Configuration 6

Physical Channel Parameter

|              |        |
|--------------|--------|
| PSS Power    | 0.0 dB |
| SSS Power    | 0.0 dB |
| PBCH Power   | 0.0 dB |
| PCFICH Power | 0.0 dB |
| PHICH Power  | 0.0 dB |

## 10.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

### 10.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR system to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92-96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

### 10.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is  $> 1.2$  W/kg for 1g SAR or  $> 3.0$  W/kg for 10g SAR. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is  $> 1.2$  W/kg for 1g SAR or  $> 3.0$  W/kg for 10g SAR.

### 10.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 GHz – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 GHz – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification.

Unless band gap channels are permanently disabled, SAR must be considered for these channels.

### 10.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is  $\leq 0.4$  W/kg for 1g SAR and  $\leq 1.0$  W/kg for 10g SAR, no additional testing for the remaining test position is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is  $\leq 0.8$  W/kg for 1g SAR and  $\leq 2.0$  W/kg for 10g SAR or all test positions are measured.

#### 10.6.5 2.4 GHz SAR test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is  $\leq 0.8$  W/kg, no further SAR testing is required for 802.11b DSSS is that exposure configuration.
- 2) When the reported SAR is  $> 0.8$  W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is  $> 1.2$  W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is  $> 1.2$  W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed.

#### 10.6.6 OFDM Transmission Mode and SAR Test Channel Selection

For the 2.4 GHz and 5 GHz bands, when the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate and lowest order 802.11 a/g/n/ac mode. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11 ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

#### 10.6.7 Initial Test Configuration Procedure

For OFDM, in both 2.4 GHz and 5 GHz bands, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, and lowest data rate. If the average RF output powers of the highest identical transmission modes are within 0.25 dB of each other, mid channel of the transmission mode with highest average RF output power is the initial test channel. Otherwise, the channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is  $\leq 0.8$  W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements.

#### 10.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position on procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is  $\leq 1.2$  W/kg for 1g SAR and  $\leq 3.0$  W/kg for 10g SAR, no additional SAR tests for the subsequent test configurations are required.

## 11. Output Power Specifications

This device operates using the following maximum output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB publication 447498 D01v06.

### Licensed bands

| Test Description       | Test Procedure Used   |
|------------------------|---|
| Conducted Output Power | - KDB 971168 D01 v03r01 - Section 5.2.4<br>- ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2 |

### Test Overview

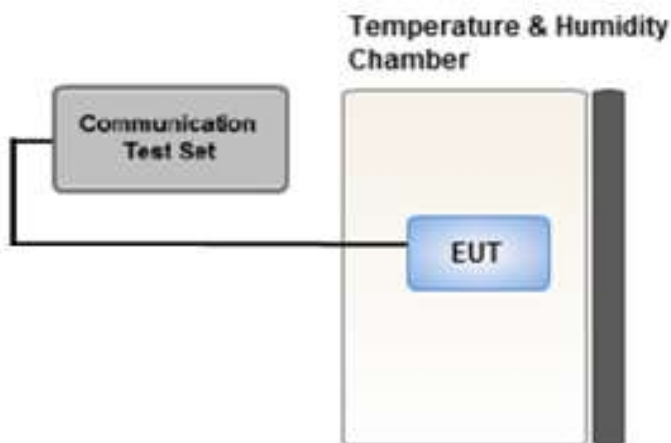
According to ANSI C63.26-2015 Section 5.2.1 when measuring the maximum RF output power from such devices, control over the EUT must be provided either through special test software (provided by manufacturer specifically for compliance testing, but not accessible by an end user) or through use of a base station emulator, communications test set, call box, or similar instrumentation that is capable of establishing a communications link with the EUT to enable control over variable parameters (e.g., output power, OBW, etc.).

In some cases, these instruments also include basic digital spectrum analyzer and/or power meter capabilities that can be utilized to measure the RF output power if the specified detectors and requirements can be realized and the measurement functions have been calibrated.

### Test Procedure

1. The RF port of the EUT was connected to the Communication Tester via an RF cable.
2. Conducted average power was measured using a calibrated Radio Communication Tester.

### Test setup





## 11.1 CDMA

### 11.1.1 CDMA Maximum Conducted Output Power

| Band             | Ch.  | SO2   | SO2   | SO55  | SO55  | TDSO  | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|------------------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
|                  |      | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32  | Rev.0  | Rev.0  | Rev.A  | Rev.A  |
|                  |      | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP   | RTAP   | FETAP  | RETAP  |
| CDMA(BC0)        | 1013 | 24.06 | 24.05 | 24.01 | 24.06 | 24.07 | 24.06  | 24.06  | 24.07  | 24.06  |
|                  | 384  | 23.74 | 23.78 | 23.74 | 23.79 | 23.77 | 23.86  | 23.85  | 23.88  | 23.81  |
|                  | 777  | 23.53 | 23.53 | 23.54 | 23.58 | 23.61 | 23.63  | 23.64  | 23.67  | 23.62  |
| PCS(BC1)         | 25   | 23.51 | 23.54 | 23.52 | 23.55 | 23.55 | 23.46  | 23.46  | 23.51  | 23.46  |
|                  | 600  | 23.26 | 23.30 | 23.27 | 23.30 | 23.34 | 23.31  | 23.34  | 23.35  | 23.31  |
|                  | 1175 | 23.65 | 23.69 | 23.67 | 23.70 | 23.66 | 23.61  | 23.64  | 23.67  | 23.61  |
| Secondary (BC10) | 450  | 24.21 | 24.19 | 24.15 | 24.18 | 24.23 | 24.18  | 24.18  | 24.16  | 24.14  |
|                  | 560  | 24.02 | 24.06 | 24.03 | 24.06 | 24.04 | 24.09  | 24.10  | 24.07  | 24.06  |
|                  | 670  | 24.06 | 24.11 | 24.10 | 24.08 | 24.10 | 24.11  | 24.12  | 24.13  | 24.07  |

CDMA Average Conducted output powers (dBm)

### 11.1.2 CDMA Reduced Conducted Output Power (Hotspot mode activated)

| Band     | Ch.  | SO2   | SO2   | SO55  | SO55  | TDSO  | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|----------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
|          |      | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32  | Rev.0  | Rev.0  | Rev.A  | Rev.A  |
|          |      | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP   | RTAP   | FETAP  | RETAP  |
| PCS(BC1) | 25   | 20.82 | 20.83 | 20.83 | 20.84 | 20.90 | 20.88  | 20.91  | 20.93  | 20.87  |
|          | 600  | 20.86 | 20.80 | 20.76 | 20.82 | 20.88 | 20.84  | 20.83  | 20.85  | 20.81  |
|          | 1175 | 20.95 | 20.96 | 20.95 | 20.97 | 20.94 | 20.76  | 20.78  | 20.81  | 20.87  |

CDMA Average Conducted output powers (dBm)

### 11.1.3 CDMA Reduced Conducted Output Power (Grip/ Earjack back off Activated)

| Band     | Ch.  | SO2   | SO2   | SO55  | SO55  | TDSO  | 1xEvDO | 1xEvDO | 1xEvDO | 1xEvDO |
|----------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
|          |      | RC1/1 | RC3/3 | RC1/1 | RC3/3 | SO32  | Rev.0  | Rev.0  | Rev.A  | Rev.A  |
|          |      | (dBm) | (dBm) | (dBm) | (dBm) | (dBm) | FTAP   | RTAP   | FETAP  | RETAP  |
| PCS(BC1) | 25   | 20.78 | 20.85 | 20.51 | 20.59 | 20.91 | 20.86  | 20.62  | 20.63  | 20.60  |
|          | 600  | 20.74 | 20.81 | 20.49 | 20.56 | 20.88 | 20.82  | 20.56  | 20.57  | 20.54  |
|          | 1175 | 20.62 | 20.69 | 20.62 | 20.70 | 20.97 | 20.83  | 20.56  | 20.57  | 20.57  |

CDMA Average Conducted output powers (dBm)

## 11.2 GSM

### 11.2.1 GSM Maximum Conducted Output Power

| Mode / Band |     | Voice        | GPRS(GMSK) Data – CS1(dBm) |                      |                      |                      | EDGE Data (dBm)      |                      |                      |                      |
|-------------|-----|--------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|             |     | GSM          | GPRS<br>1 TX<br>Slot       | GPRS<br>2 TX<br>Slot | GPRS<br>3 TX<br>Slot | GPRS<br>4 TX<br>Slot | EDGE<br>1 TX<br>Slot | EDGE<br>2 TX<br>Slot | EDGE<br>3 TX<br>Slot | EDGE<br>4 TX<br>Slot |
| Maximum     |     | <b>34.00</b> | <b>34.00</b>               | <b>33.00</b>         | <b>31.00</b>         | <b>30.00</b>         | <b>28.50</b>         | <b>27.50</b>         | <b>25.00</b>         | <b>24.50</b>         |
| Nominal     |     | <b>33.00</b> | <b>33.00</b>               | <b>32.00</b>         | <b>30.00</b>         | <b>29.00</b>         | <b>27.50</b>         | <b>26.50</b>         | <b>24.00</b>         | <b>23.50</b>         |
| GSM 850     | 128 | 32.77        | 32.78                      | 31.79                | 29.83                | 29.01                | 27.56                | 26.36                | 23.94                | 22.99                |
|             | 190 | 32.57        | 32.56                      | 31.59                | 29.53                | 28.71                | 27.28                | 26.08                | 23.87                | 22.72                |
|             | 251 | 32.50        | 32.50                      | 31.55                | 29.50                | 28.67                | 27.14                | 25.94                | 23.73                | 22.61                |
| Maximum     |     | <b>31.00</b> | <b>31.00</b>               | <b>30.00</b>         | <b>28.00</b>         | <b>27.00</b>         | <b>27.00</b>         | <b>26.00</b>         | <b>24.00</b>         | <b>23.00</b>         |
| Nominal     |     | <b>30.00</b> | <b>30.00</b>               | <b>29.00</b>         | <b>27.00</b>         | <b>26.00</b>         | <b>26.00</b>         | <b>25.00</b>         | <b>23.00</b>         | <b>22.00</b>         |
| GSM 1900    | 512 | 29.62        | 29.61                      | 28.70                | 26.71                | 25.96                | 25.4                 | 24.41                | 22.50                | 21.31                |
|             | 661 | 29.43        | 29.37                      | 28.40                | 26.39                | 25.66                | 25.40                | 24.36                | 22.34                | 21.33                |
|             | 810 | 29.54        | 29.52                      | 28.61                | 26.65                | 25.92                | 25.46                | 24.43                | 22.43                | 21.29                |

GSM Conducted output powers (Burst-Average)

| Mode / Band |     | Voice        | GPRS(GMSK) Data – CS1(dBm) |                      |                      |                      | EDGE Data (dBm)      |                      |                      |                      |
|-------------|-----|--------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|             |     | GSM          | GPRS<br>1 TX<br>Slot       | GPRS<br>2 TX<br>Slot | GPRS<br>3 TX<br>Slot | GPRS<br>4 TX<br>Slot | EDGE<br>1 TX<br>Slot | EDGE<br>2 TX<br>Slot | EDGE<br>3 TX<br>Slot | EDGE<br>4 TX<br>Slot |
| Maximum     |     | <b>24.97</b> | <b>24.97</b>               | <b>26.98</b>         | <b>26.74</b>         | <b>26.99</b>         | <b>19.47</b>         | <b>21.48</b>         | <b>20.74</b>         | <b>21.49</b>         |
| Nominal     |     | <b>23.97</b> | <b>23.97</b>               | <b>25.98</b>         | <b>25.74</b>         | <b>25.99</b>         | <b>18.47</b>         | <b>20.48</b>         | <b>19.74</b>         | <b>20.49</b>         |
| GSM 850     | 128 | 23.74        | 23.75                      | 25.77                | 25.57                | 26.00                | 18.53                | 20.34                | 19.68                | 19.98                |
|             | 190 | 23.54        | 23.53                      | 25.57                | 25.27                | 25.70                | 18.25                | 20.06                | 19.61                | 19.71                |
|             | 251 | 23.47        | 23.47                      | 25.53                | 25.24                | 25.66                | 18.11                | 19.92                | 19.47                | 19.60                |
| Maximum     |     | <b>21.97</b> | <b>21.97</b>               | <b>23.98</b>         | <b>23.74</b>         | <b>23.99</b>         | <b>17.97</b>         | <b>19.98</b>         | <b>19.74</b>         | <b>19.99</b>         |
| Nominal     |     | <b>20.97</b> | <b>20.97</b>               | <b>22.98</b>         | <b>22.74</b>         | <b>22.99</b>         | <b>16.97</b>         | <b>18.98</b>         | <b>18.74</b>         | <b>18.99</b>         |
| GSM 1900    | 512 | 20.59        | 20.58                      | 22.68                | 22.45                | 22.95                | 16.37                | 18.39                | 18.24                | 18.30                |
|             | 661 | 20.40        | 20.34                      | 22.38                | 22.13                | 22.65                | 16.37                | 18.34                | 18.08                | 18.32                |
|             | 810 | 20.51        | 20.49                      | 22.59                | 22.39                | 22.91                | 16.43                | 18.41                | 18.17                | 18.28                |

GSM Conducted output powers (Frame-Average)



**11.2.1 Conducted Output Power (Grip back off Activated)**

| Mode / Band |     | Voice       | GPRS(GMSK) Data – CS1(dBm) |                      |                      |                      | EDGE Data (dBm)      |                      |                      |                      |
|-------------|-----|-------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|             |     | GSM         | GPRS<br>1 TX<br>Slot       | GPRS<br>2 TX<br>Slot | GPRS<br>3 TX<br>Slot | GPRS<br>4 TX<br>Slot | EDGE<br>1 TX<br>Slot | EDGE<br>2 TX<br>Slot | EDGE<br>3 TX<br>Slot | EDGE<br>4 TX<br>Slot |
| Maximum     |     | <b>27.0</b> | <b>27.0</b>                | <b>28.0</b>          | <b>23.0</b>          | <b>21.0</b>          | <b>23.0</b>          | <b>21.0</b>          | <b>19.0</b>          | <b>17.0</b>          |
| Nominal     |     | <b>26.0</b> | <b>26.0</b>                | <b>24.0</b>          | <b>22.0</b>          | <b>20.0</b>          | <b>22.0</b>          | <b>20.0</b>          | <b>18.0</b>          | <b>16.0</b>          |
| GSM 1900    | 512 | 25.74       | 25.74                      | 24.54                | 22.29                | 20.59                | 21.45                | 20.19                | 18.03                | 16.72                |
|             | 661 | 25.63       | 25.63                      | 24.46                | 22.26                | 20.54                | 21.28                | 20.08                | 17.91                | 16.62                |
|             | 810 | 25.59       | 25.59                      | 24.49                | 22.33                | 20.56                | 21.15                | 19.98                | 17.88                | 16.51                |

GSM Conducted output powers (Burst-Average)

| Mode / Band |     | Voice        | GPRS(GMSK) Data – CS1(dBm) |                      |                      |                      | EDGE Data (dBm)      |                      |                      |                      |
|-------------|-----|--------------|----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|             |     | GSM          | GPRS<br>1 TX<br>Slot       | GPRS<br>2 TX<br>Slot | GPRS<br>3 TX<br>Slot | GPRS<br>4 TX<br>Slot | EDGE<br>1 TX<br>Slot | EDGE<br>2 TX<br>Slot | EDGE<br>3 TX<br>Slot | EDGE<br>4 TX<br>Slot |
| Maximum     |     | <b>17.97</b> | <b>17.97</b>               | <b>21.98</b>         | <b>18.74</b>         | <b>17.99</b>         | <b>13.97</b>         | <b>14.98</b>         | <b>14.74</b>         | <b>13.99</b>         |
| Nominal     |     | <b>16.97</b> | <b>16.97</b>               | <b>17.98</b>         | <b>17.74</b>         | <b>16.99</b>         | <b>12.97</b>         | <b>13.98</b>         | <b>13.74</b>         | <b>12.99</b>         |
| GSM 1900    | 512 | 16.71        | 16.71                      | 18.52                | 18.03                | 17.58                | 12.42                | 14.17                | 13.77                | 13.71                |
|             | 661 | 16.60        | 16.60                      | 18.44                | 18.00                | 17.53                | 12.25                | 14.06                | 13.65                | 13.61                |
|             | 810 | 16.56        | 16.56                      | 18.47                | 18.07                | 17.55                | 12.12                | 13.96                | 13.62                | 13.50                |

GSM Conducted output powers (Frame-Average)

**Note:**

Time slot average factor is as follows:

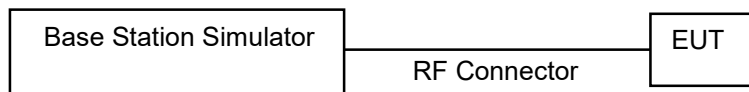
- 1 Tx slot = 9.03 dB, Frame-Average output power = Burst-Average output power – 9.03 dB
- 2 Tx slot = 6.02 dB, Frame-Average output power = Burst-Average output power – 6.02 dB
- 3 Tx slot = 4.26 dB, Frame-Average output power = Burst-Average output power – 4.26 dB
- 4 Tx slot = 3.01 dB, Frame-Average output power = Burst-Average output power – 3.01 dB

GSM Class : B

GSM voice/GPRS VOIP: Head SAR , Body worn SAR

GPRS/EDGE Multi-slots 12 : Hotspot SAR with GPRS/EDGE

Multi-slot Class 12 with CS 1 (GMSK)



### 11.3 UMTS

#### HSPA+

This DUT is only capable of QPSK HSPA+ in uplink. Therefore, the RF conducted power is not measured according to 941225 D01v03r01 3G SAR.

#### 11.3.1 UMTS Maximum Conducted Output Power

##### UMTS Band 5 Maximum Conducted Output Power

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 5 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 4132<br>DL 4357 | UL 4183<br>DL 4408 | UL 4233<br>DL 4458 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 23.96              | 23.77              | 23.44              | -        |
| 99                   |          | 12.2 kbps AMR | 23.98              | 23.79              | 23.46              | -        |
| 5                    | HSDPA    | Subtest 1     | 22.49              | 22.28              | 21.95              | 0        |
| 5                    |          | Subtest 2     | 22.47              | 22.27              | 21.93              | 0        |
| 5                    |          | Subtest 3     | 21.99              | 21.80              | 21.46              | 0.5      |
| 5                    |          | Subtest 4     | 21.96              | 21.75              | 21.43              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 20.33              | 20.14              | 19.81              | 0        |
| 6                    |          | Subtest 2     | 20.34              | 20.12              | 19.81              | 2        |
| 6                    |          | Subtest 3     | 21.37              | 21.15              | 20.85              | 1        |
| 6                    |          | Subtest 4     | 19.83              | 19.63              | 19.37              | 2        |
| 6                    |          | Subtest 5     | 20.32              | 20.12              | 19.80              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 22.02              | 21.85              | 21.57              | 0        |
| 8                    |          | Subtest 2     | 22.03              | 21.82              | 21.55              | 0        |
| 8                    |          | Subtest 3     | 21.50              | 21.33              | 21.05              | 0.5      |
| 8                    |          | Subtest 4     | 21.51              | 21.31              | 21.05              | 0.5      |

UMTS Average Conducted output powers

##### UMTS Band 4 Maximum Conducted Output Power

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 4 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 1312<br>DL 1537 | UL 1412<br>DL 1637 | UL 1513<br>DL 1738 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 23.67              | 24.15              | 24.41              | -        |
| 99                   |          | 12.2 kbps AMR | 23.65              | 24.11              | 24.37              | -        |
| 5                    | HSDPA    | Subtest 1     | 22.46              | 22.97              | 23.24              | 0        |
| 5                    |          | Subtest 2     | 22.46              | 22.95              | 23.23              | 0        |
| 5                    |          | Subtest 3     | 21.99              | 22.48              | 22.77              | 0.5      |
| 5                    |          | Subtest 4     | 21.96              | 22.45              | 22.73              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 20.61              | 21.08              | 21.35              | 0        |
| 6                    |          | Subtest 2     | 20.60              | 21.09              | 21.37              | 2        |
| 6                    |          | Subtest 3     | 21.43              | 21.92              | 22.20              | 1        |
| 6                    |          | Subtest 4     | 20.14              | 20.61              | 20.91              | 2        |
| 6                    |          | Subtest 5     | 20.61              | 21.09              | 21.36              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 22.07              | 22.55              | 22.91              | 0        |
| 8                    |          | Subtest 2     | 22.11              | 22.58              | 22.89              | 0        |
| 8                    |          | Subtest 3     | 21.55              | 21.98              | 22.37              | 0.5      |
| 8                    |          | Subtest 4     | 21.58              | 22.04              | 22.34              | 0.5      |

UMTS Average Conducted output powers

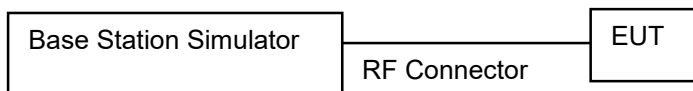
UMTS Band 2 Maximum Conducted Output Power

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 2 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 9262<br>DL 9662 | UL 9400<br>DL 9800 | UL 9538<br>DL 9938 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 23.03              | 22.98              | 23.12              | -        |
| 99                   |          | 12.2 kbps AMR | 23.06              | 23.01              | 23.14              | -        |
| 5                    | HSDPA    | Subtest 1     | 22.02              | 21.98              | 22.12              | 0        |
| 5                    |          | Subtest 2     | 22.04              | 21.98              | 22.12              | 0        |
| 5                    |          | Subtest 3     | 21.56              | 21.52              | 21.65              | 0.5      |
| 5                    |          | Subtest 4     | 21.51              | 21.47              | 21.62              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 20.07              | 20.05              | 20.19              | 0        |
| 6                    |          | Subtest 2     | 20.07              | 20.05              | 20.23              | 2        |
| 6                    |          | Subtest 3     | 21.13              | 21.11              | 21.26              | 1        |
| 6                    |          | Subtest 4     | 19.62              | 19.61              | 19.79              | 2        |
| 6                    |          | Subtest 5     | 20.08              | 20.05              | 20.22              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 21.58              | 21.47              | 21.43              | 0        |
| 8                    |          | Subtest 2     | 21.59              | 21.49              | 21.44              | 0        |
| 8                    |          | Subtest 3     | 21.06              | 20.95              | 20.91              | 0.5      |
| 8                    |          | Subtest 4     | 21.08              | 20.98              | 20.89              | 0.5      |

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



**11.3.2 UMTS Reduced Conducted Output Power (Hotspot mode activated)**

When Power back-off of UMTS B4/B2 are applied, MPR of HSUPA is set to 0.

**UMTS Band 4 Hotspot Back-off Power**

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 4 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 1312<br>DL 1537 | UL 1412<br>DL 1637 | UL 1513<br>DL 1738 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 19.06              | 19.59              | 20.23              | -        |
| 99                   |          | 12.2 kbps AMR | 19.08              | 19.58              | 20.23              | -        |
| 5                    | HSDPA    | Subtest 1     | 17.86              | 18.48              | 19.12              | 0        |
| 5                    |          | Subtest 2     | 17.86              | 18.44              | 19.12              | 0        |
| 5                    |          | Subtest 3     | 17.42              | 18.03              | 18.68              | 0.5      |
| 5                    |          | Subtest 4     | 17.37              | 17.99              | 18.63              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 16.03              | 16.51              | 17.16              | 0        |
| 6                    |          | Subtest 2     | 16.29              | 16.56              | 17.18              | 2        |
| 6                    |          | Subtest 3     | 16.45              | 17.04              | 17.65              | 1        |
| 6                    |          | Subtest 4     | 15.60              | 16.12              | 16.62              | 2        |
| 6                    |          | Subtest 5     | 16.04              | 17.07              | 17.68              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 17.35              | 18.09              | 18.74              | 0        |
| 8                    |          | Subtest 2     | 17.31              | 18.04              | 18.78              | 0        |
| 8                    |          | Subtest 3     | 16.80              | 17.53              | 18.20              | 0.5      |
| 8                    |          | Subtest 4     | 16.80              | 17.52              | 18.20              | 0.5      |

UMTS Average Conducted output powers

**UMTS Band 2 Hotspot Back-off Power**

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 2 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 9262<br>DL 9662 | UL 9400<br>DL 9800 | UL 9538<br>DL 9938 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 19.06              | 19.05              | 19.06              | -        |
| 99                   |          | 12.2 kbps AMR | 19.06              | 19.07              | 19.07              | -        |
| 5                    | HSDPA    | Subtest 1     | 17.95              | 17.98              | 18.00              | 0        |
| 5                    |          | Subtest 2     | 17.94              | 17.97              | 18.02              | 0        |
| 5                    |          | Subtest 3     | 17.55              | 17.51              | 17.50              | 0.5      |
| 5                    |          | Subtest 4     | 17.45              | 17.44              | 17.48              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 15.95              | 15.89              | 15.94              | 0        |
| 6                    |          | Subtest 2     | 15.96              | 15.92              | 15.97              | 2        |
| 6                    |          | Subtest 3     | 16.52              | 16.43              | 16.44              | 1        |
| 6                    |          | Subtest 4     | 15.53              | 15.51              | 15.54              | 2        |
| 6                    |          | Subtest 5     | 16.46              | 16.38              | 16.41              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 17.57              | 17.48              | 17.26              | 0        |
| 8                    |          | Subtest 2     | 17.60              | 17.50              | 17.25              | 0        |
| 8                    |          | Subtest 3     | 17.05              | 16.95              | 16.69              | 0.5      |
| 8                    |          | Subtest 4     | 17.04              | 16.95              | 16.73              | 0.5      |

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



**11.3.3 UMTS Reduced Conducted Output Power (Grip back activated)**

**UMTS Band 5 Grip Back-off Power**

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 5 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 4132<br>DL 4357 | UL 4183<br>DL 4408 | UL 4233<br>DL 4458 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 19.46              | 19.22              | 18.82              | -        |
| 99                   |          | 12.2 kbps AMR | 19.46              | 19.22              | 18.82              | -        |
| 5                    | HSDPA    | Subtest 1     | 18.31              | 18.09              | 17.69              | 0        |
| 5                    |          | Subtest 2     | 18.32              | 18.08              | 17.68              | 0        |
| 5                    |          | Subtest 3     | 17.82              | 17.61              | 17.28              | 0.5      |
| 5                    |          | Subtest 4     | 17.79              | 17.58              | 17.24              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 16.47              | 16.24              | 15.82              | 0        |
| 6                    |          | Subtest 2     | 16.45              | 16.24              | 15.82              | 2        |
| 6                    |          | Subtest 3     | 17.46              | 17.28              | 16.99              | 1        |
| 6                    |          | Subtest 4     | 15.98              | 15.76              | 15.42              | 2        |
| 6                    |          | Subtest 5     | 16.44              | 16.21              | 15.83              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 18.17              | 17.91              | 17.49              | 0        |
| 8                    |          | Subtest 2     | 18.18              | 17.92              | 17.51              | 0        |
| 8                    |          | Subtest 3     | 17.65              | 17.40              | 17.15              | 0.5      |
| 8                    |          | Subtest 4     | 17.64              | 17.40              | 17.15              | 0.5      |

UMTS Average Conducted output powers

**UMTS Band 4 Grip Back-off Power**

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 4 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 1312<br>DL 1537 | UL 1412<br>DL 1637 | UL 1513<br>DL 1738 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 19.04              | 19.61              | 20.26              | -        |
| 99                   |          | 12.2 kbps AMR | 19.06              | 19.62              | 20.26              | -        |
| 5                    | HSDPA    | Subtest 1     | 17.89              | 18.50              | 19.16              | 0        |
| 5                    |          | Subtest 2     | 17.88              | 18.49              | 19.15              | 0        |
| 5                    |          | Subtest 3     | 17.43              | 18.03              | 18.69              | 0.5      |
| 5                    |          | Subtest 4     | 17.39              | 18.00              | 18.64              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 16.05              | 16.55              | 17.19              | 0        |
| 6                    |          | Subtest 2     | 16.31              | 16.57              | 17.21              | 2        |
| 6                    |          | Subtest 3     | 16.50              | 17.06              | 17.71              | 1        |
| 6                    |          | Subtest 4     | 15.62              | 16.14              | 16.67              | 2        |
| 6                    |          | Subtest 5     | 16.06              | 17.07              | 17.71              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 17.36              | 18.10              | 18.80              | 0        |
| 8                    |          | Subtest 2     | 17.36              | 18.10              | 18.79              | 0        |
| 8                    |          | Subtest 3     | 16.84              | 17.57              | 18.25              | 0.5      |
| 8                    |          | Subtest 4     | 16.84              | 17.56              | 18.26              | 0.5      |

UMTS Average Conducted output powers

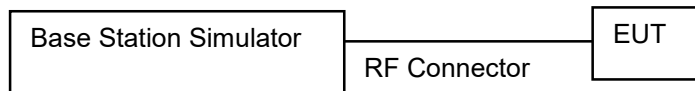
**UMTS Band 2 Grip Back-off Power**

| 3GPP Release Version | Mode     | 3GPP 34.121   | UMTS Band 2 [dBm]  |                    |                    | 3GPP MPR |
|----------------------|----------|---------------|--------------------|--------------------|--------------------|----------|
|                      |          | Subtest       | UL 9262<br>DL 9662 | UL 9400<br>DL 9800 | UL 9538<br>DL 9938 |          |
| 99                   | UMTS     | 12.2 kbps RMC | 19.08              | 19.03              | 19.02              | -        |
| 99                   |          | 12.2 kbps AMR | 19.08              | 19.03              | 19.02              | -        |
| 5                    | HSDPA    | Subtest 1     | 18.01              | 18.00              | 18.02              | 0        |
| 5                    |          | Subtest 2     | 18.00              | 18.00              | 18.02              | 0        |
| 5                    |          | Subtest 3     | 17.55              | 17.53              | 17.55              | 0.5      |
| 5                    |          | Subtest 4     | 17.49              | 17.49              | 17.50              | 0.5      |
| 6                    | HSUPA    | Subtest 1     | 15.99              | 15.94              | 15.94              | 0        |
| 6                    |          | Subtest 2     | 16.01              | 15.96              | 15.97              | 2        |
| 6                    |          | Subtest 3     | 16.52              | 16.47              | 16.47              | 1        |
| 6                    |          | Subtest 4     | 15.57              | 15.56              | 15.54              | 2        |
| 6                    |          | Subtest 5     | 16.49              | 16.44              | 16.43              | 0        |
| 8                    | DC-HSDPA | Subtest 1     | 17.61              | 17.53              | 17.26              | 0        |
| 8                    |          | Subtest 2     | 17.62              | 17.53              | 17.28              | 0        |
| 8                    |          | Subtest 3     | 17.10              | 16.99              | 16.74              | 0.5      |
| 8                    |          | Subtest 4     | 17.10              | 16.99              | 16.75              | 0.5      |

UMTS Average Conducted output powers

DC-HSDPA Configurations

- ◆ 3GPP specification TS 34.121-1 Release 8. was used for used for DC-HSDPA guidance.
- ◆ H-set 12(QPSK)was conformed to be used during DC-HSDPA measurements.



### 11.4 LTE Maximum Output Power

LTE B4/5/12/13/14/30/38/40/71 at 10 MHz/15 MHz/ 20 MHz Bandwidth does not support three non-overlapping channels. Per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the mid channel of the group of overlapping channels should be selected for testing.

#### 11.4.1 LTE Maximum Conducted Power

**[ LTE Band 2 Conducted Power ]**

LTE Band 2 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18607 Ch. 1850.7 MHz     | 18900 Ch. 1880 MHz | 19193 Ch. 1909.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 23.63                    | 23.28              | 23.38                | 0                         | 0        |
|           |            | 1       | 3         | 23.40                    | 23.29              | 23.36                | 0                         | 0        |
|           |            | 1       | 5         | 23.43                    | 23.31              | 23.37                | 0                         | 0        |
|           |            | 3       | 0         | 23.96                    | 23.85              | 23.94                | 0                         | 0        |
|           |            | 3       | 1         | 24.00                    | 23.82              | 23.93                | 0                         | 0        |
|           |            | 3       | 3         | 23.97                    | 23.79              | 23.96                | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 22.97                    | 22.83              | 22.95                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.74                    | 22.50              | 22.62                | 0-1                       | 1        |
|           |            | 1       | 3         | 22.67                    | 22.55              | 22.69                | 0-1                       | 1        |
|           |            | 1       | 5         | 22.69                    | 22.61              | 22.63                | 0-1                       | 1        |
|           |            | 3       | 0         | 23.04                    | 22.87              | 22.89                | 0-1                       | 1        |
|           |            | 3       | 1         | 22.97                    | 22.83              | 22.89                | 0-1                       | 1        |
|           | 64QAM      | 3       | 3         | 22.95                    | 22.73              | 22.94                | 0-1                       | 1        |
|           |            | 6       | 0         | 22.14                    | 22.02              | 22.01                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.76                    | 21.60              | 21.69                | 0-2                       | 2        |
|           |            | 1       | 3         | 21.64                    | 21.53              | 21.70                | 0-2                       | 2        |
|           |            | 1       | 5         | 21.67                    | 21.59              | 21.74                | 0-2                       | 2        |
|           |            | 3       | 0         | 22.18                    | 22.08              | 22.03                | 0-2                       | 2        |
|           |            | 3       | 1         | 22.19                    | 22.01              | 22.00                | 0-2                       | 2        |
|           | 3          | 3       | 22.15     | 21.98                    | 22.03              | 0-2                  | 2                         |          |
|           |            |         | 6         | 0                        | 21.08              | 20.88                | 21.03                     | 0-3      |

LTE Band 2\_ 3 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18615 Ch. 1851.5 MHz     | 18900 Ch. 1880 MHz | 19185 Ch. 1908.5 MHz |                           |          |
| 3 Mhz     | QPSK       | 1       | 0         | 23.43                    | 23.27              | 23.36                | 0                         | 0        |
|           |            | 1       | 7         | 23.45                    | 23.30              | 23.44                | 0                         | 0        |
|           |            | 1       | 14        | 23.42                    | 23.27              | 23.37                | 0                         | 0        |
|           |            | 8       | 0         | 22.93                    | 22.79              | 22.88                | 0-1                       | 1        |
|           |            | 8       | 3         | 22.99                    | 22.79              | 22.90                | 0-1                       | 1        |
|           |            | 8       | 7         | 22.95                    | 22.76              | 22.88                | 0-1                       | 1        |
|           | 16QAM      | 15      | 0         | 22.95                    | 22.77              | 22.93                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.65                    | 22.59              | 22.62                | 0-1                       | 1        |
|           |            | 1       | 7         | 22.63                    | 22.48              | 22.68                | 0-1                       | 1        |
|           |            | 1       | 14        | 22.60                    | 22.49              | 22.58                | 0-1                       | 1        |
|           |            | 8       | 0         | 22.15                    | 21.98              | 21.94                | 0-2                       | 2        |
|           |            | 8       | 3         | 22.19                    | 21.99              | 21.99                | 0-2                       | 2        |
|           | 64QAM      | 8       | 7         | 22.16                    | 21.97              | 21.95                | 0-2                       | 2        |
|           |            | 15      | 0         | 22.14                    | 21.92              | 21.92                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.69                    | 21.51              | 21.64                | 0-2                       | 2        |
|           |            | 1       | 7         | 21.78                    | 21.59              | 21.72                | 0-2                       | 2        |
|           |            | 1       | 14        | 21.75                    | 21.59              | 21.68                | 0-2                       | 2        |
|           |            | 8       | 0         | 21.08                    | 20.94              | 21.09                | 0-3                       | 3        |
|           | 8          | 3       | 21.19     | 20.97                    | 21.05              | 0-3                  | 3                         |          |
|           | 8          | 7       | 21.14     | 20.93                    | 21.06              | 0-3                  | 3                         |          |
|           | 15         | 0       | 21.09     | 20.87                    | 21.05              | 0-3                  | 3                         |          |

LTE Band 2\_ 5 Mhz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18625 Ch. 1852.5 MHz     | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz |                           |          |
| 5 Mhz     | QPSK       | 1       | 0         | 23.50                    | 23.33              | 23.39                | 0                         | 0        |
|           |            | 1       | 12        | 23.52                    | 23.33              | 23.44                | 0                         | 0        |
|           |            | 1       | 24        | 23.43                    | 23.33              | 23.45                | 0                         | 0        |
|           |            | 12      | 0         | 23.03                    | 22.84              | 22.96                | 0-1                       | 1        |
|           |            | 12      | 6         | 23.00                    | 22.83              | 22.94                | 0-1                       | 1        |
|           |            | 12      | 11        | 22.99                    | 22.76              | 22.89                | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 22.97                    | 22.80              | 22.96                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.65                    | 22.64              | 22.66                | 0-1                       | 1        |
|           |            | 1       | 12        | 22.81                    | 22.60              | 22.59                | 0-1                       | 1        |
|           |            | 1       | 24        | 22.61                    | 22.61              | 22.68                | 0-1                       | 1        |
|           |            | 12      | 0         | 22.14                    | 21.91              | 21.96                | 0-2                       | 2        |
|           |            | 12      | 6         | 22.10                    | 21.95              | 21.92                | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 22.09                    | 21.91              | 21.92                | 0-2                       | 2        |
|           |            | 25      | 0         | 22.11                    | 21.96              | 21.94                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.75                    | 21.52              | 21.67                | 0-2                       | 2        |
|           |            | 1       | 12        | 21.73                    | 21.59              | 21.70                | 0-2                       | 2        |
|           |            | 1       | 24        | 21.74                    | 21.52              | 21.62                | 0-2                       | 2        |
|           |            | 12      | 0         | 21.11                    | 20.95              | 21.10                | 0-3                       | 3        |
|           | 12         | 6       | 21.12     | 20.94                    | 21.09              | 0-3                  | 3                         |          |
|           | 12         | 11      | 21.11     | 20.91                    | 21.09              | 0-3                  | 3                         |          |
|           | 25         | 0       | 21.08     | 20.94                    | 21.07              | 0-3                  | 3                         |          |



LTE Band 2 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18650 Ch. 1855 MHz       | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 23.45                    | 23.27              | 23.32              | 0                         | 0        |
|           |            | 1       | 24        | 23.45                    | 23.36              | 23.35              | 0                         | 0        |
|           |            | 1       | 49        | 23.35                    | 23.32              | 23.38              | 0                         | 0        |
|           |            | 25      | 0         | 22.93                    | 22.82              | 22.94              | 0-1                       | 1        |
|           |            | 25      | 12        | 23.00                    | 22.82              | 22.93              | 0-1                       | 1        |
|           |            | 25      | 24        | 22.94                    | 22.82              | 22.88              | 0-1                       | 1        |
|           | 16QAM      | 50      | 0         | 22.98                    | 22.81              | 22.96              | 0-1                       | 1        |
|           |            | 1       | 0         | 22.71                    | 22.56              | 22.62              | 0-1                       | 1        |
|           |            | 1       | 24        | 22.68                    | 22.66              | 22.61              | 0-1                       | 1        |
|           |            | 1       | 49        | 22.59                    | 22.53              | 22.58              | 0-1                       | 1        |
|           |            | 25      | 0         | 22.09                    | 21.96              | 21.94              | 0-2                       | 2        |
|           |            | 25      | 12        | 22.11                    | 21.97              | 21.96              | 0-2                       | 2        |
|           | 64QAM      | 25      | 24        | 22.08                    | 21.95              | 21.92              | 0-2                       | 2        |
|           |            | 50      | 0         | 22.09                    | 21.95              | 21.97              | 0-2                       | 2        |
|           |            | 1       | 0         | 21.66                    | 21.56              | 21.63              | 0-2                       | 2        |
|           |            | 1       | 24        | 21.73                    | 21.56              | 21.62              | 0-2                       | 2        |
|           |            | 1       | 49        | 21.59                    | 21.59              | 21.63              | 0-2                       | 2        |
|           |            | 25      | 0         | 21.09                    | 20.95              | 21.09              | 0-3                       | 3        |
|           |            | 25      | 12        | 21.11                    | 20.94              | 21.06              | 0-3                       | 3        |
|           |            | 25      | 24        | 21.07                    | 20.99              | 21.02              | 0-3                       | 3        |
|           |            | 50      | 0         | 21.04                    | 20.90              | 21.01              | 0-3                       | 3        |

LTE Band 2 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18675 Ch. 1857.5 MHz     | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.39                    | 23.25              | 23.22                | 0                         | 0        |
|           |            | 1       | 36        | 23.42                    | 23.29              | 23.33                | 0                         | 0        |
|           |            | 1       | 74        | 23.28                    | 23.28              | 23.35                | 0                         | 0        |
|           |            | 36      | 0         | 22.93                    | 22.83              | 22.81                | 0-1                       | 1        |
|           |            | 36      | 18        | 22.93                    | 22.81              | 22.82                | 0-1                       | 1        |
|           |            | 36      | 39        | 22.91                    | 22.75              | 22.83                | 0-1                       | 1        |
|           | 16QAM      | 75      | 0         | 22.91                    | 22.82              | 22.88                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.70                    | 22.48              | 22.40                | 0-1                       | 1        |
|           |            | 1       | 36        | 22.74                    | 22.56              | 22.67                | 0-1                       | 1        |
|           |            | 1       | 74        | 22.51                    | 22.44              | 22.54                | 0-1                       | 1        |
|           |            | 36      | 0         | 22.01                    | 21.94              | 21.98                | 0-2                       | 2        |
|           |            | 36      | 18        | 22.05                    | 21.92              | 21.88                | 0-2                       | 2        |
|           | 64QAM      | 36      | 39        | 21.99                    | 21.87              | 21.85                | 0-2                       | 2        |
|           |            | 75      | 0         | 22.01                    | 21.95              | 21.83                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.66                    | 21.48              | 21.46                | 0-2                       | 2        |
|           |            | 1       | 36        | 21.66                    | 21.59              | 21.62                | 0-2                       | 2        |
|           |            | 1       | 74        | 21.57                    | 21.49              | 21.60                | 0-2                       | 2        |
|           |            | 36      | 0         | 21.02                    | 20.94              | 21.03                | 0-3                       | 3        |
|           |            | 36      | 18        | 21.04                    | 20.97              | 21.01                | 0-3                       | 3        |
|           |            | 36      | 39        | 21.07                    | 20.96              | 20.97                | 0-3                       | 3        |
|           |            | 75      | 0         | 21.01                    | 20.95              | 20.99                | 0-3                       | 3        |

LTE Band 2\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18700 Ch. 1860 MHz       | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.34                    | 23.25              | 23.19              | 0                         | 0        |
|           |            | 1       | 49        | 23.42                    | 23.34              | 23.37              | 0                         | 0        |
|           |            | 1       | 99        | 23.21                    | 23.24              | 23.35              | 0                         | 0        |
|           |            | 50      | 0         | 22.91                    | 22.84              | 22.84              | 0-1                       | 1        |
|           |            | 50      | 25        | 22.97                    | 22.88              | 22.87              | 0-1                       | 1        |
|           |            | 50      | 49        | 22.91                    | 22.81              | 22.79              | 0-1                       | 1        |
|           |            | 100     | 0         | 22.91                    | 22.81              | 22.82              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.53                    | 22.41              | 22.41              | 0-1                       | 1        |
|           |            | 1       | 49        | 22.60                    | 22.65              | 22.58              | 0-1                       | 1        |
|           |            | 1       | 99        | 22.47                    | 22.55              | 22.50              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.10                    | 21.97              | 21.99              | 0-2                       | 2        |
|           |            | 50      | 25        | 22.04                    | 21.99              | 21.95              | 0-2                       | 2        |
|           |            | 50      | 49        | 22.05                    | 21.95              | 21.80              | 0-2                       | 2        |
|           |            | 100     | 0         | 22.01                    | 21.93              | 21.80              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.67                    | 21.57              | 21.48              | 0-2                       | 2        |
|           |            | 1       | 49        | 21.66                    | 21.67              | 21.66              | 0-2                       | 2        |
|           |            | 1       | 99        | 21.44                    | 21.56              | 21.65              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.06                    | 20.94              | 20.95              | 0-3                       | 3        |
|           |            | 50      | 25        | 21.04                    | 20.98              | 20.97              | 0-3                       | 3        |
|           |            | 50      | 49        | 21.05                    | 20.96              | 20.91              | 0-3                       | 3        |
|           |            | 100     | 0         | 21.01                    | 20.96              | 20.96              | 0-3                       | 3        |

**[ LTE Band 4 Conducted Power ]**

LTE Band 4 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19957 Ch. 1710.7 MHz     | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 22.88                    | 23.31                | 23.60                | 0                         | 0        |
|           |            | 1       | 3         | 22.83                    | 23.35                | 23.59                | 0                         | 0        |
|           |            | 1       | 5         | 22.86                    | 23.33                | 23.60                | 0                         | 0        |
|           |            | 3       | 0         | 23.37                    | 23.84                | 24.13                | 0                         | 0        |
|           |            | 3       | 1         | 23.39                    | 23.85                | 24.16                | 0                         | 0        |
|           |            | 3       | 3         | 23.36                    | 23.85                | 24.12                | 0                         | 0        |
|           |            | 6       | 0         | 22.52                    | 22.83                | 23.12                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.27                    | 22.74                | 22.79                | 0-1                       | 1        |
|           |            | 1       | 3         | 22.21                    | 22.81                | 22.85                | 0-1                       | 1        |
|           |            | 1       | 5         | 22.35                    | 22.79                | 22.93                | 0-1                       | 1        |
|           |            | 3       | 0         | 22.52                    | 22.83                | 23.14                | 0-1                       | 1        |
|           |            | 3       | 1         | 22.56                    | 22.80                | 23.17                | 0-1                       | 1        |
|           |            | 3       | 3         | 22.54                    | 22.78                | 23.16                | 0-1                       | 1        |
|           |            | 6       | 0         | 21.63                    | 22.05                | 22.35                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.14                    | 21.67                | 21.93                | 0-2                       | 2        |
|           |            | 1       | 3         | 21.13                    | 21.66                | 21.86                | 0-2                       | 2        |
|           |            | 1       | 5         | 21.22                    | 21.59                | 21.85                | 0-2                       | 2        |
|           |            | 3       | 0         | 21.60                    | 22.07                | 22.34                | 0-2                       | 2        |
|           |            | 3       | 1         | 21.61                    | 22.09                | 22.32                | 0-2                       | 2        |
|           |            | 3       | 3         | 21.62                    | 22.06                | 22.33                | 0-2                       | 2        |
|           |            | 6       | 0         | 20.53                    | 20.94                | 21.29                | 0-3                       | 3        |

LTE Band 4 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19965 Ch. 1711.5 MHz     | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 22.85                    | 23.34                | 23.58                | 0                         | 0        |
|           |            | 1       | 7         | 22.92                    | 23.37                | 23.64                | 0                         | 0        |
|           |            | 1       | 14        | 22.93                    | 23.29                | 23.57                | 0                         | 0        |
|           |            | 8       | 0         | 22.49                    | 22.82                | 23.11                | 0-1                       | 1        |
|           |            | 8       | 3         | 22.49                    | 22.83                | 23.13                | 0-1                       | 1        |
|           |            | 8       | 7         | 22.53                    | 22.84                | 23.10                | 0-1                       | 1        |
|           |            | 15      | 0         | 22.55                    | 22.84                | 23.12                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.22                    | 22.76                | 22.85                | 0-1                       | 1        |
|           |            | 1       | 7         | 22.26                    | 22.81                | 22.92                | 0-1                       | 1        |
|           |            | 1       | 14        | 22.38                    | 22.67                | 22.86                | 0-1                       | 1        |
|           |            | 8       | 0         | 21.59                    | 22.05                | 22.35                | 0-2                       | 2        |
|           |            | 8       | 3         | 21.62                    | 22.03                | 22.35                | 0-2                       | 2        |
|           |            | 8       | 7         | 21.62                    | 22.07                | 22.33                | 0-2                       | 2        |
|           |            | 15      | 0         | 21.61                    | 22.03                | 22.31                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.09                    | 21.62                | 21.82                | 0-2                       | 2        |
|           |            | 1       | 7         | 21.15                    | 21.69                | 21.90                | 0-2                       | 2        |
|           |            | 1       | 14        | 21.21                    | 21.65                | 21.88                | 0-2                       | 2        |
|           |            | 8       | 0         | 20.57                    | 20.97                | 21.29                | 0-3                       | 3        |
|           |            | 8       | 3         | 20.54                    | 21.00                | 21.31                | 0-3                       | 3        |
|           |            | 8       | 7         | 20.60                    | 21.03                | 21.28                | 0-3                       | 3        |
|           |            | 15      | 0         | 20.54                    | 20.98                | 21.26                | 0-3                       | 3        |

LTE Band 4 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19975 Ch. 1712.5 MHz     | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 22.93                    | 23.31                | 23.60                | 0                         | 0        |
|           |            | 1       | 12        | 22.94                    | 23.41                | 23.65                | 0                         | 0        |
|           |            | 1       | 24        | 22.99                    | 23.37                | 23.64                | 0                         | 0        |
|           |            | 12      | 0         | 22.57                    | 22.86                | 23.14                | 0-1                       | 1        |
|           |            | 12      | 6         | 22.57                    | 22.91                | 23.18                | 0-1                       | 1        |
|           |            | 12      | 11        | 22.60                    | 22.87                | 23.15                | 0-1                       | 1        |
|           |            | 25      | 0         | 22.61                    | 22.83                | 23.16                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.34                    | 22.88                | 22.88                | 0-1                       | 1        |
|           |            | 1       | 12        | 22.34                    | 22.73                | 22.90                | 0-1                       | 1        |
|           |            | 1       | 24        | 22.27                    | 22.71                | 22.87                | 0-1                       | 1        |
|           |            | 12      | 0         | 21.53                    | 21.99                | 22.27                | 0-2                       | 2        |
|           |            | 12      | 6         | 21.59                    | 22.02                | 22.27                | 0-2                       | 2        |
|           |            | 12      | 11        | 21.63                    | 21.95                | 22.21                | 0-2                       | 2        |
|           |            | 25      | 0         | 21.64                    | 22.00                | 22.33                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.19                    | 21.62                | 21.87                | 0-2                       | 2        |
|           |            | 1       | 12        | 21.25                    | 21.69                | 21.95                | 0-2                       | 2        |
|           |            | 1       | 24        | 21.28                    | 21.58                | 21.92                | 0-2                       | 2        |
|           |            | 12      | 0         | 20.55                    | 21.03                | 21.26                | 0-3                       | 3        |
|           |            | 12      | 6         | 20.58                    | 21.00                | 21.31                | 0-3                       | 3        |
|           |            | 12      | 11        | 20.64                    | 21.00                | 21.28                | 0-3                       | 3        |
|           |            | 25      | 0         | 20.62                    | 20.98                | 21.32                | 0-3                       | 3        |

LTE Band 4 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20000 Ch. 1715 MHz       | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 22.88                    | 23.26                | 23.51              | 0                         | 0        |
|           |            | 1       | 24        | 23.26                    | 23.66                | 23.60              | 0                         | 0        |
|           |            | 1       | 49        | 23.42                    | 23.40                | 23.70              | 0                         | 0        |
|           |            | 25      | 0         | 22.53                    | 22.84                | 23.12              | 0-1                       | 1        |
|           |            | 25      | 12        | 22.63                    | 22.88                | 23.14              | 0-1                       | 1        |
|           |            | 25      | 24        | 22.72                    | 22.88                | 23.14              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.62                    | 22.88                | 23.14              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.25                    | 22.58                | 22.77              | 0-1                       | 1        |
|           |            | 1       | 24        | 22.45                    | 22.87                | 22.86              | 0-1                       | 1        |
|           |            | 1       | 49        | 22.49                    | 22.72                | 22.94              | 0-1                       | 1        |
|           |            | 25      | 0         | 21.54                    | 22.00                | 22.24              | 0-2                       | 2        |
|           |            | 25      | 12        | 21.66                    | 22.03                | 22.27              | 0-2                       | 2        |
|           |            | 25      | 24        | 21.76                    | 22.07                | 22.33              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.64                    | 22.03                | 22.29              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.20                    | 21.97                | 21.80              | 0-2                       | 2        |
|           |            | 1       | 24        | 21.74                    | 21.64                | 22.19              | 0-2                       | 2        |
|           |            | 1       | 49        | 21.38                    | 22.01                | 21.90              | 0-2                       | 2        |
|           |            | 25      | 0         | 20.51                    | 20.99                | 21.21              | 0-3                       | 3        |
|           |            | 25      | 12        | 20.65                    | 21.00                | 21.25              | 0-3                       | 3        |
|           |            | 25      | 24        | 20.73                    | 21.03                | 21.33              | 0-3                       | 3        |
|           |            | 50      | 0         | 20.64                    | 21.01                | 21.22              | 0-3                       | 3        |

LTE Band 4 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20025 Ch. 1717.5 MHz     | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.10                    | 23.62                | 23.92                | 0                         | 0        |
|           |            | 1       | 36        | 23.15                    | 23.65                | 23.87                | 0                         | 0        |
|           |            | 1       | 74        | 23.59                    | 23.82                | 23.69                | 0                         | 0        |
|           |            | 36      | 0         | 22.55                    | 22.79                | 23.02                | 0-1                       | 1        |
|           |            | 36      | 18        | 22.71                    | 22.85                | 23.07                | 0-1                       | 1        |
|           |            | 36      | 39        | 22.62                    | 22.94                | 23.13                | 0-1                       | 1        |
|           |            | 75      | 0         | 22.72                    | 22.89                | 23.09                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.50                    | 22.85                | 22.74                | 0-1                       | 1        |
|           |            | 1       | 36        | 22.67                    | 22.70                | 22.82                | 0-1                       | 1        |
|           |            | 1       | 74        | 22.59                    | 23.01                | 22.93                | 0-1                       | 1        |
|           |            | 36      | 0         | 21.58                    | 21.91                | 22.14                | 0-2                       | 2        |
|           |            | 36      | 18        | 21.68                    | 21.99                | 22.19                | 0-2                       | 2        |
|           |            | 36      | 39        | 21.74                    | 21.99                | 22.28                | 0-2                       | 2        |
|           |            | 75      | 0         | 21.71                    | 22.02                | 22.17                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.65                    | 21.98                | 21.77                | 0-2                       | 2        |
|           |            | 1       | 36        | 21.91                    | 22.08                | 21.82                | 0-2                       | 2        |
|           |            | 1       | 74        | 21.96                    | 22.15                | 22.30                | 0-2                       | 2        |
|           |            | 36      | 0         | 20.57                    | 20.93                | 21.13                | 0-3                       | 3        |
|           |            | 36      | 18        | 20.68                    | 21.00                | 21.20                | 0-3                       | 3        |
|           |            | 36      | 39        | 20.81                    | 21.03                | 21.27                | 0-3                       | 3        |
|           |            | 75      | 0         | 20.63                    | 20.99                | 21.20                | 0-3                       | 3        |

LTE Band 4 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 20175 Ch. 1732.5 MHz     |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.56                    | 0                         | 0        |
|           |            | 1       | 49        | 23.87                    | 0                         | 0        |
|           |            | 1       | 99        | 23.88                    | 0                         | 0        |
|           |            | 50      | 0         | 22.83                    | 0-1                       | 1        |
|           |            | 50      | 25        | 22.88                    | 0-1                       | 1        |
|           |            | 50      | 49        | 22.96                    | 0-1                       | 1        |
|           |            | 100     | 0         | 22.89                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.80                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.09                    | 0-1                       | 1        |
|           |            | 1       | 99        | 23.21                    | 0-1                       | 1        |
|           |            | 50      | 0         | 21.94                    | 0-2                       | 2        |
|           |            | 50      | 25        | 22.02                    | 0-2                       | 2        |
|           |            | 50      | 49        | 22.08                    | 0-2                       | 2        |
|           |            | 100     | 0         | 21.98                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.78                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.09                    | 0-2                       | 2        |
|           |            | 1       | 99        | 22.10                    | 0-2                       | 2        |
|           |            | 50      | 0         | 20.93                    | 0-3                       | 3        |
|           |            | 50      | 25        | 21.00                    | 0-3                       | 3        |
|           |            | 50      | 49        | 21.03                    | 0-3                       | 3        |
|           |            | 100     | 0         | 20.96                    | 0-3                       | 3        |

**[ LTE Band 5 Conducted Power ]**

LTE Band 5 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 20407 Ch. 824.7 MHz      | 20525 Ch. 836.5 MHz | 20643 Ch. 848.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 24.24                    | 24.12               | 23.73               | 0                         | 0        |
|           |            | 1       | 3         | 24.23                    | 24.12               | 23.78               | 0                         | 0        |
|           |            | 1       | 5         | 24.27                    | 24.07               | 23.74               | 0                         | 0        |
|           |            | 3       | 0         | 24.31                    | 24.11               | 23.73               | 0                         | 0        |
|           |            | 3       | 1         | 24.32                    | 24.11               | 23.76               | 0                         | 0        |
|           |            | 3       | 3         | 24.33                    | 24.11               | 23.77               | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 23.36                    | 23.13               | 22.79               | 0-1                       | 1        |
|           |            | 1       | 0         | 23.60                    | 23.41               | 23.04               | 0-1                       | 1        |
|           |            | 1       | 3         | 23.57                    | 23.37               | 23.09               | 0-1                       | 1        |
|           |            | 1       | 5         | 23.49                    | 23.29               | 23.08               | 0-1                       | 1        |
|           |            | 3       | 0         | 23.32                    | 23.09               | 22.71               | 0-1                       | 1        |
|           |            | 3       | 1         | 23.33                    | 23.12               | 22.80               | 0-1                       | 1        |
|           | 64QAM      | 3       | 3         | 23.32                    | 23.13               | 22.77               | 0-1                       | 1        |
|           |            | 6       | 0         | 22.41                    | 22.21               | 21.84               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.48                    | 22.27               | 21.90               | 0-2                       | 2        |
|           |            | 1       | 3         | 22.47                    | 22.28               | 21.91               | 0-2                       | 2        |
|           |            | 1       | 5         | 22.44                    | 22.27               | 21.92               | 0-2                       | 2        |
|           |            | 3       | 0         | 22.42                    | 22.20               | 21.84               | 0-2                       | 2        |
|           | 64QAM      | 3       | 1         | 22.45                    | 22.20               | 21.84               | 0-2                       | 2        |
|           |            | 3       | 3         | 22.41                    | 22.23               | 21.84               | 0-2                       | 2        |
|           |            | 6       | 0         | 21.35                    | 21.06               | 20.72               | 0-3                       | 3        |

LTE Band 5 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 20415 Ch. 825.5 MHz      | 20525 Ch. 836.5 MHz | 20635 Ch. 847.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 24.35                    | 24.11               | 23.79               | 0                         | 0        |
|           |            | 1       | 7         | 24.33                    | 24.12               | 23.77               | 0                         | 0        |
|           |            | 1       | 14        | 24.30                    | 24.04               | 23.76               | 0                         | 0        |
|           |            | 8       | 0         | 23.36                    | 23.14               | 22.80               | 0-1                       | 1        |
|           |            | 8       | 3         | 23.37                    | 23.14               | 22.80               | 0-1                       | 1        |
|           |            | 8       | 7         | 23.33                    | 23.07               | 22.76               | 0-1                       | 1        |
|           |            | 15      | 0         | 23.35                    | 23.13               | 22.77               | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.62                    | 23.33               | 23.06               | 0-1                       | 1        |
|           |            | 1       | 7         | 23.62                    | 23.38               | 23.01               | 0-1                       | 1        |
|           |            | 1       | 14        | 23.60                    | 23.31               | 23.09               | 0-1                       | 1        |
|           |            | 8       | 0         | 22.44                    | 22.22               | 21.86               | 0-2                       | 2        |
|           |            | 8       | 3         | 22.38                    | 22.21               | 21.84               | 0-2                       | 2        |
|           |            | 8       | 7         | 22.37                    | 22.16               | 21.84               | 0-2                       | 2        |
|           |            | 15      | 0         | 22.38                    | 22.13               | 21.80               | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.45                    | 22.25               | 21.90               | 0-2                       | 2        |
|           |            | 1       | 7         | 22.48                    | 22.27               | 21.93               | 0-2                       | 2        |
|           |            | 1       | 14        | 22.51                    | 22.20               | 21.93               | 0-2                       | 2        |
|           |            | 8       | 0         | 21.39                    | 21.15               | 20.83               | 0-3                       | 3        |
|           |            | 8       | 3         | 21.37                    | 21.15               | 20.81               | 0-3                       | 3        |
|           |            | 8       | 7         | 21.35                    | 21.12               | 20.76               | 0-3                       | 3        |
|           | 64QAM      | 15      | 0         | 21.37                    | 21.14               | 20.78               | 0-3                       | 3        |

LTE Band 5 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 20425 Ch. 826.5 MHz      | 20525 Ch. 836.5 MHz | 20625 Ch. 846.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 24.39                    | 24.20               | 23.85               | 0                         | 0        |
|           |            | 1       | 12        | 24.38                    | 24.21               | 23.84               | 0                         | 0        |
|           |            | 1       | 24        | 24.31                    | 24.08               | 23.79               | 0                         | 0        |
|           |            | 12      | 0         | 23.44                    | 23.23               | 22.91               | 0-1                       | 1        |
|           |            | 12      | 6         | 23.39                    | 23.14               | 22.85               | 0-1                       | 1        |
|           |            | 12      | 11        | 23.30                    | 23.13               | 22.78               | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 23.38                    | 23.21               | 22.85               | 0-1                       | 1        |
|           |            | 1       | 0         | 23.65                    | 23.38               | 23.03               | 0-1                       | 1        |
|           |            | 1       | 12        | 23.61                    | 23.42               | 23.17               | 0-1                       | 1        |
|           |            | 1       | 24        | 23.55                    | 23.35               | 23.00               | 0-1                       | 1        |
|           |            | 12      | 0         | 22.42                    | 22.20               | 21.88               | 0-2                       | 2        |
|           |            | 12      | 6         | 22.37                    | 22.12               | 21.83               | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 22.28                    | 22.11               | 21.74               | 0-2                       | 2        |
|           |            | 25      | 0         | 22.39                    | 22.17               | 21.85               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.46                    | 22.33               | 21.89               | 0-2                       | 2        |
|           |            | 1       | 12        | 22.45                    | 22.31               | 22.00               | 0-2                       | 2        |
|           |            | 1       | 24        | 22.46                    | 22.25               | 21.89               | 0-2                       | 2        |
|           |            | 12      | 0         | 21.44                    | 21.21               | 20.91               | 0-3                       | 3        |
|           | 12         | 6       | 21.42     | 21.16                    | 20.83               | 0-3                 | 3                         |          |
|           | 12         | 11      | 21.29     | 21.13                    | 20.77               | 0-3                 | 3                         |          |
|           | 25         | 0       | 21.34     | 21.14                    | 20.83               | 0-3                 | 3                         |          |

LTE Band 5 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 20525 Ch. 836.5 MHz      |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.23                    | 0                         | 0        |
|           |            | 1       | 24        | 24.19                    | 0                         | 0        |
|           |            | 1       | 49        | 23.91                    | 0                         | 0        |
|           |            | 25      | 0         | 23.27                    | 0-1                       | 1        |
|           |            | 25      | 12        | 23.20                    | 0-1                       | 1        |
|           |            | 25      | 24        | 23.19                    | 0-1                       | 1        |
|           | 16QAM      | 50      | 0         | 23.21                    | 0-1                       | 1        |
|           |            | 1       | 0         | 23.46                    | 0-1                       | 1        |
|           |            | 1       | 24        | 23.49                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.27                    | 0-1                       | 1        |
|           |            | 25      | 0         | 22.22                    | 0-2                       | 2        |
|           |            | 25      | 12        | 22.19                    | 0-2                       | 2        |
|           | 64QAM      | 25      | 24        | 22.13                    | 0-2                       | 2        |
|           |            | 50      | 0         | 22.20                    | 0-2                       | 2        |
|           |            | 1       | 0         | 22.35                    | 0-2                       | 2        |
|           |            | 1       | 24        | 22.29                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.08                    | 0-2                       | 2        |
|           |            | 25      | 0         | 21.23                    | 0-3                       | 3        |
|           | 25         | 12      | 21.19     | 0-3                      | 3                         |          |
|           | 25         | 24      | 21.14     | 0-3                      | 3                         |          |
|           | 50         | 0       | 21.18     | 0-3                      | 3                         |          |

**[LTE Band 7 Conducted Power]**

LTE Band 7\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 20775 Ch. 2502.5 MHz     | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 23.85                    | 24.21              | 24.48                | 0                         | 0        |   |
|           |            | 1       | 12        | 23.92                    | 24.25              | 24.51                | 0                         | 0        |   |
|           |            | 1       | 24        | 23.95                    | 24.22              | 24.48                | 0                         | 0        |   |
|           |            | 12      | 0         | 22.94                    | 23.31              | 23.57                | 0-1                       | 1        |   |
|           |            | 12      | 6         | 22.93                    | 23.26              | 23.55                | 0-1                       | 1        |   |
|           |            | 12      | 11        | 22.96                    | 23.22              | 23.52                | 0-1                       | 1        |   |
|           | 16QAM      | 25      | 0         | 22.91                    | 23.24              | 23.52                | 0-1                       | 1        |   |
|           |            | 1       | 0         | 22.97                    | 23.42              | 23.74                | 0-1                       | 1        |   |
|           |            | 1       | 12        | 23.09                    | 23.37              | 23.66                | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.10                    | 23.44              | 23.65                | 0-1                       | 1        |   |
|           |            | 12      | 0         | 21.87                    | 22.25              | 22.58                | 0-2                       | 2        |   |
|           |            | 12      | 6         | 21.94                    | 22.22              | 22.54                | 0-2                       | 2        |   |
|           | 64QAM      | 12      | 11        | 21.91                    | 22.17              | 22.50                | 0-2                       | 2        |   |
|           |            | 25      | 0         | 21.94                    | 22.23              | 22.57                | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.08                    | 22.38              | 22.62                | 0-2                       | 2        |   |
|           |            | 1       | 12        | 22.00                    | 22.39              | 22.64                | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.07                    | 22.42              | 22.58                | 0-2                       | 2        |   |
|           |            | 12      | 0         | 20.93                    | 21.30              | 21.59                | 0-3                       | 3        |   |
|           |            | 64QAM   | 12        | 6                        | 20.89              | 21.22                | 21.51                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 20.92              | 21.20                | 21.53                     | 0-3      | 3 |
|           |            | 25      | 0         | 20.88                    | 21.19              | 21.55                | 0-3                       | 3        |   |

LTE Band 7\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|---|
|           |            |         |           | 20800 Ch. 2505 MHz       | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 23.83                    | 24.25              | 24.36              | 0                         | 0        |   |
|           |            | 1       | 24        | 23.98                    | 24.21              | 24.48              | 0                         | 0        |   |
|           |            | 1       | 49        | 24.04                    | 24.20              | 24.44              | 0                         | 0        |   |
|           |            | 25      | 0         | 22.93                    | 23.29              | 23.47              | 0-1                       | 1        |   |
|           |            | 25      | 12        | 22.99                    | 23.25              | 23.51              | 0-1                       | 1        |   |
|           |            | 25      | 24        | 23.07                    | 23.21              | 23.52              | 0-1                       | 1        |   |
|           | 16QAM      | 50      | 0         | 23.05                    | 23.28              | 23.49              | 0-1                       | 1        |   |
|           |            | 1       | 0         | 22.98                    | 23.43              | 23.60              | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.25                    | 23.53              | 23.74              | 0-1                       | 1        |   |
|           |            | 1       | 49        | 23.34                    | 23.47              | 23.62              | 0-1                       | 1        |   |
|           |            | 25      | 0         | 22.00                    | 22.35              | 22.50              | 0-2                       | 2        |   |
|           |            | 25      | 12        | 22.00                    | 22.26              | 22.50              | 0-2                       | 2        |   |
|           | 64QAM      | 25      | 24        | 22.08                    | 22.25              | 22.55              | 0-2                       | 2        |   |
|           |            | 50      | 0         | 22.03                    | 22.26              | 22.49              | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.01                    | 22.41              | 22.54              | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.15                    | 22.41              | 22.67              | 0-2                       | 2        |   |
|           |            | 1       | 49        | 22.14                    | 22.31              | 22.57              | 0-2                       | 2        |   |
|           |            | 25      | 0         | 20.95                    | 21.31              | 21.46              | 0-3                       | 3        |   |
|           |            | 64QAM   | 25        | 12                       | 20.97              | 21.23              | 21.50                     | 0-3      | 3 |
|           |            |         | 25        | 24                       | 21.06              | 21.16              | 21.52                     | 0-3      | 3 |
|           |            | 50      | 0         | 21.00                    | 21.23              | 21.45              | 0-3                       | 3        |   |



LTE Band 7\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20825 Ch. 2507.5 MHz     | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.78                    | 24.23              | 24.26                | 0                         | 0        |
|           |            | 1       | 36        | 24.02                    | 24.22              | 24.41                | 0                         | 0        |
|           |            | 1       | 74        | 24.13                    | 24.13              | 24.35                | 0                         | 0        |
|           |            | 36      | 0         | 22.97                    | 23.31              | 23.38                | 0-1                       | 1        |
|           |            | 36      | 18        | 23.05                    | 23.25              | 23.46                | 0-1                       | 1        |
|           |            | 36      | 39        | 23.14                    | 23.15              | 23.45                | 0-1                       | 1        |
|           |            | 75      | 0         | 23.07                    | 23.29              | 23.42                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.00                    | 23.47              | 23.50                | 0-1                       | 1        |
|           |            | 1       | 36        | 23.35                    | 23.47              | 23.57                | 0-1                       | 1        |
|           |            | 1       | 74        | 23.39                    | 23.44              | 23.61                | 0-1                       | 1        |
|           |            | 36      | 0         | 21.97                    | 22.29              | 22.40                | 0-2                       | 2        |
|           |            | 36      | 18        | 22.05                    | 22.23              | 22.43                | 0-2                       | 2        |
|           |            | 36      | 39        | 22.21                    | 22.14              | 22.48                | 0-2                       | 2        |
|           |            | 75      | 0         | 22.08                    | 22.24              | 22.43                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.92                    | 22.36              | 22.50                | 0-2                       | 2        |
|           |            | 1       | 36        | 22.18                    | 22.44              | 22.52                | 0-2                       | 2        |
|           |            | 1       | 74        | 22.29                    | 22.32              | 22.52                | 0-2                       | 2        |
|           |            | 36      | 0         | 20.98                    | 21.27              | 21.38                | 0-3                       | 3        |
|           |            | 36      | 18        | 21.04                    | 21.23              | 21.43                | 0-3                       | 3        |
|           |            | 36      | 39        | 21.17                    | 21.13              | 21.49                | 0-3                       | 3        |
|           |            | 75      | 0         | 21.05                    | 21.25              | 21.44                | 0-3                       | 3        |

LTE Band 7\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20850 Ch. 2510 MHz       | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.82                    | 24.15              | 24.15              | 0                         | 0        |
|           |            | 1       | 49        | 24.16                    | 24.21              | 24.37              | 0                         | 0        |
|           |            | 1       | 99        | 24.14                    | 24.03              | 24.31              | 0                         | 0        |
|           |            | 50      | 0         | 23.03                    | 23.37              | 23.43              | 0-1                       | 1        |
|           |            | 50      | 25        | 23.28                    | 23.40              | 23.48              | 0-1                       | 1        |
|           |            | 50      | 49        | 23.24                    | 23.17              | 23.46              | 0-1                       | 1        |
|           |            | 100     | 0         | 23.18                    | 23.30              | 23.39              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.98                    | 23.35              | 23.42              | 0-1                       | 1        |
|           |            | 1       | 49        | 23.39                    | 23.52              | 23.64              | 0-1                       | 1        |
|           |            | 1       | 99        | 23.45                    | 23.29              | 23.46              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.02                    | 22.38              | 22.39              | 0-2                       | 2        |
|           |            | 50      | 25        | 22.18                    | 22.27              | 22.40              | 0-2                       | 2        |
|           |            | 50      | 49        | 22.31                    | 22.20              | 22.44              | 0-2                       | 2        |
|           |            | 100     | 0         | 22.16                    | 22.25              | 22.35              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.92                    | 22.29              | 22.26              | 0-2                       | 2        |
|           |            | 1       | 49        | 22.28                    | 22.42              | 22.49              | 0-2                       | 2        |
|           |            | 1       | 99        | 22.30                    | 22.09              | 22.43              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.01                    | 21.36              | 21.37              | 0-3                       | 3        |
|           |            | 50      | 25        | 21.15                    | 21.22              | 21.38              | 0-3                       | 3        |
|           |            | 50      | 49        | 21.30                    | 21.16              | 21.41              | 0-3                       | 3        |
|           |            | 100     | 0         | 21.15                    | 21.23              | 21.32              | 0-3                       | 3        |

**[LTE Band 12 Conducted Power]**

LTE Band 12\_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 23017 Ch. 699.7 MHz      | 23095 Ch. 707.5 MHz | 23173 Ch. 715.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 24.40                    | 24.22               | 24.13               | 0                         | 0        |
|           |            | 1       | 3         | 24.43                    | 24.27               | 24.04               | 0                         | 0        |
|           |            | 1       | 5         | 24.39                    | 23.94               | 24.01               | 0                         | 0        |
|           |            | 3       | 0         | 24.48                    | 24.23               | 24.10               | 0                         | 0        |
|           |            | 3       | 1         | 24.45                    | 24.25               | 24.05               | 0                         | 0        |
|           |            | 3       | 3         | 24.45                    | 24.22               | 24.04               | 0                         | 0        |
|           | 16QAM      | 1       | 0         | 23.70                    | 23.43               | 23.46               | 0-1                       | 1        |
|           |            | 1       | 3         | 23.24                    | 23.52               | 22.95               | 0-1                       | 1        |
|           |            | 1       | 5         | 23.25                    | 23.55               | 23.34               | 0-1                       | 1        |
|           |            | 3       | 0         | 23.54                    | 23.26               | 23.14               | 0-1                       | 1        |
|           |            | 3       | 1         | 23.47                    | 23.23               | 23.07               | 0-1                       | 1        |
|           |            | 3       | 3         | 23.47                    | 23.22               | 23.07               | 0-1                       | 1        |
|           | 64QAM      | 6       | 0         | 22.49                    | 22.32               | 22.16               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.62                    | 22.38               | 22.39               | 0-2                       | 2        |
|           |            | 1       | 3         | 22.61                    | 22.41               | 21.67               | 0-2                       | 2        |
|           |            | 1       | 5         | 22.58                    | 22.40               | 22.15               | 0-2                       | 2        |
|           |            | 3       | 0         | 22.53                    | 22.27               | 22.18               | 0-2                       | 2        |
|           |            | 3       | 1         | 22.55                    | 22.30               | 22.19               | 0-2                       | 2        |
|           |            | 3       | 3         | 22.50                    | 22.32               | 22.12               | 0-2                       | 2        |
|           |            | 6       | 0         | 21.42                    | 21.21               | 21.02               | 0-3                       | 3        |

LTE Band 12\_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 23025 Ch. 700.5 MHz      | 23095 Ch. 707.5 MHz | 23165 Ch. 714.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 24.40                    | 24.24               | 24.09               | 0                         | 0        |
|           |            | 1       | 7         | 24.39                    | 24.22               | 24.16               | 0                         | 0        |
|           |            | 1       | 14        | 24.35                    | 24.19               | 23.99               | 0                         | 0        |
|           |            | 8       | 0         | 23.41                    | 23.22               | 23.11               | 0-1                       | 1        |
|           |            | 8       | 3         | 23.43                    | 23.25               | 23.10               | 0-1                       | 1        |
|           |            | 8       | 7         | 23.37                    | 23.19               | 23.00               | 0-1                       | 1        |
|           |            | 15      | 0         | 23.44                    | 23.20               | 23.08               | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.74                    | 23.48               | 23.35               | 0-1                       | 1        |
|           |            | 1       | 7         | 23.70                    | 23.60               | 23.18               | 0-1                       | 1        |
|           |            | 1       | 14        | 23.72                    | 23.51               | 23.34               | 0-1                       | 1        |
|           |            | 8       | 0         | 22.48                    | 22.27               | 22.17               | 0-2                       | 2        |
|           |            | 8       | 3         | 22.51                    | 22.31               | 22.17               | 0-2                       | 2        |
|           |            | 8       | 7         | 22.45                    | 22.27               | 22.03               | 0-2                       | 2        |
|           | 64QAM      | 15      | 0         | 22.42                    | 22.22               | 22.10               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.58                    | 22.41               | 22.21               | 0-2                       | 2        |
|           |            | 1       | 7         | 22.60                    | 22.50               | 22.28               | 0-2                       | 2        |
|           |            | 1       | 14        | 22.52                    | 22.40               | 22.21               | 0-2                       | 2        |
|           |            | 8       | 0         | 21.48                    | 21.25               | 21.14               | 0-3                       | 3        |
|           |            | 8       | 3         | 21.44                    | 21.29               | 21.07               | 0-3                       | 3        |
|           |            | 8       | 7         | 21.39                    | 21.21               | 21.00               | 0-3                       | 3        |
|           |            | 15      | 0         | 21.39                    | 21.16               | 21.08               | 0-3                       | 3        |

LTE Band 12\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|---|
|           |            |         |           | 23035 Ch. 701.5 MHz      | 23095 Ch. 707.5 MHz | 23155 Ch. 713.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 24.45                    | 24.28               | 24.21               | 0                         | 0        |   |
|           |            | 1       | 12        | 24.41                    | 24.30               | 24.12               | 0                         | 0        |   |
|           |            | 1       | 24        | 24.38                    | 24.24               | 24.05               | 0                         | 0        |   |
|           |            | 12      | 0         | 23.45                    | 23.29               | 23.15               | 0-1                       | 1        |   |
|           |            | 12      | 6         | 23.41                    | 23.26               | 23.14               | 0-1                       | 1        |   |
|           |            | 12      | 11        | 23.37                    | 23.18               | 23.04               | 0-1                       | 1        |   |
|           | 16QAM      | 25      | 0         | 23.39                    | 23.25               | 23.09               | 0-1                       | 1        |   |
|           |            | 1       | 0         | 23.79                    | 23.59               | 23.55               | 0-1                       | 1        |   |
|           |            | 1       | 12        | 23.73                    | 23.48               | 23.34               | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.59                    | 23.47               | 23.32               | 0-1                       | 1        |   |
|           |            | 12      | 0         | 22.40                    | 22.26               | 22.15               | 0-2                       | 2        |   |
|           |            | 12      | 6         | 22.40                    | 22.29               | 22.15               | 0-2                       | 2        |   |
|           | 64QAM      | 12      | 11        | 22.39                    | 22.15               | 22.03               | 0-2                       | 2        |   |
|           |            | 25      | 0         | 22.43                    | 22.27               | 22.08               | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.62                    | 22.44               | 22.44               | 0-2                       | 2        |   |
|           |            | 1       | 12        | 22.54                    | 22.44               | 22.31               | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.52                    | 22.31               | 22.20               | 0-2                       | 2        |   |
|           |            | 12      | 0         | 21.42                    | 21.28               | 21.13               | 0-3                       | 3        |   |
|           |            | 64QAM   | 12        | 6                        | 21.43               | 21.29               | 21.13                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 21.41               | 21.18               | 21.00                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 21.41               | 21.18               | 21.00                     | 0-3      | 3 |
| 25        |            |         | 0         | 21.40                    | 21.21               | 21.06               | 0-3                       | 3        |   |
| 25        |            |         | 0         | 21.40                    | 21.21               | 21.06               | 0-3                       | 3        |   |

LTE Band 12\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|---|
|           |            |         |           | 23095 Ch. 707.5 MHz      |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 24.89                    | 0                         | 0        |   |
|           |            | 1       | 24        | 24.78                    | 0                         | 0        |   |
|           |            | 1       | 49        | 24.66                    | 0                         | 0        |   |
|           |            | 25      | 0         | 23.84                    | 0-1                       | 1        |   |
|           |            | 25      | 12        | 23.79                    | 0-1                       | 1        |   |
|           |            | 25      | 24        | 23.65                    | 0-1                       | 1        |   |
|           | 16QAM      | 50      | 0         | 23.28                    | 0-1                       | 1        |   |
|           |            | 1       | 0         | 23.57                    | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.55                    | 0-1                       | 1        |   |
|           |            | 1       | 49        | 23.45                    | 0-1                       | 1        |   |
|           |            | 25      | 0         | 22.33                    | 0-2                       | 2        |   |
|           |            | 25      | 12        | 22.32                    | 0-2                       | 2        |   |
|           | 64QAM      | 25      | 24        | 22.18                    | 0-2                       | 2        |   |
|           |            | 50      | 0         | 22.27                    | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.43                    | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.42                    | 0-2                       | 2        |   |
|           |            | 1       | 49        | 22.36                    | 0-2                       | 2        |   |
|           |            | 25      | 0         | 21.34                    | 0-3                       | 3        |   |
|           |            | 64QAM   | 25        | 12                       | 21.30                     | 0-3      | 3 |
|           |            |         | 25        | 24                       | 21.10                     | 0-3      | 3 |
|           |            |         | 25        | 24                       | 21.10                     | 0-3      | 3 |
| 50        |            |         | 0         | 21.21                    | 0-3                       | 3        |   |
| 50        |            |         | 0         | 21.21                    | 0-3                       | 3        |   |

**[LTE Band 13 Conducted Power ]**

LTE Band 13 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz        |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 24.31                    | 0                         | 0        |
|           |            | 1       | 24        | 24.28                    | 0                         | 0        |
|           |            | 1       | 49        | 24.30                    | 0                         | 0        |
|           |            | 25      | 0         | 23.37                    | 0-1                       | 1        |
|           |            | 25      | 12        | 23.28                    | 0-1                       | 1        |
|           |            | 25      | 24        | 23.23                    | 0-1                       | 1        |
|           |            | 50      | 0         | 23.30                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.50                    | 0-1                       | 1        |
|           |            | 1       | 24        | 23.59                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.46                    | 0-1                       | 1        |
|           |            | 25      | 0         | 22.34                    | 0-2                       | 2        |
|           |            | 25      | 12        | 22.21                    | 0-2                       | 2        |
|           |            | 25      | 24        | 22.22                    | 0-2                       | 2        |
|           |            | 50      | 0         | 22.29                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.44                    | 0-2                       | 2        |
|           |            | 1       | 24        | 22.40                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.33                    | 0-2                       | 2        |
|           |            | 25      | 0         | 21.34                    | 0-3                       | 3        |
|           |            | 25      | 12        | 21.22                    | 0-3                       | 3        |
|           |            | 25      | 24        | 21.25                    | 0-3                       | 3        |
|           |            | 50      | 0         | 21.29                    | 0-3                       | 3        |

LTE Band 13 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz        |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.36                    | 0                         | 0        |
|           |            | 1       | 24        | 24.31                    | 0                         | 0        |
|           |            | 1       | 49        | 24.19                    | 0                         | 0        |
|           |            | 25      | 0         | 23.32                    | 0-1                       | 1        |
|           |            | 25      | 12        | 23.28                    | 0-1                       | 1        |
|           |            | 25      | 24        | 23.34                    | 0-1                       | 1        |
|           |            | 50      | 0         | 23.37                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.61                    | 0-1                       | 1        |
|           |            | 1       | 24        | 23.57                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.44                    | 0-1                       | 1        |
|           |            | 25      | 0         | 22.30                    | 0-2                       | 2        |
|           |            | 25      | 12        | 22.28                    | 0-2                       | 2        |
|           |            | 25      | 24        | 22.35                    | 0-2                       | 2        |
|           |            | 50      | 0         | 22.34                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.43                    | 0-2                       | 2        |
|           |            | 1       | 24        | 22.46                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.36                    | 0-2                       | 2        |
|           |            | 25      | 0         | 21.31                    | 0-3                       | 3        |
|           |            | 25      | 12        | 21.28                    | 0-3                       | 3        |
|           |            | 25      | 24        | 21.34                    | 0-3                       | 3        |
|           |            | 50      | 0         | 21.29                    | 0-3                       | 3        |

[ LTE Band 14 conducted Power ]

LTE Band 14\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                   |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|-------------------|---------------------|---------------------------|----------|
|           |            |         |           | 23305 Ch. 790.5 MHz      | 23330 Ch. 793 MHz | 23355 Ch. 795.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 24.18                    | 24.21             | 24.31               | 0                         | 0        |
|           |            | 1       | 12        | 24.22                    | 24.30             | 24.29               | 0                         | 0        |
|           |            | 1       | 24        | 24.27                    | 24.25             | 24.28               | 0                         | 0        |
|           |            | 12      | 0         | 23.22                    | 23.29             | 23.27               | 0-1                       | 1        |
|           |            | 12      | 6         | 23.18                    | 23.29             | 23.25               | 0-1                       | 1        |
|           |            | 12      | 11        | 23.15                    | 23.24             | 23.27               | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 23.19                    | 23.29             | 23.34               | 0-1                       | 1        |
|           |            | 1       | 0         | 23.48                    | 23.42             | 23.50               | 0-1                       | 1        |
|           |            | 1       | 12        | 23.51                    | 23.59             | 23.54               | 0-1                       | 1        |
|           |            | 1       | 24        | 23.55                    | 23.43             | 23.49               | 0-1                       | 1        |
|           |            | 12      | 0         | 22.24                    | 22.30             | 22.30               | 0-2                       | 2        |
|           |            | 12      | 6         | 22.19                    | 22.27             | 22.26               | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 22.19                    | 22.26             | 22.26               | 0-2                       | 2        |
|           |            | 25      | 0         | 22.24                    | 22.29             | 22.33               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.35                    | 22.40             | 22.43               | 0-2                       | 2        |
|           |            | 1       | 12        | 22.43                    | 22.54             | 22.48               | 0-2                       | 2        |
|           |            | 1       | 24        | 22.41                    | 22.32             | 22.53               | 0-2                       | 2        |
|           |            | 12      | 0         | 21.27                    | 21.29             | 21.27               | 0-3                       | 3        |
|           | 64QAM      | 12      | 6         | 21.23                    | 21.29             | 21.27               | 0-3                       | 3        |
|           |            | 12      | 11        | 21.17                    | 21.26             | 21.29               | 0-3                       | 3        |
|           |            | 12      | 11        | 21.17                    | 21.26             | 21.29               | 0-3                       | 3        |
| 25        |            | 0       | 21.21     | 21.29                    | 21.31             | 0-3                 | 3                         |          |
| 25        |            | 0       | 21.21     | 21.29                    | 21.31             | 0-3                 | 3                         |          |

LTE Band 14\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 23330 Ch. 793 MHz        |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.25                    | 0                         | 0        |
|           |            | 1       | 24        | 24.34                    | 0                         | 0        |
|           |            | 1       | 49        | 24.27                    | 0                         | 0        |
|           |            | 25      | 0         | 23.26                    | 0-1                       | 1        |
|           |            | 25      | 12        | 23.30                    | 0-1                       | 1        |
|           |            | 25      | 24        | 23.27                    | 0-1                       | 1        |
|           | 16QAM      | 50      | 0         | 23.31                    | 0-1                       | 1        |
|           |            | 1       | 0         | 23.53                    | 0-1                       | 1        |
|           |            | 1       | 24        | 23.54                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.51                    | 0-1                       | 1        |
|           |            | 25      | 0         | 22.25                    | 0-2                       | 2        |
|           |            | 25      | 12        | 22.34                    | 0-2                       | 2        |
|           | 64QAM      | 25      | 24        | 22.28                    | 0-2                       | 2        |
|           |            | 50      | 0         | 22.26                    | 0-2                       | 2        |
|           |            | 1       | 0         | 22.39                    | 0-2                       | 2        |
|           |            | 1       | 24        | 22.51                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.48                    | 0-2                       | 2        |
|           |            | 25      | 0         | 21.28                    | 0-3                       | 3        |
|           | 64QAM      | 25      | 12        | 21.30                    | 0-3                       | 3        |
|           |            | 25      | 24        | 21.25                    | 0-3                       | 3        |
|           |            | 25      | 24        | 21.25                    | 0-3                       | 3        |
|           |            | 50      | 0         | 21.29                    | 0-3                       | 3        |
|           |            | 50      | 0         | 21.29                    | 0-3                       | 3        |

**[ LTE Band 25 Conducted Power ]**

LTE Band 25\_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26047 Ch. 1850.7 MHz     | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 23.97                    | 23.37                | 23.41                | 0                         | 0        |
|           |            | 1       | 3         | 23.96                    | 23.40                | 23.43                | 0                         | 0        |
|           |            | 1       | 5         | 23.48                    | 23.36                | 23.44                | 0                         | 0        |
|           |            | 3       | 0         | 24.06                    | 23.90                | 24.01                | 0                         | 0        |
|           |            | 3       | 1         | 24.06                    | 23.91                | 24.03                | 0                         | 0        |
|           |            | 3       | 3         | 24.04                    | 23.85                | 23.99                | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 23.05                    | 22.89                | 23.00                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.88                    | 22.57                | 22.65                | 0-1                       | 1        |
|           |            | 1       | 3         | 22.76                    | 22.70                | 22.81                | 0-1                       | 1        |
|           |            | 1       | 5         | 22.84                    | 22.57                | 22.68                | 0-1                       | 1        |
|           |            | 3       | 0         | 23.06                    | 22.86                | 23.07                | 0-1                       | 1        |
|           |            | 3       | 1         | 23.10                    | 22.91                | 23.00                | 0-1                       | 1        |
|           | 64QAM      | 3       | 3         | 23.10                    | 22.81                | 23.01                | 0-1                       | 1        |
|           |            | 6       | 0         | 22.22                    | 22.10                | 22.09                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.91                    | 21.66                | 21.74                | 0-2                       | 2        |
|           |            | 1       | 3         | 21.83                    | 21.64                | 21.77                | 0-2                       | 2        |
|           |            | 1       | 5         | 21.79                    | 21.72                | 21.71                | 0-2                       | 2        |
|           |            | 3       | 0         | 22.22                    | 22.07                | 22.06                | 0-2                       | 2        |
|           |            | 3       | 1         | 22.23                    | 22.06                | 22.05                | 0-2                       | 2        |
|           |            | 3       | 3         | 22.21                    | 22.06                | 22.08                | 0-2                       | 2        |
|           |            | 6       | 0         | 21.15                    | 20.95                | 21.12                | 0-3                       | 3        |

LTE Band 25\_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26055 Ch. 1851.5 MHz     | 26365 Ch. 1882.5 MHz | 26675 Ch. 1913.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 23.56                    | 23.33                | 23.51                | 0                         | 0        |
|           |            | 1       | 7         | 23.53                    | 23.89                | 23.51                | 0                         | 0        |
|           |            | 1       | 14        | 23.43                    | 23.35                | 23.45                | 0                         | 0        |
|           |            | 8       | 0         | 23.01                    | 22.84                | 22.98                | 0-1                       | 1        |
|           |            | 8       | 3         | 23.04                    | 22.86                | 22.95                | 0-1                       | 1        |
|           |            | 8       | 7         | 23.01                    | 22.82                | 22.96                | 0-1                       | 1        |
|           |            | 15      | 0         | 23.03                    | 22.83                | 22.96                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.82                    | 22.65                | 22.66                | 0-1                       | 1        |
|           |            | 1       | 7         | 22.99                    | 23.20                | 22.75                | 0-1                       | 1        |
|           |            | 1       | 14        | 23.14                    | 23.07                | 22.60                | 0-1                       | 1        |
|           |            | 8       | 0         | 22.24                    | 22.07                | 22.05                | 0-2                       | 2        |
|           |            | 8       | 3         | 22.24                    | 22.09                | 22.04                | 0-2                       | 2        |
|           |            | 8       | 7         | 22.19                    | 22.06                | 22.00                | 0-2                       | 2        |
|           |            | 15      | 0         | 22.19                    | 22.03                | 22.02                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.14                    | 22.16                | 21.69                | 0-2                       | 2        |
|           |            | 1       | 7         | 22.23                    | 22.16                | 21.74                | 0-2                       | 2        |
|           |            | 1       | 14        | 22.25                    | 22.10                | 21.67                | 0-2                       | 2        |
|           |            | 8       | 0         | 21.16                    | 21.02                | 21.08                | 0-3                       | 3        |
|           |            | 8       | 3         | 21.17                    | 21.03                | 21.13                | 0-3                       | 3        |
|           |            | 8       | 7         | 21.14                    | 20.98                | 21.17                | 0-3                       | 3        |
|           |            | 15      | 0         | 21.14                    | 20.95                | 21.11                | 0-3                       | 3        |

LTE Band 25\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26065 Ch. 1852.5 MHz     | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 24.07                    | 23.44                | 23.97                | 0                         | 0        |
|           |            | 1       | 12        | 24.03                    | 23.46                | 23.74                | 0                         | 0        |
|           |            | 1       | 24        | 23.97                    | 23.39                | 23.78                | 0                         | 0        |
|           |            | 12      | 0         | 23.07                    | 22.96                | 22.99                | 0-1                       | 1        |
|           |            | 12      | 6         | 23.03                    | 22.90                | 23.02                | 0-1                       | 1        |
|           |            | 12      | 11        | 22.98                    | 22.85                | 22.99                | 0-1                       | 1        |
|           |            | 25      | 0         | 23.02                    | 22.90                | 22.99                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.29                    | 23.18                | 22.80                | 0-1                       | 1        |
|           |            | 1       | 12        | 23.18                    | 23.09                | 22.79                | 0-1                       | 1        |
|           |            | 1       | 24        | 23.21                    | 22.87                | 22.71                | 0-1                       | 1        |
|           |            | 12      | 0         | 22.13                    | 22.04                | 22.00                | 0-2                       | 2        |
|           |            | 12      | 6         | 22.15                    | 21.99                | 21.97                | 0-2                       | 2        |
|           |            | 12      | 11        | 22.11                    | 21.98                | 22.00                | 0-2                       | 2        |
|           |            | 25      | 0         | 22.16                    | 22.06                | 22.05                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.29                    | 22.12                | 21.75                | 0-2                       | 2        |
|           |            | 1       | 12        | 22.29                    | 22.12                | 21.77                | 0-2                       | 2        |
|           |            | 1       | 24        | 22.18                    | 22.14                | 21.72                | 0-2                       | 2        |
|           |            | 12      | 0         | 21.15                    | 21.04                | 21.15                | 0-3                       | 3        |
|           |            | 12      | 6         | 21.17                    | 21.01                | 21.13                | 0-3                       | 3        |
|           |            | 12      | 11        | 21.13                    | 20.95                | 21.13                | 0-3                       | 3        |
|           |            | 25      | 0         | 21.13                    | 21.02                | 21.11                | 0-3                       | 3        |

LTE Band 25\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26090 Ch. 1855 MHz       | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.02                    | 23.86                | 23.88              | 0                         | 0        |
|           |            | 1       | 24        | 23.99                    | 23.90                | 24.01              | 0                         | 0        |
|           |            | 1       | 49        | 23.92                    | 23.91                | 23.96              | 0                         | 0        |
|           |            | 25      | 0         | 23.01                    | 22.92                | 23.01              | 0-1                       | 1        |
|           |            | 25      | 12        | 23.04                    | 22.91                | 22.96              | 0-1                       | 1        |
|           |            | 25      | 24        | 23.01                    | 22.91                | 22.97              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.98                    | 22.96                | 23.02              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.30                    | 23.11                | 22.64              | 0-1                       | 1        |
|           |            | 1       | 24        | 23.13                    | 23.15                | 22.71              | 0-1                       | 1        |
|           |            | 1       | 49        | 23.27                    | 23.06                | 22.68              | 0-1                       | 1        |
|           |            | 25      | 0         | 22.18                    | 22.04                | 22.03              | 0-2                       | 2        |
|           |            | 25      | 12        | 22.13                    | 22.06                | 21.98              | 0-2                       | 2        |
|           |            | 25      | 24        | 22.14                    | 22.08                | 22.00              | 0-2                       | 2        |
|           |            | 50      | 0         | 22.10                    | 22.08                | 22.02              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.24                    | 22.11                | 22.15              | 0-2                       | 2        |
|           |            | 1       | 24        | 22.19                    | 22.14                | 22.10              | 0-2                       | 2        |
|           |            | 1       | 49        | 22.19                    | 22.08                | 21.86              | 0-2                       | 2        |
|           |            | 25      | 0         | 21.13                    | 21.09                | 21.15              | 0-3                       | 3        |
|           |            | 25      | 12        | 21.16                    | 21.07                | 21.10              | 0-3                       | 3        |
|           |            | 25      | 24        | 21.09                    | 21.01                | 21.10              | 0-3                       | 3        |
|           |            | 50      | 0         | 21.13                    | 21.06                | 21.08              | 0-3                       | 3        |

LTE Band 25\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26115 Ch. 1857.5 MHz     | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.94                    | 23.81                | 23.79                | 0                         | 0        |
|           |            | 1       | 36        | 23.95                    | 23.89                | 23.92                | 0                         | 0        |
|           |            | 1       | 74        | 23.82                    | 23.81                | 23.89                | 0                         | 0        |
|           |            | 36      | 0         | 23.00                    | 22.87                | 22.97                | 0-1                       | 1        |
|           |            | 36      | 18        | 22.96                    | 22.83                | 22.95                | 0-1                       | 1        |
|           |            | 36      | 39        | 22.89                    | 22.85                | 22.95                | 0-1                       | 1        |
|           |            | 75      | 0         | 22.94                    | 22.92                | 23.02                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.28                    | 23.13                | 23.06                | 0-1                       | 1        |
|           |            | 1       | 36        | 23.19                    | 23.17                | 23.20                | 0-1                       | 1        |
|           |            | 1       | 74        | 23.16                    | 23.12                | 23.08                | 0-1                       | 1        |
|           |            | 36      | 0         | 22.05                    | 22.02                | 21.95                | 0-2                       | 2        |
|           |            | 36      | 18        | 22.09                    | 21.95                | 21.97                | 0-2                       | 2        |
|           |            | 36      | 39        | 22.00                    | 22.02                | 21.92                | 0-2                       | 2        |
|           |            | 75      | 0         | 22.08                    | 21.96                | 21.98                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.25                    | 22.10                | 22.09                | 0-2                       | 2        |
|           |            | 1       | 36        | 22.24                    | 22.16                | 22.05                | 0-2                       | 2        |
|           |            | 1       | 74        | 22.14                    | 22.08                | 22.05                | 0-2                       | 2        |
|           |            | 36      | 0         | 21.12                    | 21.00                | 21.10                | 0-3                       | 3        |
|           |            | 36      | 18        | 21.08                    | 20.97                | 21.09                | 0-3                       | 3        |
|           |            | 36      | 39        | 21.09                    | 21.03                | 21.09                | 0-3                       | 3        |
|           |            | 75      | 0         | 21.05                    | 20.97                | 21.09                | 0-3                       | 3        |

LTE Band 25\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26140 Ch. 1860 MHz       | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.91                    | 23.77                | 23.76              | 0                         | 0        |
|           |            | 1       | 49        | 23.94                    | 23.88                | 23.91              | 0                         | 0        |
|           |            | 1       | 99        | 23.75                    | 23.77                | 23.86              | 0                         | 0        |
|           |            | 50      | 0         | 22.97                    | 22.94                | 23.00              | 0-1                       | 1        |
|           |            | 50      | 25        | 22.95                    | 22.89                | 22.96              | 0-1                       | 1        |
|           |            | 50      | 49        | 22.95                    | 22.93                | 22.93              | 0-1                       | 1        |
|           |            | 100     | 0         | 22.97                    | 22.92                | 22.98              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.26                    | 23.08                | 22.98              | 0-1                       | 1        |
|           |            | 1       | 49        | 23.20                    | 23.18                | 23.10              | 0-1                       | 1        |
|           |            | 1       | 99        | 23.00                    | 23.07                | 23.16              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.03                    | 22.08                | 22.11              | 0-2                       | 2        |
|           |            | 50      | 25        | 22.07                    | 22.07                | 21.98              | 0-2                       | 2        |
|           |            | 50      | 49        | 22.07                    | 22.00                | 21.91              | 0-2                       | 2        |
|           |            | 100     | 0         | 22.04                    | 21.99                | 21.90              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.21                    | 22.06                | 22.04              | 0-2                       | 2        |
|           |            | 1       | 49        | 22.17                    | 22.15                | 22.04              | 0-2                       | 2        |
|           |            | 1       | 99        | 21.98                    | 21.99                | 21.99              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.00                    | 21.00                | 21.12              | 0-3                       | 3        |
|           |            | 50      | 25        | 21.11                    | 21.02                | 21.08              | 0-3                       | 3        |
|           |            | 50      | 49        | 21.02                    | 21.04                | 21.03              | 0-3                       | 3        |
|           |            | 100     | 0         | 21.02                    | 20.94                | 21.08              | 0-3                       | 3        |



**[ LTE Band 26 Conducted Power ]**

LTE Band 26 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 26697 Ch. 814.7 MHz      | 26865 Ch. 831.5 MHz | 27033 Ch. 848.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 24.49                    | 24.32               | 23.88               | 0                         | 0        |
|           |            | 1       | 3         | 24.52                    | 24.31               | 23.88               | 0                         | 0        |
|           |            | 1       | 5         | 24.49                    | 24.32               | 23.85               | 0                         | 0        |
|           |            | 3       | 0         | 24.53                    | 24.36               | 23.91               | 0                         | 0        |
|           |            | 3       | 1         | 24.52                    | 24.34               | 23.89               | 0                         | 0        |
|           |            | 3       | 3         | 24.54                    | 24.34               | 23.88               | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 23.55                    | 23.33               | 22.89               | 0-1                       | 1        |
|           |            | 1       | 0         | 23.77                    | 23.64               | 23.20               | 0-1                       | 1        |
|           |            | 1       | 3         | 23.83                    | 23.50               | 23.11               | 0-1                       | 1        |
|           |            | 1       | 5         | 23.69                    | 23.59               | 23.13               | 0-1                       | 1        |
|           |            | 3       | 0         | 23.57                    | 23.34               | 22.79               | 0-1                       | 1        |
|           |            | 3       | 1         | 23.50                    | 23.37               | 22.92               | 0-1                       | 1        |
|           | 64QAM      | 3       | 3         | 23.60                    | 23.39               | 22.84               | 0-1                       | 1        |
|           |            | 6       | 0         | 22.62                    | 22.44               | 21.95               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.69                    | 22.56               | 21.98               | 0-2                       | 2        |
|           |            | 1       | 3         | 22.71                    | 22.49               | 21.98               | 0-2                       | 2        |
|           |            | 1       | 5         | 22.62                    | 22.53               | 21.95               | 0-2                       | 2        |
|           |            | 3       | 0         | 22.61                    | 22.43               | 21.99               | 0-2                       | 2        |
|           | 64QAM      | 3       | 1         | 22.62                    | 22.44               | 21.94               | 0-2                       | 2        |
|           |            | 3       | 3         | 22.60                    | 22.38               | 21.97               | 0-2                       | 2        |
|           |            | 6       | 0         | 21.52                    | 21.28               | 20.86               | 0-3                       | 3        |

LTE Band 26 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 26705 Ch. 815.5 MHz      | 26865 Ch. 831.5 MHz | 27025 Ch. 847.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 24.50                    | 24.36               | 23.87               | 0                         | 0        |
|           |            | 1       | 7         | 24.51                    | 24.39               | 23.90               | 0                         | 0        |
|           |            | 1       | 14        | 24.48                    | 24.25               | 23.85               | 0                         | 0        |
|           |            | 8       | 0         | 23.56                    | 23.34               | 22.91               | 0-1                       | 1        |
|           |            | 8       | 3         | 23.53                    | 23.33               | 22.86               | 0-1                       | 1        |
|           |            | 8       | 7         | 23.55                    | 23.29               | 22.84               | 0-1                       | 1        |
|           |            | 15      | 0         | 23.52                    | 23.32               | 22.87               | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.84                    | 23.70               | 23.20               | 0-1                       | 1        |
|           |            | 1       | 7         | 23.79                    | 23.61               | 23.10               | 0-1                       | 1        |
|           |            | 1       | 14        | 23.73                    | 23.48               | 23.20               | 0-1                       | 1        |
|           |            | 8       | 0         | 22.64                    | 22.42               | 21.93               | 0-2                       | 2        |
|           |            | 8       | 3         | 22.63                    | 22.41               | 21.91               | 0-2                       | 2        |
|           |            | 8       | 7         | 22.58                    | 22.35               | 21.91               | 0-2                       | 2        |
|           |            | 15      | 0         | 22.55                    | 22.33               | 21.88               | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.70                    | 22.56               | 22.06               | 0-2                       | 2        |
|           |            | 1       | 7         | 22.67                    | 22.53               | 22.09               | 0-2                       | 2        |
|           |            | 1       | 14        | 22.62                    | 22.51               | 21.95               | 0-2                       | 2        |
|           |            | 8       | 0         | 21.59                    | 21.37               | 20.87               | 0-3                       | 3        |
|           |            | 8       | 3         | 21.55                    | 21.37               | 20.85               | 0-3                       | 3        |
|           |            | 8       | 7         | 21.55                    | 21.26               | 20.85               | 0-3                       | 3        |
|           |            | 15      | 0         | 21.53                    | 21.30               | 20.86               | 0-3                       | 3        |

LTE Band 26\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 26715 Ch. 816.5 MHz      | 26865 Ch. 831.5 MHz | 27015 Ch. 846.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 24.57                    | 24.40               | 23.93               | 0                         | 0        |
|           |            | 1       | 12        | 24.55                    | 24.41               | 23.90               | 0                         | 0        |
|           |            | 1       | 24        | 24.51                    | 24.27               | 23.90               | 0                         | 0        |
|           |            | 12      | 0         | 23.62                    | 23.48               | 22.98               | 0-1                       | 1        |
|           |            | 12      | 6         | 23.58                    | 23.38               | 22.90               | 0-1                       | 1        |
|           |            | 12      | 11        | 23.53                    | 23.32               | 22.88               | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 23.57                    | 23.37               | 22.92               | 0-1                       | 1        |
|           |            | 1       | 0         | 23.84                    | 23.67               | 23.28               | 0-1                       | 1        |
|           |            | 1       | 12        | 23.82                    | 23.59               | 23.14               | 0-1                       | 1        |
|           |            | 1       | 24        | 23.84                    | 23.57               | 23.13               | 0-1                       | 1        |
|           |            | 12      | 0         | 22.61                    | 22.46               | 21.94               | 0-2                       | 2        |
|           |            | 12      | 6         | 22.56                    | 22.34               | 21.89               | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 22.48                    | 22.26               | 21.84               | 0-2                       | 2        |
|           |            | 25      | 0         | 22.57                    | 22.39               | 21.90               | 0-2                       | 2        |
|           |            | 1       | 0         | 22.73                    | 22.57               | 22.18               | 0-2                       | 2        |
|           |            | 1       | 12        | 22.62                    | 22.55               | 22.05               | 0-2                       | 2        |
|           |            | 1       | 24        | 22.64                    | 22.38               | 22.01               | 0-2                       | 2        |
|           |            | 12      | 0         | 21.65                    | 21.48               | 20.99               | 0-3                       | 3        |
|           | 64QAM      | 12      | 6         | 21.52                    | 21.37               | 20.91               | 0-3                       | 3        |
|           |            | 12      | 11        | 21.53                    | 21.24               | 20.84               | 0-3                       | 3        |
|           |            | 25      | 0         | 21.56                    | 21.38               | 20.91               | 0-3                       | 3        |

LTE Band 26\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                   | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-------------------|---------------------------|----------|
|           |            |         |           | 26740 Ch. 819 MHz        | 26865 Ch. 831.5 MHz | 26990 Ch. 844 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.58                    | 24.45               | 24.15             | 0                         | 0        |
|           |            | 1       | 24        | 24.55                    | 24.41               | 23.97             | 0                         | 0        |
|           |            | 1       | 49        | 24.48                    | 24.22               | 23.87             | 0                         | 0        |
|           |            | 25      | 0         | 23.51                    | 23.51               | 23.00             | 0-1                       | 1        |
|           |            | 25      | 12        | 23.53                    | 23.40               | 22.98             | 0-1                       | 1        |
|           |            | 25      | 24        | 23.58                    | 23.30               | 22.84             | 0-1                       | 1        |
|           | 16QAM      | 50      | 0         | 23.55                    | 23.42               | 22.99             | 0-1                       | 1        |
|           |            | 1       | 0         | 23.83                    | 23.67               | 23.38             | 0-1                       | 1        |
|           |            | 1       | 24        | 23.90                    | 23.62               | 23.24             | 0-1                       | 1        |
|           |            | 1       | 49        | 23.75                    | 23.54               | 23.25             | 0-1                       | 1        |
|           |            | 25      | 0         | 22.53                    | 22.54               | 22.05             | 0-2                       | 2        |
|           |            | 25      | 12        | 22.50                    | 22.38               | 21.99             | 0-2                       | 2        |
|           | 64QAM      | 25      | 24        | 22.58                    | 22.33               | 21.82             | 0-2                       | 2        |
|           |            | 50      | 0         | 22.54                    | 22.41               | 21.98             | 0-2                       | 2        |
|           |            | 1       | 0         | 22.72                    | 22.56               | 22.22             | 0-2                       | 2        |
|           |            | 1       | 24        | 22.64                    | 22.64               | 22.13             | 0-2                       | 2        |
|           |            | 1       | 49        | 22.61                    | 22.39               | 22.07             | 0-2                       | 2        |
|           |            | 25      | 0         | 21.54                    | 21.47               | 21.01             | 0-3                       | 3        |
|           | 64QAM      | 25      | 12        | 21.54                    | 21.39               | 20.94             | 0-3                       | 3        |
|           |            | 25      | 24        | 21.57                    | 21.24               | 20.81             | 0-3                       | 3        |
|           |            | 50      | 0         | 21.52                    | 21.42               | 20.95             | 0-3                       | 3        |

LTE Band 26\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                       |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|-----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26775<br>822.5 MHz       | 26865Ch.<br>831.5 MHz | 26965<br>841.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 24.43                    | 24.88                 | 24.49              | 0                         | 0        |
|           |            | 1       | 36        | 24.39                    | 24.40                 | 24.00              | 0                         | 0        |
|           |            | 1       | 74        | 24.14                    | 24.06                 | 23.79              | 0                         | 0        |
|           |            | 36      | 0         | 23.48                    | 23.69                 | 23.07              | 0-1                       | 1        |
|           |            | 36      | 18        | 23.43                    | 23.33                 | 22.95              | 0-1                       | 1        |
|           |            | 36      | 39        | 23.30                    | 23.22                 | 22.73              | 0-1                       | 1        |
|           |            | 75      | 0         | 23.45                    | 23.41                 | 22.97              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.77                    | 23.74                 | 23.60              | 0-1                       | 1        |
|           |            | 1       | 36        | 23.65                    | 23.57                 | 23.36              | 0-1                       | 1        |
|           |            | 1       | 74        | 23.49                    | 23.44                 | 23.02              | 0-1                       | 1        |
|           |            | 36      | 0         | 22.55                    | 22.49                 | 22.07              | 0-2                       | 2        |
|           |            | 36      | 18        | 22.43                    | 22.37                 | 21.97              | 0-2                       | 2        |
|           |            | 36      | 39        | 22.31                    | 22.28                 | 21.72              | 0-2                       | 2        |
|           |            | 75      | 0         | 22.41                    | 22.39                 | 21.97              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.63                    | 22.57                 | 22.47              | 0-2                       | 2        |
|           |            | 1       | 36        | 22.59                    | 22.59                 | 22.11              | 0-2                       | 2        |
|           |            | 1       | 74        | 22.29                    | 22.17                 | 21.93              | 0-2                       | 2        |
|           |            | 36      | 0         | 21.53                    | 21.48                 | 21.09              | 0-3                       | 3        |
|           |            | 36      | 18        | 21.42                    | 21.35                 | 20.96              | 0-3                       | 3        |
|           |            | 36      | 39        | 21.33                    | 21.24                 | 20.75              | 0-3                       | 3        |
|           |            | 75      | 0         | 21.37                    | 21.31                 | 20.94              | 0-3                       | 3        |

**[ LTE Band 30 Conducted Power ]**

LTE Band 30\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 27685 Ch. 2307.5 MHz     | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 24.04                    | 24.06              | 24.10                | 0                         | 0        |   |
|           |            | 1       | 12        | 24.06                    | 24.13              | 24.11                | 0                         | 0        |   |
|           |            | 1       | 24        | 24.10                    | 24.10              | 24.11                | 0                         | 0        |   |
|           |            | 12      | 0         | 23.07                    | 23.08              | 23.15                | 0-1                       | 1        |   |
|           |            | 12      | 6         | 23.04                    | 23.09              | 23.14                | 0-1                       | 1        |   |
|           |            | 12      | 11        | 23.07                    | 23.10              | 23.11                | 0-1                       | 1        |   |
|           | 16QAM      | 25      | 0         | 23.04                    | 23.10              | 23.12                | 0-1                       | 1        |   |
|           |            | 1       | 0         | 23.29                    | 23.24              | 23.38                | 0-1                       | 1        |   |
|           |            | 1       | 12        | 23.31                    | 23.40              | 23.30                | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.34                    | 23.24              | 23.37                | 0-1                       | 1        |   |
|           |            | 12      | 0         | 22.06                    | 22.04              | 22.14                | 0-2                       | 2        |   |
|           |            | 12      | 6         | 22.01                    | 22.06              | 22.10                | 0-2                       | 2        |   |
|           | 64QAM      | 12      | 11        | 21.99                    | 22.06              | 22.04                | 0-2                       | 2        |   |
|           |            | 25      | 0         | 22.06                    | 22.13              | 22.12                | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.13                    | 22.18              | 22.24                | 0-2                       | 2        |   |
|           |            | 1       | 12        | 22.20                    | 22.25              | 22.29                | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.13                    | 22.27              | 22.27                | 0-2                       | 2        |   |
|           |            | 12      | 0         | 21.13                    | 21.19              | 21.24                | 0-3                       | 3        |   |
|           |            | 64QAM   | 12        | 6                        | 21.12              | 21.25                | 21.20                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 21.12              | 21.17                | 21.21                     | 0-3      | 3 |
|           |            | 25      | 0         | 21.11                    | 21.24              | 21.24                | 0-3                       | 3        |   |

LTE Band 30\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 27710 Ch. 2310 MHz       |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 24.03                    | 0                         | 0        |
|           |            | 1       | 24        | 24.08                    | 0                         | 0        |
|           |            | 1       | 49        | 24.07                    | 0                         | 0        |
|           |            | 25      | 0         | 23.02                    | 0-1                       | 1        |
|           |            | 25      | 12        | 23.09                    | 0-1                       | 1        |
|           |            | 25      | 24        | 23.07                    | 0-1                       | 1        |
|           |            | 50      | 0         | 23.06                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.26                    | 0-1                       | 1        |
|           |            | 1       | 24        | 23.33                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.20                    | 0-1                       | 1        |
|           |            | 25      | 0         | 22.04                    | 0-2                       | 2        |
|           |            | 25      | 12        | 22.15                    | 0-2                       | 2        |
|           |            | 25      | 24        | 22.10                    | 0-2                       | 2        |
|           | 64QAM      | 50      | 0         | 22.03                    | 0-2                       | 2        |
|           |            | 1       | 0         | 22.08                    | 0-2                       | 2        |
|           |            | 1       | 24        | 22.17                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.11                    | 0-2                       | 2        |
|           |            | 25      | 0         | 21.15                    | 0-3                       | 3        |
|           |            | 25      | 12        | 21.18                    | 0-3                       | 3        |
|           |            | 25      | 24        | 21.16                    | 0-3                       | 3        |
|           |            | 50      | 0         | 21.16                    | 0-3                       | 3        |

**[LTE TDD Band 38 Conducted Power]**

LTE Band 38\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 3775 Ch. 2572.5 MHz      | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 23.64                    | 23.60              | 23.18                | 0                         | 0        |   |
|           |            | 1       | 12        | 23.67                    | 23.59              | 23.20                | 0                         | 0        |   |
|           |            | 1       | 24        | 23.60                    | 23.48              | 23.13                | 0                         | 0        |   |
|           |            | 12      | 0         | 22.70                    | 22.61              | 22.23                | 0-1                       | 1        |   |
|           |            | 12      | 6         | 22.68                    | 22.54              | 22.17                | 0-1                       | 1        |   |
|           |            | 12      | 11        | 22.68                    | 22.54              | 22.16                | 0-1                       | 1        |   |
|           | 16QAM      | 25      | 0         | 22.68                    | 22.60              | 22.18                | 0-1                       | 1        |   |
|           |            | 1       | 0         | 22.73                    | 22.67              | 22.30                | 0-1                       | 1        |   |
|           |            | 1       | 12        | 22.75                    | 22.67              | 22.29                | 0-1                       | 1        |   |
|           |            | 1       | 24        | 22.73                    | 22.59              | 22.23                | 0-1                       | 1        |   |
|           |            | 12      | 0         | 21.65                    | 21.57              | 21.15                | 0-2                       | 2        |   |
|           |            | 12      | 6         | 21.64                    | 21.47              | 21.10                | 0-2                       | 2        |   |
|           | 64QAM      | 12      | 11        | 21.62                    | 21.46              | 21.07                | 0-2                       | 2        |   |
|           |            | 25      | 0         | 21.74                    | 21.61              | 21.20                | 0-2                       | 2        |   |
|           |            | 1       | 0         | 21.42                    | 21.33              | 20.90                | 0-2                       | 2        |   |
|           |            | 1       | 12        | 21.42                    | 21.31              | 20.89                | 0-2                       | 2        |   |
|           |            | 1       | 24        | 21.38                    | 21.20              | 20.83                | 0-2                       | 2        |   |
|           |            | 12      | 0         | 20.73                    | 20.64              | 20.20                | 0-3                       | 3        |   |
|           |            | 64QAM   | 12        | 6                        | 20.68              | 20.52                | 20.15                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 20.67              | 20.51                | 20.14                     | 0-3      | 3 |
|           |            |         | 25        | 0                        | 20.71              | 20.61                | 20.19                     | 0-3      | 3 |

LTE Band 38\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 37800 Ch. 2575 MHz       | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 23.64                    | 23.62              | 23.20              | 0                         | 0        |
|           |            | 1       | 24        | 23.62                    | 23.58              | 23.21              | 0                         | 0        |
|           |            | 1       | 49        | 23.61                    | 23.42              | 23.09              | 0                         | 0        |
|           |            | 25      | 0         | 22.67                    | 22.61              | 22.22              | 0-1                       | 1        |
|           |            | 25      | 12        | 22.70                    | 22.58              | 22.21              | 0-1                       | 1        |
|           |            | 25      | 24        | 22.68                    | 22.53              | 22.19              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.74                    | 22.62              | 22.25              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.72                    | 22.73              | 22.30              | 0-1                       | 1        |
|           |            | 1       | 24        | 22.74                    | 22.71              | 22.29              | 0-1                       | 1        |
|           |            | 1       | 49        | 22.71                    | 22.51              | 22.18              | 0-1                       | 1        |
|           |            | 25      | 0         | 21.71                    | 21.63              | 21.24              | 0-2                       | 2        |
|           |            | 25      | 12        | 21.72                    | 21.61              | 21.22              | 0-2                       | 2        |
|           |            | 25      | 24        | 21.69                    | 21.56              | 21.20              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.72                    | 21.62              | 21.25              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.35                    | 21.32              | 20.91              | 0-2                       | 2        |
|           |            | 1       | 24        | 21.36                    | 21.27              | 20.88              | 0-2                       | 2        |
|           |            | 1       | 49        | 21.31                    | 21.13              | 20.83              | 0-2                       | 2        |
|           |            | 25      | 0         | 20.71                    | 20.65              | 20.22              | 0-3                       | 3        |
|           |            | 25      | 12        | 20.75                    | 20.62              | 20.23              | 0-3                       | 3        |
|           |            | 25      | 24        | 20.71                    | 20.56              | 20.18              | 0-3                       | 3        |
|           |            | 50      | 0         | 20.70                    | 20.57              | 20.20              | 0-3                       | 3        |

LTE Band 38\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 37825 Ch. 2507.5 MHz     | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.56                    | 23.51              | 23.29                | 0                         | 0        |
|           |            | 1       | 36        | 23.61                    | 23.57              | 23.19                | 0                         | 0        |
|           |            | 1       | 74        | 23.50                    | 23.33              | 23.01                | 0                         | 0        |
|           |            | 36      | 0         | 22.68                    | 22.60              | 22.25                | 0-1                       | 1        |
|           |            | 36      | 18        | 22.73                    | 22.57              | 22.21                | 0-1                       | 1        |
|           |            | 36      | 39        | 22.68                    | 22.47              | 22.18                | 0-1                       | 1        |
|           |            | 75      | 0         | 22.70                    | 22.59              | 22.24                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.66                    | 22.64              | 22.42                | 0-1                       | 1        |
|           |            | 1       | 36        | 22.71                    | 22.66              | 22.27                | 0-1                       | 1        |
|           |            | 1       | 74        | 22.61                    | 22.44              | 22.14                | 0-1                       | 1        |
|           |            | 36      | 0         | 21.64                    | 21.58              | 21.23                | 0-2                       | 2        |
|           |            | 36      | 18        | 21.69                    | 21.53              | 21.16                | 0-2                       | 2        |
|           |            | 36      | 39        | 21.66                    | 21.43              | 21.15                | 0-2                       | 2        |
|           |            | 75      | 0         | 21.70                    | 21.58              | 21.26                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.29                    | 21.24              | 21.00                | 0-2                       | 2        |
|           |            | 1       | 36        | 21.34                    | 21.25              | 20.90                | 0-2                       | 2        |
|           |            | 1       | 74        | 21.22                    | 21.02              | 20.72                | 0-2                       | 2        |
|           |            | 36      | 0         | 20.66                    | 20.56              | 20.24                | 0-3                       | 3        |
|           |            | 36      | 18        | 20.68                    | 20.53              | 20.15                | 0-3                       | 3        |
|           |            | 36      | 39        | 20.62                    | 20.42              | 20.14                | 0-3                       | 3        |
|           |            | 75      | 0         | 20.68                    | 20.54              | 20.20                | 0-3                       | 3        |

LTE Band 38\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 38000 Ch. 2595 MHz       |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.55                    | 0                         | 0        |
|           |            | 1       | 49        | 23.56                    | 0                         | 0        |
|           |            | 1       | 99        | 23.22                    | 0                         | 0        |
|           |            | 50      | 0         | 22.63                    | 0-1                       | 1        |
|           |            | 50      | 25        | 22.62                    | 0-1                       | 1        |
|           |            | 50      | 49        | 22.53                    | 0-1                       | 1        |
|           |            | 100     | 0         | 22.58                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.64                    | 0-1                       | 1        |
|           |            | 1       | 49        | 22.68                    | 0-1                       | 1        |
|           |            | 1       | 99        | 22.33                    | 0-1                       | 1        |
|           |            | 50      | 0         | 21.65                    | 0-2                       | 2        |
|           |            | 50      | 25        | 21.60                    | 0-2                       | 2        |
|           |            | 50      | 49        | 21.50                    | 0-2                       | 2        |
|           |            | 100     | 0         | 21.57                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.26                    | 0-2                       | 2        |
|           |            | 1       | 49        | 21.26                    | 0-2                       | 2        |
|           |            | 1       | 99        | 20.92                    | 0-2                       | 2        |
|           |            | 50      | 0         | 20.61                    | 0-3                       | 3        |
|           |            | 50      | 25        | 20.58                    | 0-3                       | 3        |
|           |            | 50      | 49        | 20.48                    | 0-3                       | 3        |
|           |            | 100     | 0         | 20.51                    | 0-3                       | 3        |

[LTE Band 40 Low Side (MCC310) Conducted Power ]  
 LTE Band 40 Low Side (MCC310) 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 38725 Ch. 2307.5 MHz     | 38750 Ch. 2310 MHz | 38775 Ch. 2312.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 9.49                     | 9.51               | 9.56                 | 0                         | 0        |
|           |            | 1       | 12        | 9.52                     | 9.58               | 9.60                 | 0                         | 0        |
|           |            | 1       | 24        | 9.47                     | 9.56               | 9.59                 | 0                         | 0        |
|           |            | 12      | 0         | 9.45                     | 9.53               | 9.55                 | 0-1                       | 0        |
|           |            | 12      | 6         | 9.45                     | 9.51               | 9.55                 | 0-1                       | 0        |
|           |            | 12      | 11        | 9.48                     | 9.56               | 9.56                 | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 9.51                     | 9.53               | 9.59                 | 0-1                       | 0        |
|           |            | 1       | 0         | 9.56                     | 9.57               | 9.62                 | 0-1                       | 0        |
|           |            | 1       | 12        | 9.57                     | 9.68               | 9.68                 | 0-1                       | 0        |
|           |            | 1       | 24        | 9.58                     | 9.68               | 9.67                 | 0-1                       | 0        |
|           |            | 12      | 0         | 9.43                     | 9.48               | 9.53                 | 0-2                       | 0        |
|           |            | 12      | 6         | 9.42                     | 9.45               | 9.52                 | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 9.42                     | 9.50               | 9.52                 | 0-2                       | 0        |
|           |            | 25      | 0         | 9.53                     | 9.57               | 9.61                 | 0-2                       | 0        |
|           |            | 1       | 0         | 9.20                     | 9.22               | 9.26                 | 0-2                       | 0        |
|           |            | 1       | 12        | 9.24                     | 9.27               | 9.29                 | 0-2                       | 0        |
|           |            | 1       | 24        | 9.20                     | 9.27               | 9.30                 | 0-2                       | 0        |
|           |            | 12      | 0         | 9.54                     | 9.56               | 9.59                 | 0-3                       | 0        |
|           |            | 12      | 6         | 9.52                     | 9.56               | 9.62                 | 0-3                       | 0        |
|           |            | 12      | 11        | 9.52                     | 9.57               | 9.60                 | 0-3                       | 0        |
|           | 25         | 0       | 9.60      | 9.60                     | 9.66               | 0-3                  | 0                         |          |

LTE Band 40 Low Side (MCC310) 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 38750 Ch. 2310 MHz       |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 9.51                     | 0                         | 0        |
|           |            | 1       | 24        | 9.59                     | 0                         | 0        |
|           |            | 1       | 49        | 9.58                     | 0                         | 0        |
|           |            | 25      | 0         | 9.51                     | 0-1                       | 0        |
|           |            | 25      | 12        | 9.54                     | 0-1                       | 0        |
|           |            | 25      | 24        | 9.60                     | 0-1                       | 0        |
|           | 16QAM      | 50      | 0         | 9.58                     | 0-1                       | 0        |
|           |            | 1       | 0         | 9.59                     | 0-1                       | 0        |
|           |            | 1       | 24        | 9.67                     | 0-1                       | 0        |
|           |            | 1       | 49        | 9.65                     | 0-1                       | 0        |
|           |            | 25      | 0         | 9.56                     | 0-2                       | 0        |
|           |            | 25      | 12        | 9.53                     | 0-2                       | 0        |
|           | 64QAM      | 25      | 24        | 9.60                     | 0-2                       | 0        |
|           |            | 50      | 0         | 9.63                     | 0-2                       | 0        |
|           |            | 1       | 0         | 9.20                     | 0-2                       | 0        |
|           |            | 1       | 24        | 9.27                     | 0-2                       | 0        |
|           |            | 1       | 49        | 9.27                     | 0-2                       | 0        |
|           |            | 25      | 0         | 9.61                     | 0-3                       | 0        |
|           |            | 25      | 12        | 9.59                     | 0-3                       | 0        |
|           |            | 25      | 24        | 9.65                     | 0-3                       | 0        |
|           | 50         | 0       | 9.60      | 0-3                      | 0                         |          |

[LTE Band 40 Upper Side (MCC310) Conducted Power]  
 LTE Band 40 Upper Side (MCC310) \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 39175 Ch. 2352.5 MHz     | 39200 Ch. 2355 MHz | 39225 Ch. 2357.5 MHz |                           |          |
| 5MHz      | QPSK       | 1       | 0         | 9.74                     | 9.66               | 9.63                 | 0                         | 0        |
|           |            | 1       | 12        | 9.70                     | 9.63               | 9.60                 | 0                         | 0        |
|           |            | 1       | 24        | 9.62                     | 9.55               | 9.56                 | 0                         | 0        |
|           |            | 12      | 0         | 9.66                     | 9.63               | 9.63                 | 0-1                       | 0        |
|           |            | 12      | 6         | 9.78                     | 9.57               | 9.57                 | 0-1                       | 0        |
|           |            | 12      | 11        | 9.60                     | 9.56               | 9.57                 | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 9.65                     | 9.64               | 9.63                 | 0-1                       | 0        |
|           |            | 1       | 0         | 9.80                     | 9.73               | 9.69                 | 0-1                       | 0        |
|           |            | 1       | 12        | 10.03                    | 9.78               | 9.69                 | 0-1                       | 0        |
|           |            | 1       | 24        | 9.69                     | 9.66               | 9.65                 | 0-1                       | 0        |
|           |            | 12      | 0         | 9.62                     | 9.60               | 9.59                 | 0-2                       | 0        |
|           |            | 12      | 6         | 9.58                     | 9.54               | 9.54                 | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 9.58                     | 9.52               | 9.52                 | 0-2                       | 0        |
|           |            | 25      | 0         | 9.67                     | 9.64               | 9.88                 | 0-2                       | 0        |
|           |            | 1       | 0         | 9.71                     | 9.73               | 9.32                 | 0-2                       | 0        |
|           |            | 1       | 12        | 9.35                     | 9.34               | 9.29                 | 0-2                       | 0        |
|           |            | 1       | 24        | 9.28                     | 9.24               | 9.25                 | 0-2                       | 0        |
|           |            | 12      | 0         | 9.68                     | 9.67               | 9.65                 | 0-3                       | 0        |
|           |            | 12      | 6         | 9.65                     | 9.61               | 9.62                 | 0-3                       | 0        |
|           |            | 12      | 11        | 9.64                     | 9.59               | 9.15                 | 0-3                       | 0        |
|           | 25         | 0       | 9.73      | 9.69                     | 9.65               | 0-3                  | 0                         |          |

LTE Band 40 Upper Side (MCC310) \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 39200Ch. 2355 MHz        |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 9.75                     | 0                         | 0        |
|           |            | 1       | 24        | 9.62                     | 0                         | 0        |
|           |            | 1       | 49        | 9.55                     | 0                         | 0        |
|           |            | 25      | 0         | 9.66                     | 0-1                       | 0        |
|           |            | 25      | 12        | 9.61                     | 0-1                       | 0        |
|           |            | 25      | 24        | 9.55                     | 0-1                       | 0        |
|           |            | 50      | 0         | 9.63                     | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 9.85                     | 0-1                       | 0        |
|           |            | 1       | 24        | 9.74                     | 0-1                       | 0        |
|           |            | 1       | 49        | 9.62                     | 0-1                       | 0        |
|           |            | 25      | 0         | 9.70                     | 0-2                       | 0        |
|           |            | 25      | 12        | 9.66                     | 0-2                       | 0        |
|           |            | 25      | 24        | 9.59                     | 0-2                       | 0        |
|           |            | 50      | 0         | 9.67                     | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 9.43                     | 0-2                       | 0        |
|           |            | 1       | 24        | 9.32                     | 0-2                       | 0        |
|           |            | 1       | 49        | 9.21                     | 0-2                       | 0        |
|           |            | 25      | 0         | 9.71                     | 0-3                       | 0        |
|           |            | 25      | 12        | 9.71                     | 0-3                       | 0        |
|           |            | 25      | 24        | 9.60                     | 0-3                       | 0        |
|           |            | 50      | 0         | 9.65                     | 0-3                       | 0        |



**[ LTE Band 41 Conducted Power ] - Power Class 3**

LTE Band 41\_ 5 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      |                      | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch. 2498.5 MHz     | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 23.35                    | 22.87                | 23.48                | 23.05                | 23.33                | 0                        | 0        |
|            |            | 1       | 12        | 23.27                    | 22.87                | 23.47                | 23.06                | 23.36                | 0                        | 0        |
|            |            | 1       | 24        | 23.18                    | 22.82                | 23.36                | 22.99                | 23.40                | 0                        | 0        |
|            |            | 12      | 0         | 22.73                    | 22.31                | 22.98                | 22.55                | 22.83                | 0-1                      | 1        |
|            |            | 12      | 6         | 22.72                    | 22.27                | 22.94                | 22.49                | 22.86                | 0-1                      | 1        |
|            |            | 12      | 11        | 22.64                    | 22.29                | 22.87                | 22.46                | 22.87                | 0-1                      | 1        |
|            |            | 25      | 0         | 22.71                    | 22.30                | 22.94                | 22.50                | 22.88                | 0-1                      | 1        |
|            | 16QAM      | 1       | 0         | 22.33                    | 21.93                | 22.51                | 22.08                | 22.33                | 0-1                      | 1        |
|            |            | 1       | 12        | 22.26                    | 21.85                | 22.53                | 22.07                | 22.36                | 0-1                      | 1        |
|            |            | 1       | 24        | 22.16                    | 21.92                | 22.41                | 22.04                | 22.44                | 0-1                      | 1        |
|            |            | 12      | 0         | 21.67                    | 21.26                | 21.91                | 21.49                | 21.78                | 0-2                      | 2        |
|            |            | 12      | 6         | 21.64                    | 21.24                | 21.88                | 21.42                | 21.81                | 0-2                      | 2        |
|            |            | 12      | 11        | 21.59                    | 21.24                | 21.80                | 21.41                | 21.81                | 0-2                      | 2        |
|            |            | 25      | 0         | 21.73                    | 21.34                | 21.94                | 21.52                | 21.86                | 0-2                      | 2        |
|            | 64QAM      | 1       | 0         | 20.96                    | 20.90                | 21.16                | 20.71                | 21.03                | 0-2                      | 2        |
|            |            | 1       | 12        | 20.88                    | 20.62                | 21.14                | 20.71                | 21.07                | 0-2                      | 2        |
|            |            | 1       | 24        | 20.77                    | 20.82                | 21.05                | 20.66                | 21.09                | 0-2                      | 2        |
|            |            | 12      | 0         | 20.74                    | 20.34                | 20.98                | 20.56                | 20.87                | 0-3                      | 3        |
|            |            | 12      | 6         | 20.69                    | 20.32                | 20.96                | 20.51                | 20.87                | 0-3                      | 3        |
|            |            | 12      | 11        | 20.66                    | 20.31                | 20.90                | 20.46                | 20.87                | 0-3                      | 3        |
|            |            | 25      | 0         | 20.74                    | 20.37                | 20.95                | 20.55                | 20.92                | 0-3                      | 3        |

LTE Band 41\_ 10 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                    |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch. 2501 MHz       | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 23.44                    | 22.90              | 23.43              | 22.89              | 23.23              | 0                         | 0        |
|            |            | 1       | 24        | 23.16                    | 22.88              | 23.45              | 23.02              | 23.30              | 0                         | 0        |
|            |            | 1       | 49        | 23.05                    | 22.84              | 23.27              | 22.92              | 23.37              | 0                         | 0        |
|            |            | 25      | 0         | 22.70                    | 22.33              | 22.97              | 22.50              | 22.78              | 0-1                       | 1        |
|            |            | 25      | 12        | 22.61                    | 22.28              | 22.91              | 22.50              | 22.80              | 0-1                       | 1        |
|            |            | 25      | 24        | 22.57                    | 22.31              | 22.85              | 22.45              | 22.85              | 0-1                       | 1        |
|            |            | 50      | 0         | 22.61                    | 22.30              | 22.92              | 22.50              | 22.85              | 0-1                       | 1        |
|            |            | 16QAM   | 1         | 0                        | 22.36              | 21.89              | 22.51              | 22.03              | 22.26                     | 0-1      |
|            | 1          |         | 24        | 22.21                    | 21.93              | 22.51              | 22.09              | 22.33              | 0-1                       | 1        |
|            | 1          |         | 49        | 22.05                    | 21.89              | 22.33              | 21.96              | 22.40              | 0-1                       | 1        |
|            | 25         |         | 0         | 21.67                    | 21.31              | 21.97              | 21.51              | 21.77              | 0-2                       | 2        |
|            | 25         |         | 12        | 21.61                    | 21.27              | 21.91              | 21.51              | 21.79              | 0-2                       | 2        |
|            | 25         |         | 24        | 21.53                    | 21.33              | 21.86              | 21.44              | 21.84              | 0-2                       | 2        |
|            | 50         |         | 0         | 21.65                    | 21.31              | 21.94              | 21.52              | 21.84              | 0-2                       | 2        |
|            | 64QAM      |         | 1         | 0                        | 20.92              | 20.82              | 21.12              | 20.69              | 20.95                     | 0-2      |
|            |            | 1       | 24        | 20.80                    | 20.81              | 21.14              | 20.69              | 21.00              | 0-2                       | 2        |
|            |            | 1       | 49        | 20.61                    | 20.72              | 20.97              | 20.58              | 21.06              | 0-2                       | 2        |
|            |            | 25      | 0         | 20.71                    | 20.36              | 20.97              | 20.54              | 20.82              | 0-3                       | 3        |
|            |            | 25      | 12        | 20.67                    | 20.33              | 20.98              | 20.54              | 20.84              | 0-3                       | 3        |
|            |            | 25      | 24        | 20.61                    | 20.33              | 20.92              | 20.49              | 20.88              | 0-3                       | 3        |
|            |            | 50      | 0         | 20.62                    | 20.31              | 20.92              | 20.51              | 20.83              | 0-3                       | 3        |

LTE Band 41 \_ 15 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz     | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 23.25                    | 22.74                | 23.39                | 22.92                | 23.06                | 0                         | 0        |
|            |            | 1       | 36        | 23.07                    | 22.81                | 23.42                | 23.00                | 23.22                | 0                         | 0        |
|            |            | 1       | 74        | 22.83                    | 22.77                | 23.20                | 22.82                | 23.31                | 0                         | 0        |
|            |            | 36      | 0         | 22.60                    | 22.32                | 22.94                | 22.46                | 22.67                | 0-1                       | 1        |
|            |            | 36      | 18        | 22.53                    | 22.31                | 22.88                | 22.44                | 22.73                | 0-1                       | 1        |
|            |            | 36      | 39        | 22.43                    | 22.32                | 22.82                | 22.41                | 22.79                | 0-1                       | 1        |
|            | 16QAM      | 75      | 0         | 22.57                    | 22.30                | 22.91                | 22.47                | 22.75                | 0-1                       | 1        |
|            |            | 1       | 0         | 22.31                    | 21.85                | 22.47                | 22.02                | 22.13                | 0-1                       | 1        |
|            |            | 1       | 36        | 22.12                    | 21.87                | 22.48                | 22.05                | 22.26                | 0-1                       | 1        |
|            |            | 1       | 74        | 21.95                    | 21.89                | 22.30                | 21.90                | 22.36                | 0-1                       | 1        |
|            |            | 36      | 0         | 21.63                    | 21.29                | 21.91                | 21.44                | 21.62                | 0-2                       | 2        |
|            |            | 36      | 18        | 21.49                    | 21.26                | 21.85                | 21.43                | 21.68                | 0-2                       | 2        |
|            | 64QAM      | 36      | 39        | 21.44                    | 21.28                | 21.80                | 21.39                | 21.75                | 0-2                       | 2        |
|            |            | 75      | 0         | 21.59                    | 21.29                | 21.91                | 21.47                | 21.76                | 0-2                       | 2        |
|            |            | 1       | 0         | 20.89                    | 20.63                | 21.09                | 20.64                | 20.80                | 0-2                       | 2        |
|            |            | 1       | 36        | 20.71                    | 20.76                | 21.11                | 20.67                | 20.94                | 0-2                       | 2        |
|            |            | 1       | 74        | 20.50                    | 20.71                | 20.92                | 20.53                | 21.02                | 0-2                       | 2        |
|            |            | 36      | 0         | 20.64                    | 20.29                | 20.91                | 20.49                | 20.66                | 0-3                       | 3        |
|            | 64QAM      | 36      | 18        | 20.49                    | 20.26                | 20.89                | 20.44                | 20.71                | 0-3                       | 3        |
|            |            | 36      | 39        | 20.43                    | 20.25                | 20.77                | 20.40                | 20.78                | 0-3                       | 3        |
|            |            | 75      | 0         | 20.59                    | 20.29                | 20.94                | 20.49                | 20.75                | 0-3                       | 3        |

LTE Band 41 \_ 20 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch. 2506.0 MHz     | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 23.11                    | 22.81                | 23.43                | 23.09                | 22.98                | 0                         | 0        |
|            |            | 1       | 49        | 22.99                    | 22.73                | 23.36                | 22.96                | 23.21                | 0                         | 0        |
|            |            | 1       | 99        | 22.68                    | 22.75                | 23.11                | 22.76                | 23.20                | 0                         | 0        |
|            |            | 50      | 0         | 22.62                    | 22.36                | 22.98                | 22.51                | 22.67                | 0-1                       | 1        |
|            |            | 50      | 25        | 22.53                    | 22.35                | 22.94                | 22.49                | 22.71                | 0-1                       | 1        |
|            |            | 50      | 49        | 22.46                    | 22.34                | 22.82                | 22.41                | 22.76                | 0-1                       | 1        |
|            | 16QAM      | 100     | 0         | 22.53                    | 22.33                | 22.89                | 22.46                | 22.70                | 0-1                       | 1        |
|            |            | 1       | 0         | 22.24                    | 21.79                | 22.42                | 21.94                | 22.02                | 0-1                       | 1        |
|            |            | 1       | 49        | 22.06                    | 21.89                | 22.53                | 22.07                | 22.24                | 0-1                       | 1        |
|            |            | 1       | 99        | 21.79                    | 21.84                | 22.19                | 21.82                | 22.24                | 0-1                       | 1        |
|            |            | 50      | 0         | 21.63                    | 21.37                | 21.97                | 21.55                | 21.67                | 0-2                       | 2        |
|            |            | 50      | 25        | 21.55                    | 21.39                | 21.95                | 21.51                | 21.71                | 0-2                       | 2        |
|            | 64QAM      | 50      | 49        | 21.43                    | 21.35                | 21.82                | 21.43                | 21.76                | 0-2                       | 2        |
|            |            | 100     | 0         | 21.50                    | 21.32                | 21.90                | 21.47                | 21.69                | 0-2                       | 2        |
|            |            | 1       | 0         | 20.81                    | 20.60                | 21.06                | 20.57                | 20.68                | 0-2                       | 2        |
|            |            | 1       | 49        | 20.66                    | 20.67                | 21.11                | 20.69                | 20.91                | 0-2                       | 2        |
|            |            | 1       | 99        | 20.46                    | 20.53                | 20.81                | 20.44                | 20.92                | 0-2                       | 2        |
|            |            | 50      | 0         | 20.60                    | 20.35                | 20.98                | 20.49                | 20.67                | 0-3                       | 3        |
|            | 64QAM      | 50      | 25        | 20.52                    | 20.35                | 20.92                | 20.51                | 20.70                | 0-3                       | 3        |
|            |            | 50      | 49        | 20.46                    | 20.30                | 20.80                | 20.40                | 20.75                | 0-3                       | 3        |
|            |            | 100     | 0         | 20.50                    | 20.31                | 20.89                | 20.43                | 20.69                | 0-3                       | 3        |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[ LTE Band 41 Conducted Power ] - Power Class 2**

LTE Band 41\_ 5 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                         |                         |                         |                         | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch.<br>2498.5 MHz  | 40148 Ch.<br>2545.8 MHz | 40620 Ch.<br>2593.0 MHz | 41093 Ch.<br>2640.3 MHz | 41565 Ch.<br>2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 26.37                    | 25.75                   | 26.48                   | 26.06                   | 25.63                   | 0                        | 0        |
|            |            | 1       | 12        | 26.23                    | 25.73                   | 26.43                   | 25.83                   | 25.60                   | 0                        | 0        |
|            |            | 1       | 24        | 26.05                    | 25.76                   | 26.42                   | 25.70                   | 25.70                   | 0                        | 0        |
|            |            | 12      | 0         | 25.41                    | 24.71                   | 25.53                   | 25.41                   | 25.57                   | 0-1                      | 1        |
|            |            | 12      | 6         | 25.34                    | 24.68                   | 25.47                   | 25.36                   | 25.58                   | 0-1                      | 1        |
|            |            | 12      | 11        | 25.33                    | 24.67                   | 25.46                   | 25.33                   | 25.59                   | 0-1                      | 1        |
|            | 16QAM      | 25      | 0         | 25.36                    | 24.74                   | 25.49                   | 25.36                   | 25.59                   | 0-1                      | 1        |
|            |            | 1       | 0         | 25.56                    | 24.91                   | 25.64                   | 25.51                   | 25.11                   | 0-1                      | 1        |
|            |            | 1       | 12        | 25.46                    | 24.88                   | 25.64                   | 25.51                   | 25.16                   | 0-1                      | 1        |
|            |            | 1       | 24        | 25.40                    | 24.94                   | 25.59                   | 25.43                   | 25.22                   | 0-1                      | 1        |
|            |            | 12      | 0         | 24.46                    | 23.77                   | 24.57                   | 24.48                   | 24.60                   | 0-2                      | 2        |
|            |            | 12      | 6         | 24.39                    | 23.72                   | 24.51                   | 24.43                   | 24.59                   | 0-2                      | 2        |
|            | 64QAM      | 12      | 11        | 24.37                    | 23.73                   | 24.51                   | 24.39                   | 24.61                   | 0-2                      | 2        |
|            |            | 25      | 0         | 24.44                    | 23.81                   | 24.55                   | 24.44                   | 24.61                   | 0-2                      | 2        |
|            |            | 1       | 0         | 24.45                    | 23.73                   | 24.52                   | 24.41                   | 24.17                   | 0-2                      | 2        |
|            |            | 1       | 12        | 24.36                    | 23.71                   | 24.52                   | 24.37                   | 24.09                   | 0-2                      | 2        |
|            |            | 1       | 24        | 24.25                    | 23.75                   | 24.48                   | 24.30                   | 24.25                   | 0-2                      | 2        |
|            |            | 12      | 0         | 23.54                    | 22.85                   | 23.66                   | 23.56                   | 23.70                   | 0-3                      | 3        |
|            | 12         | 6       | 23.46     | 22.79                    | 23.59                   | 23.52                   | 23.69                   | 0-3                     | 3                        |          |
|            | 12         | 11      | 23.46     | 22.77                    | 23.57                   | 23.46                   | 23.69                   | 0-3                     | 3                        |          |
|            | 25         | 0       | 23.47     | 22.90                    | 23.60                   | 23.49                   | 23.72                   | 0-3                     | 3                        |          |

LTE Band 41\_ 10 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                       |                       |                       |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch.<br>2501 MHz    | 40160 Ch.<br>2547 MHz | 40620 Ch.<br>2593 MHz | 41080 Ch.<br>2639 MHz | 41540 Ch.<br>2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 26.32                    | 25.70                 | 26.48                 | 26.22                 | 25.38                 | 0                         | 0        |
|            |            | 1       | 24        | 26.16                    | 25.75                 | 26.43                 | 25.98                 | 25.57                 | 0                         | 0        |
|            |            | 1       | 49        | 26.14                    | 25.81                 | 26.37                 | 25.81                 | 25.86                 | 0                         | 0        |
|            |            | 25      | 0         | 25.28                    | 24.71                 | 25.53                 | 25.44                 | 25.47                 | 0-1                       | 1        |
|            |            | 25      | 12        | 25.23                    | 24.75                 | 25.51                 | 25.40                 | 25.54                 | 0-1                       | 1        |
|            |            | 25      | 24        | 25.23                    | 24.78                 | 25.47                 | 25.35                 | 25.61                 | 0-1                       | 1        |
|            | 16QAM      | 50      | 0         | 25.29                    | 24.75                 | 25.52                 | 25.43                 | 25.54                 | 0-1                       | 1        |
|            |            | 1       | 0         | 25.53                    | 24.90                 | 25.66                 | 25.48                 | 24.99                 | 0-1                       | 1        |
|            |            | 1       | 24        | 25.38                    | 24.95                 | 25.64                 | 25.48                 | 25.15                 | 0-1                       | 1        |
|            |            | 1       | 49        | 25.35                    | 25.00                 | 25.58                 | 25.16                 | 25.20                 | 0-1                       | 1        |
|            |            | 25      | 0         | 24.38                    | 23.78                 | 24.59                 | 24.50                 | 24.52                 | 0-2                       | 2        |
|            |            | 25      | 12        | 24.32                    | 23.78                 | 24.56                 | 24.48                 | 24.53                 | 0-2                       | 2        |
|            | 64QAM      | 25      | 24        | 24.30                    | 23.83                 | 24.53                 | 24.42                 | 24.64                 | 0-2                       | 2        |
|            |            | 50      | 0         | 24.36                    | 23.83                 | 24.59                 | 24.50                 | 24.60                 | 0-2                       | 2        |
|            |            | 1       | 0         | 24.39                    | 23.70                 | 24.54                 | 24.42                 | 23.89                 | 0-2                       | 2        |
|            |            | 1       | 24        | 24.22                    | 23.76                 | 24.49                 | 24.37                 | 24.01                 | 0-2                       | 2        |
|            |            | 1       | 49        | 24.20                    | 23.81                 | 24.44                 | 24.24                 | 24.08                 | 0-2                       | 2        |
|            |            | 25      | 0         | 23.44                    | 22.87                 | 23.63                 | 23.57                 | 23.64                 | 0-3                       | 3        |
|            | 25         | 12      | 23.38     | 22.88                    | 23.64                 | 23.55                 | 23.68                 | 0-3                   | 3                         |          |
|            | 25         | 24      | 23.36     | 22.91                    | 23.60                 | 23.48                 | 23.73                 | 0-3                   | 3                         |          |
|            | 50         | 0       | 23.36     | 22.79                    | 23.58                 | 23.49                 | 23.64                 | 0-3                   | 3                         |          |

LTE Band 41 \_ 15 MHz Bandwidth- Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                         |                         |                         |                         | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch.<br>2503.5 MHz  | 40173 Ch.<br>2548.3 MHz | 40620 Ch.<br>2593.0 MHz | 41068 Ch.<br>2637.8 MHz | 41515 Ch.<br>2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 26.26                    | 25.69                   | 26.46                   | 26.36                   | 25.38                   | 0                         | 0        |
|            |            | 1       | 36        | 26.13                    | 25.78                   | 26.39                   | 26.08                   | 25.44                   | 0                         | 0        |
|            |            | 1       | 74        | 26.07                    | 25.87                   | 26.31                   | 25.90                   | 25.90                   | 0                         | 0        |
|            |            | 36      | 0         | 25.25                    | 24.72                   | 25.53                   | 25.46                   | 25.39                   | 0-1                       | 1        |
|            |            | 36      | 18        | 25.19                    | 24.73                   | 25.47                   | 25.39                   | 25.46                   | 0-1                       | 1        |
|            |            | 36      | 39        | 25.20                    | 24.81                   | 25.42                   | 25.35                   | 25.58                   | 0-1                       | 1        |
|            |            | 75      | 0         | 25.25                    | 24.80                   | 25.50                   | 25.45                   | 25.47                   | 0-1                       | 1        |
|            | 16QAM      | 1       | 0         | 25.47                    | 24.89                   | 25.67                   | 25.61                   | 24.87                   | 0-1                       | 1        |
|            |            | 1       | 36        | 25.32                    | 24.94                   | 25.63                   | 25.52                   | 25.05                   | 0-1                       | 1        |
|            |            | 1       | 74        | 25.27                    | 25.07                   | 25.54                   | 25.27                   | 25.19                   | 0-1                       | 1        |
|            |            | 36      | 0         | 24.29                    | 23.75                   | 24.55                   | 24.50                   | 24.36                   | 0-2                       | 2        |
|            |            | 36      | 18        | 24.23                    | 23.75                   | 24.50                   | 24.45                   | 24.48                   | 0-2                       | 2        |
|            |            | 36      | 39        | 24.22                    | 23.84                   | 24.45                   | 24.37                   | 24.55                   | 0-2                       | 2        |
|            |            | 75      | 0         | 24.29                    | 23.84                   | 24.54                   | 24.47                   | 24.58                   | 0-2                       | 2        |
|            | 64QAM      | 1       | 0         | 24.35                    | 23.70                   | 24.54                   | 24.48                   | 23.77                   | 0-2                       | 2        |
|            |            | 1       | 36        | 24.20                    | 23.77                   | 24.50                   | 24.40                   | 23.97                   | 0-2                       | 2        |
|            |            | 1       | 74        | 24.12                    | 23.89                   | 24.39                   | 24.19                   | 24.07                   | 0-2                       | 2        |
|            |            | 36      | 0         | 23.33                    | 22.82                   | 23.61                   | 23.55                   | 23.48                   | 0-3                       | 3        |
| 36         |            | 18      | 23.28     | 22.74                    | 23.56                   | 23.49                   | 23.58                   | 0-3                     | 3                         |          |
| 36         |            | 39      | 23.27     | 22.88                    | 23.50                   | 23.41                   | 23.63                   | 0-3                     | 3                         |          |
| 75         |            | 0       | 23.33     | 22.84                    | 23.57                   | 23.50                   | 23.58                   | 0-3                     | 3                         |          |

LTE Band 41 \_ 20 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                         |                         |                         |                         | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|--------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch.<br>2506.0 MHz  | 40185 Ch.<br>2549.5 MHz | 40620 Ch.<br>2593.0 MHz | 41055 Ch.<br>2636.5 MHz | 41490 Ch.<br>2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 26.26                    | 25.72                   | 26.46                   | 26.41                   | 25.42                   | 0                         | 0        |
|            |            | 1       | 49        | 26.17                    | 25.80                   | 26.42                   | 26.21                   | 25.48                   | 0                         | 0        |
|            |            | 1       | 99        | 26.07                    | 25.91                   | 26.27                   | 25.76                   | 25.73                   | 0                         | 0        |
|            |            | 50      | 0         | 25.26                    | 24.79                   | 25.60                   | 25.52                   | 25.37                   | 0-1                       | 1        |
|            |            | 50      | 25        | 25.23                    | 24.85                   | 25.54                   | 25.49                   | 25.42                   | 0-1                       | 1        |
|            |            | 50      | 49        | 25.25                    | 24.90                   | 25.48                   | 25.34                   | 25.55                   | 0-1                       | 1        |
|            |            | 100     | 0         | 25.27                    | 24.86                   | 25.52                   | 25.45                   | 25.33                   | 0-1                       | 1        |
|            | 16QAM      | 1       | 0         | 25.46                    | 24.91                   | 25.65                   | 25.59                   | 24.72                   | 0-1                       | 1        |
|            |            | 1       | 49        | 25.38                    | 25.01                   | 25.65                   | 25.57                   | 25.03                   | 0-1                       | 1        |
|            |            | 1       | 99        | 25.26                    | 25.11                   | 25.46                   | 25.27                   | 25.12                   | 0-1                       | 1        |
|            |            | 50      | 0         | 24.32                    | 23.85                   | 24.67                   | 24.60                   | 24.45                   | 0-2                       | 2        |
|            |            | 50      | 25        | 24.30                    | 23.90                   | 24.60                   | 24.56                   | 24.51                   | 0-2                       | 2        |
|            |            | 50      | 49        | 24.31                    | 23.96                   | 24.55                   | 24.42                   | 24.63                   | 0-2                       | 2        |
|            |            | 100     | 0         | 24.31                    | 23.91                   | 24.56                   | 24.49                   | 24.48                   | 0-2                       | 2        |
|            | 64QAM      | 1       | 0         | 24.33                    | 23.72                   | 24.51                   | 24.46                   | 23.65                   | 0-2                       | 2        |
|            |            | 1       | 49        | 24.23                    | 23.81                   | 24.51                   | 24.42                   | 24.15                   | 0-2                       | 2        |
|            |            | 1       | 99        | 24.09                    | 23.93                   | 24.34                   | 24.15                   | 24.18                   | 0-2                       | 2        |
|            |            | 50      | 0         | 23.34                    | 22.89                   | 23.65                   | 23.60                   | 23.44                   | 0-3                       | 3        |
| 50         |            | 25      | 23.31     | 22.92                    | 23.60                   | 23.57                   | 23.53                   | 0-3                     | 3                         |          |
| 50         |            | 49      | 23.31     | 22.94                    | 23.54                   | 23.41                   | 23.60                   | 0-3                     | 3                         |          |
| 100        |            | 0       | 23.33     | 22.88                    | 23.56                   | 23.49                   | 23.52                   | 0-3                     | 3                         |          |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[ LTE Band 48 Conducted Power]**

LTE Band 48\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55265 Ch. 3552.5 MHz     | 55748 Ch. 3600.8 MHz | 56232 Ch. 3649.2 MHz | 56715 Ch. 3697.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 23.93                    | 23.12                | 22.97                | 23.29                | 0                         | 0        |
|           |            | 1       | 12        | 23.90                    | 23.14                | 22.95                | 23.23                | 0                         | 0        |
|           |            | 1       | 24        | 23.81                    | 23.17                | 23.00                | 23.28                | 0                         | 0        |
|           |            | 12      | 0         | 22.87                    | 22.11                | 21.95                | 22.27                | 0-1                       | 1        |
|           |            | 12      | 6         | 22.89                    | 22.10                | 21.94                | 22.25                | 0-1                       | 1        |
|           |            | 12      | 11        | 22.85                    | 22.09                | 21.93                | 22.26                | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 22.89                    | 22.11                | 21.96                | 22.28                | 0-1                       | 1        |
|           |            | 1       | 0         | 22.97                    | 22.17                | 22.01                | 22.35                | 0-1                       | 1        |
|           |            | 1       | 12        | 22.92                    | 22.20                | 22.01                | 22.30                | 0-1                       | 1        |
|           |            | 1       | 24        | 22.87                    | 22.23                | 22.05                | 22.37                | 0-1                       | 1        |
|           |            | 12      | 0         | 21.79                    | 21.03                | 20.88                | 21.22                | 0-2                       | 2        |
|           |            | 12      | 6         | 21.81                    | 21.04                | 20.85                | 21.20                | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 21.77                    | 21.02                | 20.88                | 21.21                | 0-2                       | 2        |
|           |            | 25      | 0         | 21.89                    | 21.09                | 20.95                | 21.28                | 0-2                       | 2        |
|           |            | 1       | 0         | 21.58                    | 20.78                | 20.64                | 20.97                | 0-2                       | 2        |
|           |            | 1       | 12        | 21.53                    | 20.82                | 20.64                | 20.95                | 0-2                       | 2        |
|           |            | 1       | 24        | 21.50                    | 20.86                | 20.67                | 20.95                | 0-2                       | 2        |
|           |            | 12      | 0         | 20.87                    | 20.13                | 19.97                | 20.28                | 0-3                       | 3        |
|           |            | 12      | 6         | 20.85                    | 20.11                | 19.93                | 20.26                | 0-3                       | 3        |
|           |            | 12      | 11        | 20.83                    | 20.10                | 19.93                | 20.26                | 0-3                       | 3        |
|           |            | 25      | 0         | 20.90                    | 20.17                | 19.98                | 20.30                | 0-3                       | 3        |

LTE Band 48\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 55290Ch. 3555 MHz        | 55757 Ch. 3601.7 MHz | 56223 Ch. 3648.3 MHz | 56690 Ch. 3695 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 23.89                    | 23.09                | 22.91                | 23.22              | 0                         | 0        |
|           |            | 1       | 24        | 23.82                    | 23.11                | 22.94                | 23.23              | 0                         | 0        |
|           |            | 1       | 49        | 23.70                    | 23.14                | 22.98                | 23.24              | 0                         | 0        |
|           |            | 25      | 0         | 22.87                    | 22.09                | 21.92                | 22.25              | 0-1                       | 1        |
|           |            | 25      | 12        | 22.81                    | 22.08                | 21.95                | 22.27              | 0-1                       | 1        |
|           |            | 25      | 24        | 22.77                    | 22.14                | 21.93                | 22.26              | 0-1                       | 1        |
|           |            | 50      | 0         | 22.83                    | 22.13                | 21.94                | 22.31              | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.94                    | 22.17                | 21.97                | 22.33              | 0-1                       | 1        |
|           |            | 1       | 24        | 22.91                    | 22.21                | 22.03                | 22.33              | 0-1                       | 1        |
|           |            | 1       | 49        | 22.74                    | 22.20                | 22.03                | 22.33              | 0-1                       | 1        |
|           |            | 25      | 0         | 21.87                    | 21.11                | 20.94                | 21.26              | 0-2                       | 2        |
|           |            | 25      | 12        | 21.81                    | 21.12                | 20.95                | 21.26              | 0-2                       | 2        |
|           |            | 25      | 24        | 21.76                    | 21.11                | 20.93                | 21.25              | 0-2                       | 2        |
|           |            | 50      | 0         | 21.82                    | 21.15                | 20.94                | 21.29              | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.56                    | 20.78                | 20.59                | 20.92              | 0-2                       | 2        |
|           |            | 1       | 24        | 21.51                    | 20.80                | 20.61                | 20.94              | 0-2                       | 2        |
|           |            | 1       | 49        | 21.36                    | 20.83                | 20.65                | 20.94              | 0-2                       | 2        |
|           |            | 25      | 0         | 20.89                    | 20.17                | 20.00                | 20.27              | 0-3                       | 3        |
|           |            | 25      | 12        | 20.81                    | 20.16                | 20.00                | 20.29              | 0-3                       | 3        |
|           |            | 25      | 24        | 20.79                    | 20.17                | 19.97                | 20.27              | 0-3                       | 3        |
|           |            | 50      | 0         | 20.79                    | 20.16                | 19.94                | 20.28              | 0-3                       | 3        |

LTE Band 48 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55315Ch. 3557.5 MHz      | 55765 Ch. 3602.5 MHz | 56215 Ch. 3647.5 MHz | 56665 Ch. 3692.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.72                    | 23.01                | 22.83                | 23.17                | 0                         | 0        |
|           |            | 1       | 36        | 23.77                    | 23.15                | 22.93                | 23.20                | 0                         | 0        |
|           |            | 1       | 74        | 23.49                    | 23.08                | 22.91                | 23.17                | 0                         | 0        |
|           |            | 36      | 0         | 22.79                    | 22.05                | 21.88                | 22.21                | 0-1                       | 1        |
|           |            | 36      | 18        | 22.73                    | 22.08                | 21.87                | 22.24                | 0-1                       | 1        |
|           |            | 36      | 39        | 22.61                    | 22.10                | 21.91                | 22.23                | 0-1                       | 1        |
|           |            | 75      | 0         | 22.71                    | 22.11                | 21.93                | 22.27                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.84                    | 22.09                | 21.92                | 22.24                | 0-1                       | 1        |
|           |            | 1       | 36        | 22.85                    | 22.22                | 22.02                | 22.29                | 0-1                       | 1        |
|           |            | 1       | 74        | 22.56                    | 22.19                | 21.98                | 22.27                | 0-1                       | 1        |
|           |            | 36      | 0         | 21.74                    | 21.00                | 20.85                | 21.20                | 0-2                       | 2        |
|           |            | 36      | 18        | 21.70                    | 21.08                | 20.86                | 21.21                | 0-2                       | 2        |
|           |            | 36      | 39        | 21.60                    | 21.05                | 20.86                | 21.21                | 0-2                       | 2        |
|           |            | 75      | 0         | 21.71                    | 21.10                | 20.93                | 21.28                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.45                    | 20.70                | 20.54                | 20.88                | 0-2                       | 2        |
|           |            | 1       | 36        | 21.46                    | 20.85                | 20.63                | 20.91                | 0-2                       | 2        |
|           |            | 1       | 74        | 21.16                    | 20.77                | 20.59                | 20.89                | 0-2                       | 2        |
|           |            | 36      | 0         | 20.75                    | 20.05                | 19.90                | 20.20                | 0-3                       | 3        |
|           |            | 36      | 18        | 20.71                    | 20.08                | 19.89                | 20.23                | 0-3                       | 3        |
|           |            | 36      | 39        | 20.58                    | 20.10                | 19.88                | 20.24                | 0-3                       | 3        |
|           |            | 75      | 0         | 20.72                    | 20.11                | 19.95                | 20.27                | 0-3                       | 3        |

LTE Band 48 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55340Ch. 3560.0 MHz      | 55773 Ch. 3603.3 MHz | 56207 Ch. 3646.7 MHz | 56640 Ch. 3690.0 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.74                    | 22.99                | 22.88                | 23.16                | 0                         | 0        |
|           |            | 1       | 49        | 23.70                    | 23.16                | 22.97                | 23.28                | 0                         | 0        |
|           |            | 1       | 99        | 23.28                    | 23.08                | 22.88                | 23.20                | 0                         | 0        |
|           |            | 50      | 0         | 22.80                    | 22.08                | 21.96                | 22.30                | 0-1                       | 1        |
|           |            | 50      | 25        | 22.72                    | 22.15                | 21.94                | 22.30                | 0-1                       | 1        |
|           |            | 50      | 49        | 22.56                    | 22.16                | 21.97                | 22.31                | 0-1                       | 1        |
|           |            | 100     | 0         | 22.67                    | 22.11                | 21.96                | 22.28                | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.79                    | 22.03                | 21.92                | 22.22                | 0-1                       | 1        |
|           |            | 1       | 49        | 22.78                    | 22.24                | 22.01                | 22.34                | 0-1                       | 1        |
|           |            | 1       | 99        | 22.33                    | 22.15                | 21.95                | 22.26                | 0-1                       | 1        |
|           |            | 50      | 0         | 21.80                    | 21.09                | 20.96                | 21.29                | 0-2                       | 2        |
|           |            | 50      | 25        | 21.76                    | 21.13                | 20.97                | 21.32                | 0-2                       | 2        |
|           |            | 50      | 49        | 21.57                    | 21.14                | 20.96                | 21.31                | 0-2                       | 2        |
|           |            | 100     | 0         | 21.66                    | 21.11                | 20.95                | 21.27                | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.41                    | 20.66                | 20.53                | 20.84                | 0-2                       | 2        |
|           |            | 1       | 49        | 21.36                    | 20.86                | 20.62                | 20.96                | 0-2                       | 2        |
|           |            | 1       | 99        | 20.97                    | 20.75                | 20.56                | 20.86                | 0-2                       | 2        |
|           |            | 50      | 0         | 20.77                    | 20.10                | 19.94                | 20.27                | 0-3                       | 3        |
|           |            | 50      | 25        | 20.70                    | 20.16                | 19.94                | 20.31                | 0-3                       | 3        |
|           |            | 50      | 49        | 20.51                    | 20.15                | 19.95                | 20.28                | 0-3                       | 3        |
|           |            | 100     | 0         | 20.63                    | 20.11                | 19.94                | 20.23                | 0-3                       | 3        |

**[LTE Band 66 Conducted Power]**

LTE Band 66 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131979 Ch. 1710.7 MHz    | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 23.38                    | 23.84               | 24.25                 | 0                         | 0        |
|           |            | 1       | 3         | 23.41                    | 23.71               | 24.20                 | 0                         | 0        |
|           |            | 1       | 5         | 23.41                    | 23.70               | 24.14                 | 0                         | 0        |
|           |            | 3       | 0         | 23.43                    | 24.11               | 24.34                 | 0                         | 0        |
|           |            | 3       | 1         | 23.44                    | 24.13               | 24.32                 | 0                         | 0        |
|           |            | 3       | 3         | 23.44                    | 24.11               | 24.31                 | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 22.55                    | 23.11               | 23.33                 | 0-1                       | 1        |
|           |            | 1       | 0         | 22.30                    | 23.45               | 23.02                 | 0-1                       | 1        |
|           |            | 1       | 3         | 22.78                    | 23.36               | 23.10                 | 0-1                       | 1        |
|           |            | 1       | 5         | 22.31                    | 23.37               | 23.13                 | 0-1                       | 1        |
|           |            | 3       | 0         | 22.55                    | 23.10               | 23.36                 | 0-1                       | 1        |
|           |            | 3       | 1         | 22.62                    | 23.18               | 23.33                 | 0-1                       | 1        |
|           | 64QAM      | 3       | 3         | 22.59                    | 23.10               | 23.28                 | 0-1                       | 1        |
|           |            | 6       | 0         | 21.65                    | 22.32               | 22.51                 | 0-2                       | 2        |
|           |            | 1       | 0         | 21.68                    | 22.43               | 22.12                 | 0-2                       | 2        |
|           |            | 1       | 3         | 21.59                    | 22.40               | 22.07                 | 0-2                       | 2        |
|           |            | 1       | 5         | 21.70                    | 22.42               | 22.03                 | 0-2                       | 2        |
|           |            | 3       | 0         | 21.70                    | 22.35               | 22.53                 | 0-2                       | 2        |
|           |            | 3       | 1         | 21.71                    | 22.31               | 22.46                 | 0-2                       | 2        |
|           |            | 3       | 3         | 21.62                    | 22.30               | 22.50                 | 0-2                       | 2        |
|           |            | 6       | 0         | 20.56                    | 21.16               | 21.40                 | 0-3                       | 3        |

LTE Band 66 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131987 Ch. 1711.5 MHz    | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 23.41                    | 24.02               | 24.26                 | 0                         | 0        |
|           |            | 1       | 7         | 23.44                    | 24.12               | 24.30                 | 0                         | 0        |
|           |            | 1       | 14        | 23.43                    | 24.10               | 24.27                 | 0                         | 0        |
|           |            | 8       | 0         | 22.55                    | 23.03               | 23.28                 | 0-1                       | 1        |
|           |            | 8       | 3         | 22.50                    | 23.10               | 23.29                 | 0-1                       | 1        |
|           |            | 8       | 7         | 22.57                    | 23.08               | 23.25                 | 0-1                       | 1        |
|           |            | 15      | 0         | 22.58                    | 23.08               | 23.30                 | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.75                    | 23.39               | 23.55                 | 0-1                       | 1        |
|           |            | 1       | 7         | 22.85                    | 23.39               | 23.51                 | 0-1                       | 1        |
|           |            | 1       | 14        | 22.82                    | 23.33               | 23.58                 | 0-1                       | 1        |
|           |            | 8       | 0         | 21.64                    | 22.20               | 22.53                 | 0-2                       | 2        |
|           |            | 8       | 3         | 21.67                    | 22.31               | 22.49                 | 0-2                       | 2        |
|           |            | 8       | 7         | 21.63                    | 22.30               | 22.48                 | 0-2                       | 2        |
|           |            | 15      | 0         | 21.58                    | 22.25               | 22.49                 | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.68                    | 22.36               | 22.55                 | 0-2                       | 2        |
|           |            | 1       | 7         | 21.77                    | 22.49               | 22.61                 | 0-2                       | 2        |
|           |            | 1       | 14        | 21.69                    | 22.38               | 22.52                 | 0-2                       | 2        |
|           |            | 8       | 0         | 20.60                    | 21.21               | 21.46                 | 0-3                       | 3        |
|           |            | 8       | 3         | 20.57                    | 21.26               | 21.43                 | 0-3                       | 3        |
|           |            | 8       | 7         | 20.61                    | 21.28               | 21.47                 | 0-3                       | 3        |
|           |            | 8       | 0         | 20.56                    | 21.17               | 21.45                 | 0-3                       | 3        |

LTE Band 66 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                    |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|--------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131997 Ch. 1712.5 MHz    | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 23.43                    | 24.08              | 24.27                 | 0                         | 0        |
|           |            | 1       | 12        | 23.47                    | 24.16              | 24.31                 | 0                         | 0        |
|           |            | 1       | 24        | 23.49                    | 24.10              | 24.32                 | 0                         | 0        |
|           |            | 12      | 0         | 22.56                    | 23.08              | 23.33                 | 0-1                       | 1        |
|           |            | 12      | 6         | 22.62                    | 23.14              | 23.34                 | 0-1                       | 1        |
|           |            | 12      | 11        | 22.63                    | 23.14              | 23.32                 | 0-1                       | 1        |
|           | 16QAM      | 25      | 0         | 22.62                    | 23.09              | 23.35                 | 0-1                       | 1        |
|           |            | 1       | 0         | 22.81                    | 23.34              | 23.53                 | 0-1                       | 1        |
|           |            | 1       | 12        | 22.83                    | 23.47              | 23.61                 | 0-1                       | 1        |
|           |            | 1       | 24        | 22.82                    | 23.39              | 23.55                 | 0-1                       | 1        |
|           |            | 12      | 0         | 21.52                    | 22.21              | 22.46                 | 0-2                       | 2        |
|           |            | 12      | 6         | 21.62                    | 22.25              | 22.43                 | 0-2                       | 2        |
|           | 64QAM      | 12      | 11        | 21.62                    | 22.27              | 22.41                 | 0-2                       | 2        |
|           |            | 25      | 0         | 21.61                    | 22.26              | 22.50                 | 0-2                       | 2        |
|           |            | 1       | 0         | 21.74                    | 22.37              | 22.59                 | 0-2                       | 2        |
|           |            | 1       | 12        | 21.76                    | 22.42              | 22.58                 | 0-2                       | 2        |
|           |            | 1       | 24        | 21.75                    | 22.36              | 22.57                 | 0-2                       | 2        |
|           |            | 12      | 0         | 20.52                    | 21.22              | 21.50                 | 0-3                       | 3        |
|           |            | 12      | 6         | 20.58                    | 21.28              | 21.47                 | 0-3                       | 3        |
|           |            | 12      | 11        | 20.64                    | 21.23              | 21.47                 | 0-3                       | 3        |
|           | 25         | 0       | 20.57     | 21.25                    | 21.49              | 0-3                   | 3                         |          |

LTE Band 66 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132022 Ch. 1715 MHz      | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 23.45                    | 24.07               | 24.19               | 0                         | 0        |
|           |            | 1       | 24        | 23.51                    | 24.15               | 24.29               | 0                         | 0        |
|           |            | 1       | 49        | 23.59                    | 24.15               | 24.28               | 0                         | 0        |
|           |            | 25      | 0         | 22.54                    | 23.10               | 23.33               | 0-1                       | 1        |
|           |            | 25      | 12        | 22.66                    | 23.17               | 23.31               | 0-1                       | 1        |
|           |            | 25      | 24        | 22.78                    | 23.20               | 23.32               | 0-1                       | 1        |
|           |            | 50      | 0         | 22.68                    | 23.19               | 23.35               | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.86                    | 23.23               | 23.53               | 0-1                       | 1        |
|           |            | 1       | 24        | 22.98                    | 23.47               | 23.49               | 0-1                       | 1        |
|           |            | 1       | 49        | 22.73                    | 23.44               | 23.53               | 0-1                       | 1        |
|           |            | 25      | 0         | 21.54                    | 22.25               | 22.49               | 0-2                       | 2        |
|           |            | 25      | 12        | 21.67                    | 22.31               | 22.48               | 0-2                       | 2        |
|           |            | 25      | 24        | 21.80                    | 22.37               | 22.52               | 0-2                       | 2        |
|           |            | 50      | 0         | 21.67                    | 22.29               | 22.47               | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.78                    | 22.29               | 22.42               | 0-2                       | 2        |
|           |            | 1       | 24        | 21.82                    | 22.41               | 22.54               | 0-2                       | 2        |
|           |            | 1       | 49        | 21.92                    | 22.44               | 22.52               | 0-2                       | 2        |
|           |            | 25      | 0         | 20.53                    | 21.23               | 21.45               | 0-3                       | 3        |
|           |            | 25      | 12        | 20.66                    | 21.27               | 21.44               | 0-3                       | 3        |
|           |            | 25      | 24        | 20.74                    | 21.36               | 21.47               | 0-3                       | 3        |
|           |            | 25      | 0         | 20.66                    | 21.30               | 21.46               | 0-3                       | 3        |



LTE Band 66 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 132047 Ch. 1717.5 MHz    | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 23.35                    | 23.92               | 24.07                 | 0                         | 0        |
|           |            | 1       | 36        | 23.54                    | 24.12               | 24.23                 | 0                         | 0        |
|           |            | 1       | 74        | 23.63                    | 24.12               | 24.21                 | 0                         | 0        |
|           |            | 36      | 0         | 22.54                    | 23.07               | 23.21                 | 0-1                       | 1        |
|           |            | 36      | 18        | 22.69                    | 23.11               | 23.23                 | 0-1                       | 1        |
|           |            | 36      | 39        | 22.66                    | 23.12               | 23.32                 | 0-1                       | 1        |
|           |            | 75      | 0         | 22.70                    | 23.11               | 23.31                 | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.79                    | 23.17               | 23.35                 | 0-1                       | 1        |
|           |            | 1       | 36        | 22.96                    | 23.35               | 23.53                 | 0-1                       | 1        |
|           |            | 1       | 74        | 22.85                    | 23.44               | 23.48                 | 0-1                       | 1        |
|           |            | 36      | 0         | 21.49                    | 22.15               | 22.42                 | 0-2                       | 2        |
|           |            | 36      | 18        | 21.72                    | 22.23               | 22.36                 | 0-2                       | 2        |
|           |            | 36      | 39        | 21.85                    | 22.25               | 22.46                 | 0-2                       | 2        |
|           |            | 75      | 0         | 21.65                    | 22.27               | 22.39                 | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.64                    | 22.22               | 22.48                 | 0-2                       | 2        |
|           |            | 1       | 36        | 21.86                    | 22.43               | 22.50                 | 0-2                       | 2        |
|           |            | 1       | 74        | 22.00                    | 22.43               | 22.47                 | 0-2                       | 2        |
|           |            | 36      | 0         | 20.53                    | 21.18               | 21.34                 | 0-3                       | 3        |
|           |            | 36      | 18        | 20.67                    | 21.24               | 21.38                 | 0-3                       | 3        |
|           |            | 36      | 39        | 20.85                    | 21.27               | 21.45                 | 0-3                       | 3        |
|           |            | 75      | 0         | 20.62                    | 21.18               | 21.38                 | 0-3                       | 3        |

LTE Band 66 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132072 Ch. 1720 MHz      | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 23.36                    | 23.87               | 24.06               | 0                         | 0        |
|           |            | 1       | 49        | 23.62                    | 24.14               | 24.22               | 0                         | 0        |
|           |            | 1       | 99        | 23.76                    | 24.16               | 24.24               | 0                         | 0        |
|           |            | 50      | 0         | 22.55                    | 23.06               | 23.26               | 0-1                       | 1        |
|           |            | 50      | 25        | 22.68                    | 23.20               | 23.26               | 0-1                       | 1        |
|           |            | 50      | 49        | 22.71                    | 23.21               | 23.28               | 0-1                       | 1        |
|           |            | 100     | 0         | 22.58                    | 23.11               | 23.23               | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 22.77                    | 23.08               | 23.32               | 0-1                       | 1        |
|           |            | 1       | 49        | 22.95                    | 23.40               | 23.56               | 0-1                       | 1        |
|           |            | 1       | 99        | 23.00                    | 23.33               | 23.44               | 0-1                       | 1        |
|           |            | 50      | 0         | 21.51                    | 22.14               | 22.35               | 0-2                       | 2        |
|           |            | 50      | 25        | 21.80                    | 22.27               | 22.37               | 0-2                       | 2        |
|           |            | 50      | 49        | 21.87                    | 22.30               | 22.36               | 0-2                       | 2        |
|           |            | 100     | 0         | 21.72                    | 22.22               | 22.32               | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 21.64                    | 22.07               | 22.34               | 0-2                       | 2        |
|           |            | 1       | 49        | 21.91                    | 22.42               | 22.56               | 0-2                       | 2        |
|           |            | 1       | 99        | 22.02                    | 22.37               | 22.42               | 0-2                       | 2        |
|           |            | 50      | 0         | 20.50                    | 21.10               | 21.30               | 0-3                       | 3        |
|           |            | 50      | 25        | 20.76                    | 21.26               | 21.40               | 0-3                       | 3        |
|           |            | 50      | 49        | 20.84                    | 21.26               | 21.37               | 0-3                       | 3        |
|           |            | 100     | 0         | 20.67                    | 21.20               | 21.33               | 0-3                       | 3        |

**[ LTE Band 71 Conducted Power]**

LTE Band 71\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|----------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 133147 Ch. 665.5 MHz     | 133297 Ch. 680.5 MHz | 133447 Ch. 695.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 24.45                    | 24.30                | 24.40                | 0                         | 0        |   |
|           |            | 1       | 12        | 24.40                    | 24.24                | 24.42                | 0                         | 0        |   |
|           |            | 1       | 24        | 24.33                    | 24.20                | 24.44                | 0                         | 0        |   |
|           |            | 12      | 0         | 23.38                    | 23.23                | 23.36                | 0-1                       | 1        |   |
|           |            | 12      | 6         | 23.43                    | 23.19                | 23.39                | 0-1                       | 1        |   |
|           |            | 12      | 11        | 23.44                    | 23.23                | 23.39                | 0-1                       | 1        |   |
|           | 16QAM      | 25      | 0         | 23.41                    | 23.23                | 23.40                | 0-1                       | 1        |   |
|           |            | 1       | 0         | 23.78                    | 23.63                | 23.77                | 0-1                       | 1        |   |
|           |            | 1       | 12        | 23.69                    | 23.64                | 23.82                | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.56                    | 23.52                | 23.82                | 0-1                       | 1        |   |
|           |            | 12      | 0         | 22.36                    | 22.20                | 22.37                | 0-2                       | 2        |   |
|           |            | 12      | 6         | 22.38                    | 22.24                | 22.39                | 0-2                       | 2        |   |
|           | 64QAM      | 12      | 11        | 22.42                    | 22.21                | 22.36                | 0-2                       | 2        |   |
|           |            | 25      | 0         | 22.44                    | 22.19                | 22.39                | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.64                    | 22.38                | 22.57                | 0-2                       | 2        |   |
|           |            | 1       | 12        | 22.52                    | 22.45                | 22.60                | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.49                    | 22.42                | 22.50                | 0-2                       | 2        |   |
|           |            | 12      | 0         | 21.36                    | 21.21                | 21.35                | 0-3                       | 3        |   |
|           |            | 64QAM   | 12        | 6                        | 21.38                | 21.23                | 21.35                     | 0-3      | 3 |
|           |            |         | 12        | 11                       | 21.41                | 21.21                | 21.36                     | 0-3      | 3 |
|           |            | 25      | 0         | 21.44                    | 21.25                | 21.38                | 0-3                       | 3        |   |

LTE Band 71\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|--------------------------|----------------------|--------------------|---------------------------|----------|---|
|           |            |         |           | 133172 Ch. 668 MHz       | 133297 Ch. 680.5 MHz | 133422 Ch. 693 MHz |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 24.47                    | 24.36                | 24.32              | 0                         | 0        |   |
|           |            | 1       | 24        | 24.41                    | 24.29                | 24.47              | 0                         | 0        |   |
|           |            | 1       | 49        | 24.31                    | 24.22                | 24.38              | 0                         | 0        |   |
|           |            | 25      | 0         | 23.22                    | 23.30                | 23.44              | 0-1                       | 1        |   |
|           |            | 25      | 12        | 23.41                    | 23.25                | 23.39              | 0-1                       | 1        |   |
|           |            | 25      | 24        | 23.28                    | 23.26                | 23.42              | 0-1                       | 1        |   |
|           | 16QAM      | 50      | 0         | 23.32                    | 23.27                | 23.46              | 0-1                       | 1        |   |
|           |            | 1       | 0         | 23.71                    | 23.65                | 23.62              | 0-1                       | 1        |   |
|           |            | 1       | 24        | 23.72                    | 23.71                | 23.73              | 0-1                       | 1        |   |
|           |            | 1       | 49        | 23.60                    | 23.48                | 23.75              | 0-1                       | 1        |   |
|           |            | 25      | 0         | 22.23                    | 22.23                | 22.41              | 0-2                       | 2        |   |
|           |            | 25      | 12        | 22.37                    | 22.24                | 22.35              | 0-2                       | 2        |   |
|           | 64QAM      | 25      | 24        | 22.26                    | 22.21                | 22.39              | 0-2                       | 2        |   |
|           |            | 50      | 0         | 22.27                    | 22.23                | 22.43              | 0-2                       | 2        |   |
|           |            | 1       | 0         | 22.56                    | 22.41                | 22.49              | 0-2                       | 2        |   |
|           |            | 1       | 24        | 22.51                    | 22.48                | 22.55              | 0-2                       | 2        |   |
|           |            | 1       | 49        | 22.53                    | 22.37                | 22.58              | 0-2                       | 2        |   |
|           |            | 25      | 0         | 21.24                    | 21.27                | 21.42              | 0-3                       | 3        |   |
|           |            | 64QAM   | 25        | 12                       | 21.36                | 21.23              | 21.42                     | 0-3      | 3 |
|           |            |         | 25        | 24                       | 21.30                | 21.22              | 21.38                     | 0-3      | 3 |
|           |            | 50      | 0         | 21.29                    | 21.24                | 21.41              | 0-3                       | 3        |   |

LTE Band 71 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 133297 Ch.<br>680.5 MHz  |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 24.28                    | 0                         | 0        |
|           |            | 1       | 36        | 24.23                    | 0                         | 0        |
|           |            | 1       | 74        | 24.25                    | 0                         | 0        |
|           |            | 36      | 0         | 23.21                    | 0-1                       | 1        |
|           |            | 36      | 18        | 23.21                    | 0-1                       | 1        |
|           |            | 36      | 39        | 23.20                    | 0-1                       | 1        |
|           |            | 75      | 0         | 23.18                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.67                    | 0-1                       | 1        |
|           |            | 1       | 36        | 23.58                    | 0-1                       | 1        |
|           |            | 1       | 74        | 23.58                    | 0-1                       | 1        |
|           |            | 36      | 0         | 22.22                    | 0-2                       | 2        |
|           |            | 36      | 18        | 22.19                    | 0-2                       | 2        |
|           |            | 36      | 39        | 22.17                    | 0-2                       | 2        |
|           |            | 75      | 0         | 22.19                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.49                    | 0-2                       | 2        |
|           |            | 1       | 36        | 22.46                    | 0-2                       | 2        |
|           |            | 1       | 74        | 22.38                    | 0-2                       | 2        |
|           |            | 36      | 0         | 21.23                    | 0-3                       | 3        |
|           |            | 36      | 18        | 21.20                    | 0-3                       | 3        |
|           |            | 36      | 39        | 21.18                    | 0-3                       | 3        |
|           |            | 75      | 0         | 21.14                    | 0-3                       | 3        |

LTE Band 71 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Max. Average Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|--------------------------|---------------------------|----------|
|           |            |         |           | 133297 Ch.<br>680.5 MHz  |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 24.29                    | 0                         | 0        |
|           |            | 1       | 49        | 24.25                    | 0                         | 0        |
|           |            | 1       | 99        | 24.21                    | 0                         | 0        |
|           |            | 50      | 0         | 23.25                    | 0-1                       | 1        |
|           |            | 50      | 25        | 23.26                    | 0-1                       | 1        |
|           |            | 50      | 49        | 23.20                    | 0-1                       | 1        |
|           |            | 100     | 0         | 23.25                    | 0-1                       | 1        |
|           | 16QAM      | 1       | 0         | 23.54                    | 0-1                       | 1        |
|           |            | 1       | 49        | 23.53                    | 0-1                       | 1        |
|           |            | 1       | 99        | 23.59                    | 0-1                       | 1        |
|           |            | 50      | 0         | 22.20                    | 0-2                       | 2        |
|           |            | 50      | 25        | 22.22                    | 0-2                       | 2        |
|           |            | 50      | 49        | 22.22                    | 0-2                       | 2        |
|           |            | 100     | 0         | 22.20                    | 0-2                       | 2        |
|           | 64QAM      | 1       | 0         | 22.43                    | 0-2                       | 2        |
|           |            | 1       | 49        | 22.36                    | 0-2                       | 2        |
|           |            | 1       | 99        | 22.39                    | 0-2                       | 2        |
|           |            | 50      | 0         | 21.21                    | 0-3                       | 3        |
|           |            | 50      | 25        | 21.22                    | 0-3                       | 3        |
|           |            | 50      | 49        | 21.21                    | 0-3                       | 3        |
|           |            | 100     | 0         | 21.20                    | 0-3                       | 3        |

**11.4.2 LTE Reduced Conducted Power(Hotspot activated)**  
**[ LTE Band 2 Conducted Power\_ Hotspot activated ]**

LTE Band 2 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18607 Ch. 1850.7 MHz | 18900 Ch. 1880 MHz | 19193 Ch. 1909.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 20.40                | 19.91              | 20.25                | 0                         | 0        |
|           |            | 1       | 3         | 20.42                | 20.33              | 20.23                | 0                         | 0        |
|           |            | 1       | 5         | 20.40                | 20.37              | 19.82                | 0                         | 0        |
|           |            | 3       | 0         | 20.47                | 20.38              | 20.26                | 0                         | 0        |
|           |            | 3       | 1         | 20.46                | 20.36              | 20.27                | 0                         | 0        |
|           |            | 3       | 3         | 20.46                | 20.38              | 20.26                | 0                         | 0        |
|           |            | 6       | 0         | 20.44                | 20.39              | 20.29                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.68                | 20.59              | 20.25                | 0-1                       | 0        |
|           |            | 1       | 3         | 20.79                | 20.63              | 20.05                | 0-1                       | 0        |
|           |            | 1       | 5         | 20.70                | 20.62              | 20.36                | 0-1                       | 0        |
|           |            | 3       | 0         | 20.41                | 20.41              | 20.25                | 0-1                       | 0        |
|           |            | 3       | 1         | 20.50                | 20.42              | 20.33                | 0-1                       | 0        |
|           |            | 3       | 3         | 20.43                | 20.38              | 20.27                | 0-1                       | 0        |
|           |            | 6       | 0         | 20.56                | 20.48              | 20.39                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.67                | 20.08              | 19.95                | 0-2                       | 0        |
|           |            | 1       | 3         | 20.66                | 20.50              | 19.85                | 0-2                       | 0        |
|           |            | 1       | 5         | 20.66                | 20.55              | 19.85                | 0-2                       | 0        |
|           |            | 3       | 0         | 20.55                | 20.49              | 20.37                | 0-2                       | 0        |
|           |            | 3       | 1         | 20.53                | 20.46              | 20.37                | 0-2                       | 0        |
|           |            | 3       | 3         | 20.54                | 20.49              | 20.40                | 0-2                       | 0        |
|           |            | 6       | 0         | 20.46                | 20.37              | 20.27                | 0-3                       | 0        |

LTE Band 2 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18615 Ch. 1851.5 MHz | 18900 Ch. 1880 MHz | 19185 Ch. 1908.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 20.45                | 20.37              | 20.24                | 0                         | 0        |
|           |            | 1       | 7         | 20.41                | 20.40              | 20.24                | 0                         | 0        |
|           |            | 1       | 14        | 20.46                | 20.34              | 20.28                | 0                         | 0        |
|           |            | 8       | 0         | 20.44                | 20.38              | 20.25                | 0-1                       | 0        |
|           |            | 8       | 3         | 20.45                | 20.34              | 20.29                | 0-1                       | 0        |
|           |            | 8       | 7         | 20.47                | 20.35              | 20.26                | 0-1                       | 0        |
|           |            | 15      | 0         | 20.49                | 20.35              | 20.32                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.77                | 20.72              | 20.59                | 0-1                       | 0        |
|           |            | 1       | 7         | 20.66                | 20.62              | 20.60                | 0-1                       | 0        |
|           |            | 1       | 14        | 20.67                | 20.69              | 20.51                | 0-1                       | 0        |
|           |            | 8       | 0         | 20.55                | 20.49              | 20.34                | 0-2                       | 0        |
|           |            | 8       | 3         | 20.58                | 20.49              | 20.36                | 0-2                       | 0        |
|           |            | 8       | 7         | 20.54                | 20.46              | 20.37                | 0-2                       | 0        |
|           |            | 15      | 0         | 20.54                | 20.41              | 20.32                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.67                | 20.57              | 20.42                | 0-2                       | 0        |
|           |            | 1       | 7         | 20.60                | 20.56              | 20.40                | 0-2                       | 0        |
|           |            | 1       | 14        | 20.64                | 20.59              | 20.44                | 0-2                       | 0        |
|           |            | 8       | 0         | 20.54                | 20.43              | 20.31                | 0-3                       | 0        |
|           |            | 8       | 3         | 20.52                | 20.42              | 20.37                | 0-3                       | 0        |
|           |            | 8       | 7         | 20.51                | 20.40              | 20.36                | 0-3                       | 0        |
|           |            | 15      | 0         | 20.50                | 20.37              | 20.34                | 0-3                       | 0        |

LTE Band 2 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18625 Ch. 1852.5 MHz | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.50                | 20.44              | 20.29                | 0                         | 0        |
|           |            | 1       | 12        | 20.52                | 20.47              | 20.32                | 0                         | 0        |
|           |            | 1       | 24        | 20.47                | 20.41              | 20.26                | 0                         | 0        |
|           |            | 12      | 0         | 20.49                | 20.45              | 20.38                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.52                | 20.42              | 20.30                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.54                | 20.41              | 20.32                | 0-1                       | 0        |
|           |            | 25      | 0         | 20.49                | 20.44              | 20.30                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.77                | 20.66              | 20.66                | 0-1                       | 0        |
|           |            | 1       | 12        | 20.74                | 20.78              | 20.56                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.79                | 20.59              | 20.52                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.53                | 20.44              | 20.38                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.51                | 20.41              | 20.33                | 0-2                       | 0        |
|           |            | 12      | 11        | 20.53                | 20.42              | 20.30                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.51                | 20.44              | 20.38                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.62                | 20.61              | 20.50                | 0-2                       | 0        |
|           |            | 1       | 12        | 20.63                | 20.64              | 20.50                | 0-2                       | 0        |
|           |            | 1       | 24        | 20.65                | 20.58              | 20.48                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.56                | 20.46              | 20.38                | 0-3                       | 0        |
|           |            | 12      | 6         | 20.51                | 20.44              | 20.36                | 0-3                       | 0        |
|           |            | 12      | 11        | 20.53                | 20.43              | 20.32                | 0-3                       | 0        |
| 25        |            | 0       | 20.50     | 20.49                | 20.37              | 0-3                  | 0                         |          |

LTE Band 2 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18650 Ch. 1855 MHz  | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.46               | 20.39              | 20.31              | 0                         | 0        |
|           |            | 1       | 24        | 20.52               | 20.46              | 20.32              | 0                         | 0        |
|           |            | 1       | 49        | 20.45               | 20.40              | 20.32              | 0                         | 0        |
|           |            | 25      | 0         | 20.48               | 20.42              | 20.43              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.54               | 20.43              | 20.33              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.51               | 20.41              | 20.27              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.55               | 20.43              | 20.31              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.80               | 20.60              | 20.58              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.78               | 20.69              | 20.68              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.75               | 20.67              | 20.63              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.53               | 20.44              | 20.45              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.56               | 20.43              | 20.33              | 0-2                       | 0        |
|           |            | 25      | 24        | 20.53               | 20.44              | 20.34              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.50               | 20.44              | 20.39              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.64               | 20.52              | 20.53              | 0-2                       | 0        |
|           |            | 1       | 24        | 20.66               | 20.64              | 20.54              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.59               | 20.48              | 20.48              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.50               | 20.45              | 20.49              | 0-3                       | 0        |
|           |            | 25      | 12        | 20.56               | 20.47              | 20.32              | 0-3                       | 0        |
|           |            | 25      | 24        | 20.53               | 20.45              | 20.31              | 0-3                       | 0        |
| 50        |            | 0       | 20.57     | 20.45               | 20.34              | 0-3                | 0                         |          |

LTE Band 2 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18675 Ch. 1857.5 MHz | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.41                | 20.45              | 20.33                | 0                         | 0        |
|           |            | 1       | 36        | 20.51                | 20.53              | 20.37                | 0                         | 0        |
|           |            | 1       | 74        | 20.38                | 20.37              | 20.24                | 0                         | 0        |
|           |            | 36      | 0         | 20.45                | 20.43              | 20.22                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.35                | 20.42              | 20.28                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.33                | 20.36              | 20.22                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.38                | 20.29              | 20.32                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.44                | 20.43              | 20.31                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.51                | 20.50              | 20.50                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.41                | 20.39              | 20.30                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.50                | 20.45              | 20.42                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.51                | 20.46              | 20.37                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.50                | 20.41              | 20.35                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.53                | 20.47              | 20.36                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.56                | 20.52              | 20.41                | 0-2                       | 0        |
|           |            | 1       | 36        | 20.66                | 20.56              | 20.53                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.59                | 20.48              | 20.39                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.53                | 20.49              | 20.41                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.51                | 20.45              | 20.35                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.47                | 20.43              | 20.28                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.52                | 20.41              | 20.37                | 0-3                       | 0        |

LTE Band 2 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18700 Ch. 1860 MHz  | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.39               | 20.38              | 20.29              | 0                         | 0        |
|           |            | 1       | 49        | 20.48               | 20.45              | 20.30              | 0                         | 0        |
|           |            | 1       | 99        | 20.36               | 20.22              | 20.22              | 0                         | 0        |
|           |            | 50      | 0         | 20.49               | 20.47              | 20.36              | 0-1                       | 0        |
|           |            | 50      | 25        | 20.54               | 20.42              | 20.33              | 0-1                       | 0        |
|           |            | 50      | 49        | 20.53               | 20.42              | 20.22              | 0-1                       | 0        |
|           |            | 100     | 0         | 20.48               | 20.41              | 20.25              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.65               | 20.59              | 20.54              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.79               | 20.67              | 20.62              | 0-1                       | 0        |
|           |            | 1       | 99        | 20.66               | 20.44              | 20.54              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.50               | 20.47              | 20.32              | 0-2                       | 0        |
|           |            | 50      | 25        | 20.55               | 20.47              | 20.39              | 0-2                       | 0        |
|           |            | 50      | 49        | 20.56               | 20.39              | 20.24              | 0-2                       | 0        |
|           |            | 100     | 0         | 20.47               | 20.42              | 20.26              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.54               | 20.52              | 20.43              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.67               | 20.65              | 20.54              | 0-2                       | 0        |
|           |            | 1       | 99        | 20.53               | 20.39              | 20.38              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.48               | 20.46              | 20.34              | 0-3                       | 0        |
|           |            | 50      | 25        | 20.53               | 20.45              | 20.38              | 0-3                       | 0        |
|           |            | 50      | 49        | 20.52               | 20.45              | 20.22              | 0-3                       | 0        |
|           |            | 100     | 0         | 20.51               | 20.44              | 20.26              | 0-3                       | 0        |

**[ LTE Band 4 Conducted Power\_ Hotspot activated ]**

LTE Band 4 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19957 Ch. 1710.7 MHz | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 19.58                | 20.20                | 20.76                | 0                         | 0        |
|           |            | 1       | 3         | 19.59                | 20.25                | 20.76                | 0                         | 0        |
|           |            | 1       | 5         | 19.57                | 20.19                | 20.74                | 0                         | 0        |
|           |            | 3       | 0         | 19.61                | 20.22                | 20.76                | 0                         | 0        |
|           |            | 3       | 1         | 19.63                | 20.21                | 20.75                | 0                         | 0        |
|           |            | 3       | 3         | 19.64                | 20.24                | 20.77                | 0                         | 0        |
|           |            | 6       | 0         | 19.64                | 20.26                | 20.78                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.93                | 20.59                | 21.00                | 0-1                       | 0        |
|           |            | 1       | 3         | 20.01                | 20.51                | 21.11                | 0-1                       | 0        |
|           |            | 1       | 5         | 19.95                | 20.52                | 21.11                | 0-1                       | 0        |
|           |            | 3       | 0         | 19.64                | 20.15                | 20.81                | 0-1                       | 0        |
|           |            | 3       | 1         | 19.68                | 20.28                | 20.73                | 0-1                       | 0        |
|           |            | 3       | 3         | 19.67                | 20.20                | 20.78                | 0-1                       | 0        |
|           |            | 6       | 0         | 19.75                | 20.37                | 20.84                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.80                | 20.43                | 20.89                | 0-2                       | 0        |
|           |            | 1       | 3         | 19.77                | 20.35                | 20.93                | 0-2                       | 0        |
|           |            | 1       | 5         | 19.77                | 20.33                | 21.03                | 0-2                       | 0        |
|           |            | 3       | 0         | 19.79                | 20.35                | 20.87                | 0-2                       | 0        |
|           |            | 3       | 1         | 19.78                | 20.31                | 20.86                | 0-2                       | 0        |
|           |            | 3       | 3         | 19.71                | 20.37                | 20.92                | 0-2                       | 0        |
|           |            | 6       | 0         | 19.57                | 20.27                | 20.76                | 0-3                       | 0        |

LTE Band 4 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19965 Ch. 1711.5 MHz | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 19.61                | 20.15                | 20.72                | 0                         | 0        |
|           |            | 1       | 7         | 19.62                | 20.27                | 20.76                | 0                         | 0        |
|           |            | 1       | 14        | 19.60                | 20.20                | 20.76                | 0                         | 0        |
|           |            | 8       | 0         | 19.59                | 20.19                | 20.78                | 0-1                       | 0        |
|           |            | 8       | 3         | 19.61                | 20.24                | 20.77                | 0-1                       | 0        |
|           |            | 8       | 7         | 19.60                | 20.22                | 20.76                | 0-1                       | 0        |
|           |            | 15      | 0         | 19.67                | 20.19                | 20.78                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.87                | 20.47                | 21.06                | 0-1                       | 0        |
|           |            | 1       | 7         | 19.90                | 20.48                | 21.15                | 0-1                       | 0        |
|           |            | 1       | 14        | 20.01                | 20.47                | 21.08                | 0-1                       | 0        |
|           |            | 8       | 0         | 19.72                | 20.24                | 20.83                | 0-2                       | 0        |
|           |            | 8       | 3         | 19.72                | 20.35                | 20.84                | 0-2                       | 0        |
|           |            | 8       | 7         | 19.69                | 20.28                | 20.86                | 0-2                       | 0        |
|           |            | 15      | 0         | 19.66                | 20.21                | 20.82                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.78                | 20.31                | 20.91                | 0-2                       | 0        |
|           |            | 1       | 7         | 19.86                | 20.36                | 20.95                | 0-2                       | 0        |
|           |            | 1       | 14        | 19.82                | 20.36                | 21.00                | 0-2                       | 0        |
|           |            | 8       | 0         | 19.66                | 20.22                | 20.85                | 0-3                       | 0        |
|           |            | 8       | 3         | 19.71                | 20.29                | 20.82                | 0-3                       | 0        |
|           |            | 8       | 7         | 19.69                | 20.26                | 20.81                | 0-3                       | 0        |
|           |            | 15      | 0         | 19.69                | 20.23                | 20.80                | 0-3                       | 0        |

LTE Band 4 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19975 Ch. 1712.5 MHz | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 19.67                | 20.20                | 20.72                | 0                         | 0        |
|           |            | 1       | 12        | 19.70                | 20.26                | 20.78                | 0                         | 0        |
|           |            | 1       | 24        | 19.73                | 20.30                | 20.81                | 0                         | 0        |
|           |            | 12      | 0         | 19.62                | 20.19                | 20.76                | 0-1                       | 0        |
|           |            | 12      | 6         | 19.64                | 20.24                | 20.79                | 0-1                       | 0        |
|           |            | 12      | 11        | 19.74                | 20.24                | 20.75                | 0-1                       | 0        |
|           |            | 25      | 0         | 19.66                | 20.25                | 20.79                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.02                | 20.47                | 21.04                | 0-1                       | 0        |
|           |            | 1       | 12        | 19.91                | 20.60                | 21.12                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.04                | 20.56                | 20.94                | 0-1                       | 0        |
|           |            | 12      | 0         | 19.65                | 20.24                | 20.75                | 0-2                       | 0        |
|           |            | 12      | 6         | 19.67                | 20.25                | 20.80                | 0-2                       | 0        |
|           |            | 12      | 11        | 19.73                | 20.21                | 20.76                | 0-2                       | 0        |
|           |            | 25      | 0         | 19.71                | 20.30                | 20.80                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.87                | 20.35                | 20.91                | 0-2                       | 0        |
|           |            | 1       | 12        | 19.82                | 20.37                | 20.93                | 0-2                       | 0        |
|           |            | 1       | 24        | 19.85                | 20.44                | 20.91                | 0-2                       | 0        |
|           |            | 12      | 0         | 19.61                | 20.28                | 20.78                | 0-3                       | 0        |
|           |            | 12      | 6         | 19.70                | 20.26                | 20.81                | 0-3                       | 0        |
|           |            | 12      | 11        | 19.72                | 20.29                | 20.80                | 0-3                       | 0        |
|           |            | 25      | 0         | 19.69                | 20.27                | 20.79                | 0-3                       | 0        |

LTE Band 4 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20000 Ch. 1715 MHz  | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 19.62               | 20.16                | 20.55              | 0                         | 0        |
|           |            | 1       | 24        | 19.73               | 20.26                | 20.76              | 0                         | 0        |
|           |            | 1       | 49        | 19.91               | 20.32                | 20.78              | 0                         | 0        |
|           |            | 25      | 0         | 19.54               | 20.18                | 20.65              | 0-1                       | 0        |
|           |            | 25      | 12        | 19.72               | 20.23                | 20.78              | 0-1                       | 0        |
|           |            | 25      | 24        | 19.87               | 20.34                | 20.74              | 0-1                       | 0        |
|           |            | 50      | 0         | 19.77               | 20.30                | 20.77              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.87               | 20.33                | 20.83              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.05               | 20.62                | 21.10              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.13               | 20.55                | 21.06              | 0-1                       | 0        |
|           |            | 25      | 0         | 19.56               | 20.22                | 20.68              | 0-2                       | 0        |
|           |            | 25      | 12        | 19.75               | 20.23                | 20.77              | 0-2                       | 0        |
|           |            | 25      | 24        | 19.87               | 20.33                | 20.77              | 0-2                       | 0        |
|           |            | 50      | 0         | 19.76               | 20.26                | 20.73              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.71               | 20.29                | 20.70              | 0-2                       | 0        |
|           |            | 1       | 24        | 19.89               | 20.41                | 20.92              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.07               | 20.45                | 20.91              | 0-2                       | 0        |
|           |            | 25      | 0         | 19.61               | 20.17                | 20.67              | 0-3                       | 0        |
|           |            | 25      | 12        | 19.72               | 20.28                | 20.76              | 0-3                       | 0        |
|           |            | 25      | 24        | 19.85               | 20.32                | 20.76              | 0-3                       | 0        |
|           |            | 50      | 0         | 19.76               | 20.30                | 20.73              | 0-3                       | 0        |



LTE Band 4 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20025 Ch. 1717.5 MHz | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 19.54                | 20.00                | 20.42                | 0                         | 0        |
|           |            | 1       | 36        | 19.78                | 20.24                | 20.69                | 0                         | 0        |
|           |            | 1       | 74        | 20.00                | 20.33                | 20.69                | 0                         | 0        |
|           |            | 36      | 0         | 19.55                | 20.08                | 20.46                | 0-1                       | 0        |
|           |            | 36      | 18        | 19.76                | 20.25                | 20.67                | 0-1                       | 0        |
|           |            | 36      | 39        | 19.90                | 20.28                | 20.73                | 0-1                       | 0        |
|           |            | 75      | 0         | 19.80                | 20.28                | 20.67                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.92                | 20.39                | 20.71                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.06                | 20.50                | 20.97                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.14                | 20.70                | 20.85                | 0-1                       | 0        |
|           |            | 36      | 0         | 19.61                | 20.17                | 20.56                | 0-2                       | 0        |
|           |            | 36      | 18        | 19.76                | 20.22                | 20.64                | 0-2                       | 0        |
|           |            | 36      | 39        | 19.93                | 20.34                | 20.70                | 0-2                       | 0        |
|           |            | 75      | 0         | 19.78                | 20.26                | 20.62                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.72                | 20.20                | 20.63                | 0-2                       | 0        |
|           |            | 1       | 36        | 19.96                | 20.45                | 20.85                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.08                | 20.58                | 20.78                | 0-2                       | 0        |
|           |            | 36      | 0         | 19.62                | 20.20                | 20.51                | 0-3                       | 0        |
|           |            | 36      | 18        | 19.80                | 20.21                | 20.67                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.02                | 20.35                | 20.73                | 0-3                       | 0        |
|           |            | 75      | 0         | 19.76                | 20.28                | 20.66                | 0-3                       | 0        |

LTE Band 4 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
|           |            |         |           | 20175 Ch. 1732.5 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 19.92                | 0                         | 0        |
|           |            | 1       | 49        | 20.24                | 0                         | 0        |
|           |            | 1       | 99        | 20.39                | 0                         | 0        |
|           |            | 50      | 0         | 20.14                | 0-1                       | 0        |
|           |            | 50      | 25        | 20.28                | 0-1                       | 0        |
|           |            | 50      | 49        | 20.40                | 0-1                       | 0        |
|           |            | 100     | 0         | 20.26                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.16                | 0-1                       | 0        |
|           |            | 1       | 49        | 20.54                | 0-1                       | 0        |
|           |            | 1       | 99        | 20.59                | 0-1                       | 0        |
|           |            | 50      | 0         | 20.12                | 0-2                       | 0        |
|           |            | 50      | 25        | 20.30                | 0-2                       | 0        |
|           |            | 50      | 49        | 20.36                | 0-2                       | 0        |
|           |            | 100     | 0         | 20.24                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.10                | 0-2                       | 0        |
|           |            | 1       | 49        | 20.42                | 0-2                       | 0        |
|           |            | 1       | 99        | 20.56                | 0-2                       | 0        |
|           |            | 50      | 0         | 20.12                | 0-3                       | 0        |
|           |            | 50      | 25        | 20.27                | 0-3                       | 0        |
|           |            | 50      | 49        | 20.32                | 0-3                       | 0        |
|           |            | 100     | 0         | 20.27                | 0-3                       | 0        |

**[LTE Band 7 Conducted Power \_ Hotspot activated]**

LTE Band 7\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 17.43                | 17.84              | 18.14                | 0                         | 0        |   |
|           |            | 1       | 12        | 17.53                | 17.84              | 18.16                | 0                         | 0        |   |
|           |            | 1       | 24        | 17.51                | 17.78              | 18.20                | 0                         | 0        |   |
|           |            | 12      | 0         | 17.48                | 17.77              | 18.17                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 17.49                | 17.77              | 18.17                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 17.51                | 17.76              | 18.18                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 17.46                | 17.78              | 18.21                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 17.72                | 18.13              | 18.40                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 17.81                | 18.01              | 18.49                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 17.80                | 17.98              | 18.45                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 17.44                | 17.82              | 18.16                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 17.51                | 17.82              | 18.17                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 17.46                | 17.81              | 18.19                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 17.54                | 17.82              | 18.18                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 17.59                | 17.99              | 18.33                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 17.68                | 17.97              | 18.40                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 17.76                | 17.95              | 18.41                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 17.47                | 17.85              | 18.23                | 0-3                       | 0        |   |
|           |            |         | 12        | 6                    | 17.48              | 17.82                | 18.19                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 17.54              | 17.75                | 18.20                     | 0-3      | 0 |
|           |            |         | 25        | 0                    | 17.55              | 17.82                | 18.20                     | 0-3      | 0 |

LTE Band 7\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|---|
|           |            |         |           | 20800 Ch. 2505 MHz  | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 17.40               | 17.83              | 18.02              | 0                         | 0        |   |
|           |            | 1       | 24        | 17.55               | 17.82              | 18.14              | 0                         | 0        |   |
|           |            | 1       | 49        | 17.62               | 17.79              | 18.15              | 0                         | 0        |   |
|           |            | 25      | 0         | 17.45               | 17.79              | 18.07              | 0-1                       | 0        |   |
|           |            | 25      | 12        | 17.55               | 17.80              | 18.12              | 0-1                       | 0        |   |
|           |            | 25      | 24        | 17.61               | 17.76              | 18.16              | 0-1                       | 0        |   |
|           | 16QAM      | 50      | 0         | 17.39               | 17.80              | 18.02              | 0-1                       | 0        |   |
|           |            | 1       | 0         | 17.63               | 18.14              | 18.20              | 0-1                       | 0        |   |
|           |            | 1       | 24        | 17.88               | 18.02              | 18.47              | 0-1                       | 0        |   |
|           |            | 1       | 49        | 17.79               | 18.10              | 18.50              | 0-1                       | 0        |   |
|           |            | 25      | 0         | 17.43               | 17.78              | 18.03              | 0-2                       | 0        |   |
|           |            | 25      | 12        | 17.52               | 17.81              | 18.15              | 0-2                       | 0        |   |
|           | 64QAM      | 25      | 24        | 17.58               | 17.82              | 18.14              | 0-2                       | 0        |   |
|           |            | 50      | 0         | 17.70               | 18.06              | 18.31              | 0-2                       | 0        |   |
|           |            | 1       | 0         | 17.47               | 17.96              | 18.14              | 0-2                       | 0        |   |
|           |            | 1       | 24        | 17.72               | 17.89              | 18.23              | 0-2                       | 0        |   |
|           |            | 1       | 49        | 17.72               | 17.86              | 18.30              | 0-2                       | 0        |   |
|           |            | 25      | 0         | 17.46               | 17.86              | 18.07              | 0-3                       | 0        |   |
|           |            |         | 25        | 12                  | 17.58              | 17.83              | 18.09                     | 0-3      | 0 |
|           |            |         | 25        | 24                  | 17.62              | 17.80              | 18.18                     | 0-3      | 0 |
|           |            |         | 50        | 0                   | 17.59              | 17.96              | 18.12                     | 0-3      | 0 |

LTE Band 7 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 17.40                | 17.76              | 17.89                | 0                         | 0        |
|           |            | 1       | 36        | 17.61                | 17.81              | 18.08                | 0                         | 0        |
|           |            | 1       | 74        | 17.68                | 17.73              | 18.09                | 0                         | 0        |
|           |            | 36      | 0         | 17.51                | 17.84              | 17.99                | 0-1                       | 0        |
|           |            | 36      | 18        | 17.56                | 17.80              | 18.09                | 0-1                       | 0        |
|           |            | 36      | 39        | 17.68                | 17.70              | 18.09                | 0-1                       | 0        |
|           |            | 75      | 0         | 17.39                | 17.74              | 17.89                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.72                | 17.97              | 18.22                | 0-1                       | 0        |
|           |            | 1       | 36        | 17.92                | 18.09              | 18.40                | 0-1                       | 0        |
|           |            | 1       | 74        | 17.97                | 17.94              | 18.37                | 0-1                       | 0        |
|           |            | 36      | 0         | 17.54                | 17.83              | 18.04                | 0-2                       | 0        |
|           |            | 36      | 18        | 17.62                | 17.86              | 18.11                | 0-2                       | 0        |
|           |            | 36      | 39        | 17.75                | 17.73              | 18.18                | 0-2                       | 0        |
|           |            | 75      | 0         | 17.71                | 18.06              | 18.14                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.58                | 17.99              | 18.01                | 0-2                       | 0        |
|           |            | 1       | 36        | 17.83                | 17.99              | 18.28                | 0-2                       | 0        |
|           |            | 1       | 74        | 17.87                | 17.88              | 18.27                | 0-2                       | 0        |
|           |            | 36      | 0         | 17.59                | 17.83              | 18.01                | 0-3                       | 0        |
|           |            | 36      | 18        | 17.66                | 17.83              | 18.10                | 0-3                       | 0        |
|           |            | 36      | 39        | 17.76                | 17.74              | 18.14                | 0-3                       | 0        |
|           |            | 75      | 0         | 17.57                | 17.84              | 18.12                | 0-3                       | 0        |

LTE Band 7 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20850 Ch. 2510 MHz  | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 17.37               | 17.76              | 17.71              | 0                         | 0        |
|           |            | 1       | 49        | 17.72               | 17.86              | 18.02              | 0                         | 0        |
|           |            | 1       | 99        | 17.71               | 17.66              | 18.04              | 0                         | 0        |
|           |            | 50      | 0         | 17.65               | 17.89              | 17.95              | 0-1                       | 0        |
|           |            | 50      | 25        | 17.68               | 17.81              | 18.05              | 0-1                       | 0        |
|           |            | 50      | 49        | 17.85               | 17.76              | 18.19              | 0-1                       | 0        |
|           |            | 100     | 0         | 17.36               | 17.78              | 17.78              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.59               | 18.13              | 18.05              | 0-1                       | 0        |
|           |            | 1       | 49        | 17.96               | 18.10              | 18.36              | 0-1                       | 0        |
|           |            | 1       | 99        | 18.03               | 17.98              | 18.25              | 0-1                       | 0        |
|           |            | 50      | 0         | 17.64               | 17.90              | 17.93              | 0-2                       | 0        |
|           |            | 50      | 25        | 17.68               | 17.87              | 18.03              | 0-2                       | 0        |
|           |            | 50      | 49        | 17.84               | 17.75              | 18.16              | 0-2                       | 0        |
|           |            | 100     | 0         | 17.66               | 17.98              | 18.08              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.46               | 17.88              | 17.89              | 0-2                       | 0        |
|           |            | 1       | 49        | 17.80               | 17.93              | 18.16              | 0-2                       | 0        |
|           |            | 1       | 99        | 17.80               | 17.86              | 18.21              | 0-2                       | 0        |
|           |            | 50      | 0         | 17.60               | 17.85              | 17.92              | 0-3                       | 0        |
|           |            | 50      | 25        | 17.66               | 17.86              | 18.03              | 0-3                       | 0        |
|           |            | 50      | 49        | 17.87               | 17.74              | 18.15              | 0-3                       | 0        |
|           |            | 100     | 0         | 17.49               | 17.92              | 17.99              | 0-3                       | 0        |

**[LTE Band 13 Conducted Power\_Hotspot activated]**

LTE Band 13\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz   |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 21.19               | 0                         | 0        |
|           |            | 1       | 24        | 21.17               | 0                         | 0        |
|           |            | 1       | 49        | 21.14               | 0                         | 0        |
|           |            | 25      | 0         | 21.17               | 0-1                       | 0        |
|           |            | 25      | 12        | 21.13               | 0-1                       | 0        |
|           |            | 25      | 24        | 21.13               | 0-1                       | 0        |
|           |            | 50      | 0         | 21.18               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.56               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.48               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.38               | 0-1                       | 0        |
|           |            | 25      | 0         | 21.18               | 0-2                       | 0        |
|           |            | 25      | 12        | 21.12               | 0-2                       | 0        |
|           |            | 25      | 24        | 21.11               | 0-2                       | 0        |
|           |            | 50      | 0         | 21.17               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.42               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.38               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.28               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.24               | 0-3                       | 0        |
|           |            | 25      | 12        | 21.13               | 0-3                       | 0        |
|           |            | 25      | 24        | 21.12               | 0-3                       | 0        |
|           |            | 50      | 0         | 21.20               | 0-3                       | 0        |

LTE Band 13\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz   |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 21.20               | 0                         | 0        |
|           |            | 1       | 24        | 21.18               | 0                         | 0        |
|           |            | 1       | 49        | 21.04               | 0                         | 0        |
|           |            | 25      | 0         | 21.11               | 0-1                       | 0        |
|           |            | 25      | 12        | 21.16               | 0-1                       | 0        |
|           |            | 25      | 24        | 21.11               | 0-1                       | 0        |
|           |            | 50      | 0         | 21.19               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.45               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.44               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.36               | 0-1                       | 0        |
|           |            | 25      | 0         | 21.09               | 0-2                       | 0        |
|           |            | 25      | 12        | 21.19               | 0-2                       | 0        |
|           |            | 25      | 24        | 21.08               | 0-2                       | 0        |
|           |            | 50      | 0         | 21.43               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.39               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.28               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.23               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.12               | 0-3                       | 0        |
|           |            | 25      | 12        | 21.19               | 0-3                       | 0        |
|           |            | 25      | 24        | 21.17               | 0-3                       | 0        |
|           |            | 50      | 0         | 21.40               | 0-3                       | 0        |

**[ LTE Band 14 conducted Power\_Hotspot activated]**

LTE Band 14\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                   |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|---------------------|-------------------|---------------------|---------------------------|----------|---|
|           |            |         |           | 23305 Ch. 790.5 MHz | 23330 Ch. 793 MHz | 23355 Ch. 795.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 21.13               | 21.15             | 21.27               | 0                         | 0        |   |
|           |            | 1       | 12        | 21.26               | 21.27             | 21.29               | 0                         | 0        |   |
|           |            | 1       | 24        | 21.22               | 21.21             | 21.28               | 0                         | 0        |   |
|           |            | 12      | 0         | 21.14               | 21.21             | 21.23               | 0-1                       | 0        |   |
|           |            | 12      | 6         | 21.19               | 21.20             | 21.23               | 0-1                       | 0        |   |
|           |            | 12      | 11        | 21.14               | 21.20             | 21.24               | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 21.19               | 21.22             | 21.23               | 0-1                       | 0        |   |
|           |            | 1       | 0         | 21.47               | 21.52             | 21.50               | 0-1                       | 0        |   |
|           |            | 1       | 12        | 21.54               | 21.60             | 21.56               | 0-1                       | 0        |   |
|           |            | 1       | 24        | 21.51               | 21.54             | 21.53               | 0-1                       | 0        |   |
|           |            | 12      | 0         | 21.19               | 21.17             | 21.27               | 0-2                       | 0        |   |
|           |            | 12      | 6         | 21.18               | 21.19             | 21.27               | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 21.17               | 21.23             | 21.21               | 0-2                       | 0        |   |
|           |            | 25      | 0         | 21.22               | 21.26             | 21.25               | 0-2                       | 0        |   |
|           |            | 1       | 0         | 21.28               | 21.39             | 21.38               | 0-2                       | 0        |   |
|           |            | 1       | 12        | 21.39               | 21.46             | 21.56               | 0-2                       | 0        |   |
|           |            | 1       | 24        | 21.42               | 21.43             | 21.55               | 0-2                       | 0        |   |
|           |            | 12      | 0         | 21.20               | 21.27             | 21.28               | 0-3                       | 0        |   |
|           |            |         | 12        | 6                   | 21.21             | 21.22               | 21.27                     | 0-3      | 0 |
|           |            |         | 12        | 11                  | 21.22             | 21.23               | 21.28                     | 0-3      | 0 |
|           |            |         | 25        | 0                   | 21.19             | 21.26               | 21.26                     | 0-3      | 0 |

LTE Band 14\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|---|
|           |            |         |           | 23330 Ch. 793 MHz   |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 21.12               | 0                         | 0        |   |
|           |            | 1       | 24        | 21.25               | 0                         | 0        |   |
|           |            | 1       | 49        | 21.27               | 0                         | 0        |   |
|           |            | 25      | 0         | 21.15               | 0-1                       | 0        |   |
|           |            | 25      | 12        | 21.17               | 0-1                       | 0        |   |
|           |            | 25      | 24        | 21.26               | 0-1                       | 0        |   |
|           | 16QAM      | 50      | 0         | 21.11               | 0-1                       | 0        |   |
|           |            | 1       | 0         | 21.47               | 0-1                       | 0        |   |
|           |            | 1       | 24        | 21.51               | 0-1                       | 0        |   |
|           |            | 1       | 49        | 21.53               | 0-1                       | 0        |   |
|           |            | 25      | 0         | 21.13               | 0-2                       | 0        |   |
|           |            | 25      | 12        | 21.24               | 0-2                       | 0        |   |
|           | 64QAM      | 25      | 24        | 21.21               | 0-2                       | 0        |   |
|           |            | 50      | 0         | 21.43               | 0-2                       | 0        |   |
|           |            | 1       | 0         | 21.34               | 0-2                       | 0        |   |
|           |            | 1       | 24        | 21.41               | 0-2                       | 0        |   |
|           |            | 1       | 49        | 21.44               | 0-2                       | 0        |   |
|           |            | 25      | 0         | 21.18               | 0-3                       | 0        |   |
|           |            |         | 25        | 12                  | 21.25                     | 0-3      | 0 |
|           |            |         | 25        | 24                  | 21.23                     | 0-3      | 0 |
|           |            |         | 50        | 0                   | 21.29                     | 0-3      | 0 |

**[ LTE Band 25 Conducted Power\_ Hotspot activated ]**

LTE Band 25\_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26047 Ch. 1850.7 MHz | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 20.85                | 20.76                | 20.59                | 0                         | 0        |
|           |            | 1       | 3         | 20.82                | 20.71                | 20.66                | 0                         | 0        |
|           |            | 1       | 5         | 20.81                | 20.70                | 20.63                | 0                         | 0        |
|           |            | 3       | 0         | 20.87                | 20.76                | 20.66                | 0                         | 0        |
|           |            | 3       | 1         | 20.87                | 20.74                | 20.69                | 0                         | 0        |
|           |            | 3       | 3         | 20.84                | 20.71                | 20.67                | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 20.85                | 20.75                | 20.68                | 0-1                       | 0        |
|           |            | 1       | 0         | 21.20                | 21.01                | 20.97                | 0-1                       | 0        |
|           |            | 1       | 3         | 21.08                | 21.04                | 20.87                | 0-1                       | 0        |
|           |            | 1       | 5         | 21.20                | 21.01                | 20.88                | 0-1                       | 0        |
|           |            | 3       | 0         | 20.91                | 20.69                | 20.69                | 0-1                       | 0        |
|           |            | 3       | 1         | 20.91                | 20.81                | 20.65                | 0-1                       | 0        |
|           | 64QAM      | 3       | 3         | 20.90                | 20.68                | 20.71                | 0-1                       | 0        |
|           |            | 6       | 0         | 21.00                | 20.85                | 20.80                | 0-2                       | 0        |
|           |            | 1       | 0         | 21.00                | 20.93                | 20.83                | 0-2                       | 0        |
|           |            | 1       | 3         | 21.04                | 20.92                | 20.84                | 0-2                       | 0        |
|           |            | 1       | 5         | 21.01                | 20.96                | 20.82                | 0-2                       | 0        |
|           |            | 3       | 0         | 20.95                | 20.89                | 20.76                | 0-2                       | 0        |
|           |            | 3       | 1         | 21.00                | 20.92                | 20.79                | 0-2                       | 0        |
|           |            | 3       | 3         | 20.95                | 20.88                | 20.79                | 0-2                       | 0        |
|           |            | 6       | 0         | 20.85                | 20.73                | 20.69                | 0-3                       | 0        |

LTE Band 25\_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|---------------------|---------------------------|----------|
|           |            |         |           | 26055 Ch. 1851.5 MHz | 26365 Ch. 1882.5 MHz | 26675Ch. 1913.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 20.84                | 20.76                | 20.62               | 0                         | 0        |
|           |            | 1       | 7         | 20.84                | 20.77                | 20.64               | 0                         | 0        |
|           |            | 1       | 14        | 20.81                | 20.75                | 20.63               | 0                         | 0        |
|           |            | 8       | 0         | 20.87                | 20.73                | 20.67               | 0-1                       | 0        |
|           |            | 8       | 3         | 20.86                | 20.73                | 20.62               | 0-1                       | 0        |
|           |            | 8       | 7         | 20.83                | 20.70                | 20.68               | 0-1                       | 0        |
|           |            | 15      | 0         | 20.87                | 20.73                | 20.67               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.18                | 21.09                | 20.90               | 0-1                       | 0        |
|           |            | 1       | 7         | 21.14                | 20.99                | 20.98               | 0-1                       | 0        |
|           |            | 1       | 14        | 21.15                | 20.97                | 20.97               | 0-1                       | 0        |
|           |            | 8       | 0         | 20.96                | 20.83                | 20.77               | 0-2                       | 0        |
|           |            | 8       | 3         | 20.96                | 20.86                | 20.75               | 0-2                       | 0        |
|           |            | 8       | 7         | 20.91                | 20.83                | 20.75               | 0-2                       | 0        |
|           |            | 15      | 0         | 20.92                | 20.71                | 20.72               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.06                | 20.87                | 20.88               | 0-2                       | 0        |
|           |            | 1       | 7         | 21.02                | 20.88                | 20.82               | 0-2                       | 0        |
|           |            | 1       | 14        | 21.10                | 20.83                | 20.83               | 0-2                       | 0        |
|           |            | 8       | 0         | 20.95                | 20.80                | 20.73               | 0-3                       | 0        |
|           |            | 8       | 3         | 20.91                | 20.81                | 20.70               | 0-3                       | 0        |
|           |            | 8       | 7         | 20.89                | 20.72                | 20.76               | 0-3                       | 0        |
|           |            | 15      | 0         | 20.89                | 20.72                | 20.69               | 0-3                       | 0        |

LTE Band 25\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26065 Ch. 1852.5 MHz | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.85                | 20.78                | 20.59                | 0                         | 0        |
|           |            | 1       | 12        | 20.90                | 20.79                | 20.65                | 0                         | 0        |
|           |            | 1       | 24        | 20.86                | 20.77                | 20.71                | 0                         | 0        |
|           |            | 12      | 0         | 20.91                | 20.79                | 20.65                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.89                | 20.80                | 20.70                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.91                | 20.72                | 20.68                | 0-1                       | 0        |
|           |            | 25      | 0         | 20.88                | 20.80                | 20.67                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.05                | 21.07                | 20.85                | 0-1                       | 0        |
|           |            | 1       | 12        | 21.10                | 21.04                | 20.93                | 0-1                       | 0        |
|           |            | 1       | 24        | 21.09                | 21.10                | 20.96                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.91                | 20.84                | 20.67                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.86                | 20.80                | 20.70                | 0-2                       | 0        |
|           |            | 12      | 11        | 20.89                | 20.76                | 20.68                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.96                | 20.79                | 20.73                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.04                | 20.96                | 20.74                | 0-2                       | 0        |
|           |            | 1       | 12        | 21.06                | 20.97                | 20.85                | 0-2                       | 0        |
|           |            | 1       | 24        | 21.00                | 20.97                | 20.88                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.94                | 20.88                | 20.71                | 0-3                       | 0        |
|           |            | 12      | 6         | 20.94                | 20.81                | 20.70                | 0-3                       | 0        |
|           |            | 12      | 11        | 20.94                | 20.76                | 20.70                | 0-3                       | 0        |
|           |            | 25      | 0         | 20.87                | 20.78                | 20.68                | 0-3                       | 0        |

LTE Band 25\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26090 Ch. 1855 MHz  | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.89               | 20.79                | 20.65              | 0                         | 0        |
|           |            | 1       | 24        | 20.88               | 20.79                | 20.66              | 0                         | 0        |
|           |            | 1       | 49        | 20.85               | 20.72                | 20.67              | 0                         | 0        |
|           |            | 25      | 0         | 20.85               | 20.78                | 20.69              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.91               | 20.81                | 20.69              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.92               | 20.81                | 20.70              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.88               | 20.82                | 20.70              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.22               | 21.07                | 20.95              | 0-1                       | 0        |
|           |            | 1       | 24        | 21.08               | 21.14                | 20.98              | 0-1                       | 0        |
|           |            | 1       | 49        | 21.13               | 20.96                | 20.99              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.92               | 20.83                | 20.73              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.94               | 20.82                | 20.66              | 0-2                       | 0        |
|           |            | 25      | 24        | 20.96               | 20.85                | 20.73              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.89               | 20.81                | 20.72              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.00               | 20.97                | 20.77              | 0-2                       | 0        |
|           |            | 1       | 24        | 21.04               | 21.02                | 20.85              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.96               | 20.86                | 20.77              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.87               | 20.84                | 20.73              | 0-3                       | 0        |
|           |            | 25      | 12        | 20.87               | 20.80                | 20.73              | 0-3                       | 0        |
|           |            | 25      | 24        | 20.91               | 20.85                | 20.78              | 0-3                       | 0        |
|           |            | 50      | 0         | 20.93               | 20.80                | 20.71              | 0-3                       | 0        |

LTE Band 25\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26115 Ch. 1857.5 MHz | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.78                | 20.76                | 20.54                | 0                         | 0        |
|           |            | 1       | 36        | 20.84                | 20.78                | 20.64                | 0                         | 0        |
|           |            | 1       | 74        | 20.72                | 20.68                | 20.61                | 0                         | 0        |
|           |            | 36      | 0         | 20.86                | 20.77                | 20.66                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.88                | 20.76                | 20.68                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.81                | 20.78                | 20.66                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.90                | 20.81                | 20.71                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.02                | 21.10                | 20.84                | 0-1                       | 0        |
|           |            | 1       | 36        | 21.09                | 21.13                | 20.91                | 0-1                       | 0        |
|           |            | 1       | 74        | 21.04                | 20.98                | 20.90                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.88                | 20.86                | 20.68                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.93                | 20.79                | 20.69                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.88                | 20.76                | 20.76                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.90                | 20.82                | 20.73                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.05                | 20.92                | 20.73                | 0-2                       | 0        |
|           |            | 1       | 36        | 21.04                | 20.91                | 20.77                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.88                | 20.90                | 20.79                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.91                | 20.81                | 20.76                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.95                | 20.80                | 20.67                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.89                | 20.81                | 20.71                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.88                | 20.79                | 20.69                | 0-3                       | 0        |

LTE Band 25\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26140 Ch. 1860 MHz  | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.76               | 20.72                | 20.49              | 0                         | 0        |
|           |            | 1       | 49        | 20.86               | 20.79                | 20.71              | 0                         | 0        |
|           |            | 1       | 99        | 20.72               | 20.57                | 20.56              | 0                         | 0        |
|           |            | 50      | 0         | 20.87               | 20.87                | 20.74              | 0-1                       | 0        |
|           |            | 50      | 25        | 20.88               | 20.81                | 20.67              | 0-1                       | 0        |
|           |            | 50      | 49        | 20.84               | 20.83                | 20.72              | 0-1                       | 0        |
|           |            | 100     | 0         | 20.83               | 20.84                | 20.76              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.06               | 20.99                | 20.75              | 0-1                       | 0        |
|           |            | 1       | 49        | 21.17               | 21.13                | 20.94              | 0-1                       | 0        |
|           |            | 1       | 99        | 21.02               | 20.85                | 20.91              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.83               | 20.85                | 20.77              | 0-2                       | 0        |
|           |            | 50      | 25        | 20.92               | 20.80                | 20.70              | 0-2                       | 0        |
|           |            | 50      | 49        | 20.85               | 20.82                | 20.69              | 0-2                       | 0        |
|           |            | 100     | 0         | 20.80               | 20.80                | 20.74              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.89               | 20.86                | 20.65              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.97               | 20.92                | 20.80              | 0-2                       | 0        |
|           |            | 1       | 99        | 20.85               | 20.67                | 20.73              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.88               | 20.81                | 20.76              | 0-3                       | 0        |
|           |            | 50      | 25        | 20.94               | 20.83                | 20.74              | 0-3                       | 0        |
|           |            | 50      | 49        | 20.82               | 20.81                | 20.70              | 0-3                       | 0        |
|           |            | 100     | 0         | 20.80               | 20.79                | 20.74              | 0-3                       | 0        |



**[ LTE Band 30 Conducted Power\_ Hotspot activated ]**

LTE Band 30\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 18.80                | 18.89              | 18.88                | 0                         | 0        |   |
|           |            | 1       | 12        | 18.91                | 18.89              | 18.92                | 0                         | 0        |   |
|           |            | 1       | 24        | 18.84                | 18.88              | 18.93                | 0                         | 0        |   |
|           |            | 12      | 0         | 18.80                | 18.85              | 18.88                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 18.82                | 18.84              | 18.86                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 18.86                | 18.86              | 18.86                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 18.89                | 18.85              | 18.87                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 19.16                | 19.23              | 19.10                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 19.14                | 19.18              | 19.25                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 19.20                | 19.14              | 19.23                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 18.87                | 18.89              | 18.90                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 18.86                | 18.84              | 18.88                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 18.87                | 18.85              | 18.87                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 18.92                | 18.89              | 18.88                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 19.03                | 19.08              | 19.09                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 19.03                | 19.09              | 19.12                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 19.02                | 19.06              | 19.05                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 18.88                | 18.90              | 18.90                | 0-3                       | 0        |   |
|           |            | 64QAM   | 12        | 6                    | 18.90              | 18.91                | 18.94                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 18.89              | 18.89                | 18.91                     | 0-3      | 0 |
|           |            |         | 25        | 0                    | 18.90              | 18.92                | 18.88                     | 0-3      | 0 |

LTE Band 30\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 27710 Ch. 2310 MHz  |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 18.83               | 0                         | 0        |
|           |            | 1       | 24        | 18.87               | 0                         | 0        |
|           |            | 1       | 49        | 18.84               | 0                         | 0        |
|           |            | 25      | 0         | 18.78               | 0-1                       | 0        |
|           |            | 25      | 12        | 18.82               | 0-1                       | 0        |
|           |            | 25      | 24        | 18.83               | 0-1                       | 0        |
|           |            | 50      | 0         | 18.82               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.18               | 0-1                       | 0        |
|           |            | 1       | 24        | 19.22               | 0-1                       | 0        |
|           |            | 1       | 49        | 19.17               | 0-1                       | 0        |
|           |            | 25      | 0         | 18.87               | 0-2                       | 0        |
|           |            | 25      | 12        | 18.82               | 0-2                       | 0        |
|           |            | 25      | 24        | 18.87               | 0-2                       | 0        |
|           | 64QAM      | 50      | 0         | 19.18               | 0-2                       | 0        |
|           |            | 1       | 0         | 19.03               | 0-2                       | 0        |
|           |            | 1       | 24        | 19.12               | 0-2                       | 0        |
|           |            | 1       | 49        | 18.97               | 0-2                       | 0        |
|           |            | 25      | 0         | 18.84               | 0-3                       | 0        |
|           |            | 25      | 12        | 18.85               | 0-3                       | 0        |
|           |            | 25      | 24        | 18.91               | 0-3                       | 0        |
|           | 50         | 0       | 18.99     | 0-3                 | 0                         |          |

[ LTE TDD Band 38 Conducted Power\_ Hotspot activated ]

LTE Band 38\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 18.86               | 18.79              | 18.42                | 0                         | 0        |
|           |            | 1       | 12        | 18.85               | 18.78              | 18.38                | 0                         | 0        |
|           |            | 1       | 24        | 18.81               | 18.66              | 18.28                | 0                         | 0        |
|           |            | 12      | 0         | 18.87               | 18.80              | 18.35                | 0-1                       | 0        |
|           |            | 12      | 6         | 18.86               | 18.71              | 18.32                | 0-1                       | 0        |
|           |            | 12      | 11        | 18.84               | 18.68              | 18.35                | 0-1                       | 0        |
|           |            | 25      | 0         | 18.83               | 18.75              | 18.37                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.93               | 18.86              | 18.48                | 0-1                       | 0        |
|           |            | 1       | 12        | 18.95               | 18.89              | 18.46                | 0-1                       | 0        |
|           |            | 1       | 24        | 18.90               | 18.82              | 18.42                | 0-1                       | 0        |
|           |            | 12      | 0         | 18.81               | 18.75              | 18.35                | 0-2                       | 0        |
|           |            | 12      | 6         | 18.84               | 18.68              | 18.31                | 0-2                       | 0        |
|           |            | 12      | 11        | 18.82               | 18.65              | 18.26                | 0-2                       | 0        |
|           |            | 25      | 0         | 18.92               | 18.75              | 18.35                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.58               | 18.51              | 18.05                | 0-2                       | 0        |
|           |            | 1       | 12        | 18.58               | 18.47              | 18.06                | 0-2                       | 0        |
|           |            | 1       | 24        | 18.53               | 18.39              | 17.98                | 0-2                       | 0        |
|           |            | 12      | 0         | 18.95               | 18.86              | 18.37                | 0-3                       | 0        |
|           |            | 12      | 6         | 18.90               | 18.77              | 18.38                | 0-3                       | 0        |
|           |            | 12      | 11        | 18.90               | 18.73              | 18.37                | 0-3                       | 0        |
|           |            | 25      | 0         | 18.95               | 18.82              | 18.40                | 0-3                       | 0        |

LTE Band 38\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 37800 Ch. 2575 MHz  | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 18.82               | 18.78              | 18.39              | 0                         | 0        |
|           |            | 1       | 24        | 18.82               | 18.76              | 18.38              | 0                         | 0        |
|           |            | 1       | 49        | 18.81               | 18.59              | 18.26              | 0                         | 0        |
|           |            | 25      | 0         | 18.80               | 18.80              | 18.39              | 0-1                       | 0        |
|           |            | 25      | 12        | 18.89               | 18.75              | 18.37              | 0-1                       | 0        |
|           |            | 25      | 24        | 18.86               | 18.66              | 18.36              | 0-1                       | 0        |
|           |            | 50      | 0         | 18.86               | 18.78              | 18.40              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.93               | 18.92              | 18.48              | 0-1                       | 0        |
|           |            | 1       | 24        | 18.95               | 18.90              | 18.50              | 0-1                       | 0        |
|           |            | 1       | 49        | 18.93               | 18.75              | 18.39              | 0-1                       | 0        |
|           |            | 25      | 0         | 18.89               | 18.78              | 18.41              | 0-2                       | 0        |
|           |            | 25      | 12        | 18.91               | 18.80              | 18.38              | 0-2                       | 0        |
|           |            | 25      | 24        | 18.89               | 18.77              | 18.36              | 0-2                       | 0        |
|           |            | 50      | 0         | 18.91               | 18.78              | 18.41              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.56               | 18.51              | 18.06              | 0-2                       | 0        |
|           |            | 1       | 24        | 18.54               | 18.49              | 18.07              | 0-2                       | 0        |
|           |            | 1       | 49        | 18.51               | 18.33              | 17.96              | 0-2                       | 0        |
|           |            | 25      | 0         | 18.93               | 18.89              | 18.45              | 0-3                       | 0        |
|           |            | 25      | 12        | 18.94               | 18.79              | 18.43              | 0-3                       | 0        |
|           |            | 25      | 24        | 18.95               | 18.79              | 18.43              | 0-3                       | 0        |
|           |            | 50      | 0         | 18.93               | 18.77              | 18.42              | 0-3                       | 0        |

LTE Band 38\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 18.74                | 18.75              | 18.53                | 0                         | 0        |
|           |            | 1       | 36        | 18.79                | 18.74              | 18.37                | 0                         | 0        |
|           |            | 1       | 74        | 18.70                | 18.48              | 18.25                | 0                         | 0        |
|           |            | 36      | 0         | 18.87                | 18.73              | 18.43                | 0-1                       | 0        |
|           |            | 36      | 18        | 18.85                | 18.72              | 18.33                | 0-1                       | 0        |
|           |            | 36      | 39        | 18.82                | 18.68              | 18.35                | 0-1                       | 0        |
|           |            | 75      | 0         | 18.83                | 18.72              | 18.41                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.91                | 18.83              | 18.62                | 0-1                       | 0        |
|           |            | 1       | 36        | 18.93                | 18.86              | 18.49                | 0-1                       | 0        |
|           |            | 1       | 74        | 18.85                | 18.65              | 18.32                | 0-1                       | 0        |
|           |            | 36      | 0         | 18.89                | 18.79              | 18.38                | 0-2                       | 0        |
|           |            | 36      | 18        | 18.88                | 18.71              | 18.33                | 0-2                       | 0        |
|           |            | 36      | 39        | 18.80                | 18.62              | 18.36                | 0-2                       | 0        |
|           |            | 75      | 0         | 18.84                | 18.81              | 18.45                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.51                | 18.49              | 18.21                | 0-2                       | 0        |
|           |            | 1       | 36        | 18.51                | 18.46              | 18.07                | 0-2                       | 0        |
|           |            | 1       | 74        | 18.45                | 18.21              | 17.89                | 0-2                       | 0        |
|           |            | 36      | 0         | 18.91                | 18.82              | 18.46                | 0-3                       | 0        |
|           |            | 36      | 18        | 18.89                | 18.73              | 18.36                | 0-3                       | 0        |
|           |            | 36      | 39        | 18.82                | 18.69              | 18.38                | 0-3                       | 0        |
|           |            | 75      | 0         | 18.91                | 18.80              | 18.44                | 0-3                       | 0        |

LTE Band 38\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 38000 Ch. 2595 MHz  |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 18.77               | 0                         | 0        |
|           |            | 1       | 49        | 18.75               | 0                         | 0        |
|           |            | 1       | 99        | 18.46               | 0                         | 0        |
|           |            | 50      | 0         | 18.82               | 0-1                       | 0        |
|           |            | 50      | 25        | 18.79               | 0-1                       | 0        |
|           |            | 50      | 49        | 18.68               | 0-1                       | 0        |
|           |            | 100     | 0         | 18.75               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.85               | 0-1                       | 0        |
|           |            | 1       | 49        | 18.87               | 0-1                       | 0        |
|           |            | 1       | 99        | 18.56               | 0-1                       | 0        |
|           |            | 50      | 0         | 18.82               | 0-2                       | 0        |
|           |            | 50      | 25        | 18.82               | 0-2                       | 0        |
|           |            | 50      | 49        | 18.68               | 0-2                       | 0        |
|           |            | 100     | 0         | 18.73               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.44               | 0-2                       | 0        |
|           |            | 1       | 49        | 18.46               | 0-2                       | 0        |
|           |            | 1       | 99        | 18.15               | 0-2                       | 0        |
|           |            | 50      | 0         | 18.86               | 0-3                       | 0        |
|           |            | 50      | 25        | 18.78               | 0-3                       | 0        |
|           |            | 50      | 49        | 18.73               | 0-3                       | 0        |
|           |            | 100     | 0         | 18.75               | 0-3                       | 0        |

[ LTE TDD Band 41 Conducted Power\_ Hotspot activated ] - Power Class 3

LTE Band 41\_ 5 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.02                | 19.77                | 20.42                | 20.52                | 20.71                | 0                        | 0        |
|            |            | 1       | 12        | 19.94                | 19.82                | 20.43                | 20.57                | 20.75                | 0                        | 0        |
|            |            | 1       | 24        | 19.79                | 19.80                | 20.40                | 20.49                | 20.70                | 0                        | 0        |
|            |            | 12      | 0         | 19.99                | 19.79                | 20.38                | 20.51                | 20.69                | 0-1                      | 0        |
|            |            | 12      | 6         | 19.90                | 19.79                | 20.39                | 20.51                | 20.66                | 0-1                      | 0        |
|            |            | 12      | 11        | 19.87                | 19.77                | 20.38                | 20.51                | 20.67                | 0-1                      | 0        |
|            |            | 25      | 0         | 19.92                | 19.80                | 20.41                | 20.53                | 20.70                | 0-1                      | 0        |
|            | 16QAM      | 1       | 0         | 20.12                | 19.87                | 20.51                | 20.60                | 20.79                | 0-1                      | 0        |
|            |            | 1       | 12        | 20.04                | 19.91                | 20.56                | 20.64                | 20.83                | 0-1                      | 0        |
|            |            | 1       | 24        | 19.92                | 19.92                | 20.53                | 20.62                | 20.83                | 0-1                      | 0        |
|            |            | 12      | 0         | 19.91                | 19.74                | 20.33                | 20.48                | 20.62                | 0-2                      | 0        |
|            |            | 12      | 6         | 19.82                | 19.73                | 20.35                | 20.44                | 20.59                | 0-2                      | 0        |
|            |            | 12      | 11        | 19.82                | 19.71                | 20.32                | 20.44                | 20.60                | 0-2                      | 0        |
|            |            | 25      | 0         | 19.91                | 19.77                | 20.41                | 20.54                | 20.67                | 0-2                      | 0        |
|            | 64QAM      | 1       | 0         | 19.63                | 19.37                | 20.02                | 20.17                | 20.34                | 0-2                      | 0        |
|            |            | 1       | 12        | 19.51                | 19.38                | 20.05                | 20.20                | 20.35                | 0-2                      | 0        |
|            |            | 1       | 24        | 19.40                | 19.40                | 20.01                | 20.14                | 20.32                | 0-2                      | 0        |
|            |            | 12      | 0         | 20.00                | 19.77                | 20.43                | 20.55                | 20.69                | 0-3                      | 0        |
|            |            | 12      | 6         | 19.90                | 19.76                | 20.40                | 20.58                | 20.69                | 0-3                      | 0        |
|            |            | 12      | 11        | 19.89                | 19.77                | 20.39                | 20.54                | 20.68                | 0-3                      | 0        |
|            |            | 25      | 0         | 19.96                | 19.84                | 20.46                | 20.56                | 20.74                | 0-3                      | 0        |

LTE Band 41\_ 10 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch. 2501 MHz  | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 19.97               | 19.73              | 20.41              | 20.43              | 20.72              | 0                         | 0        |
|            |            | 1       | 24        | 19.79               | 19.80              | 20.45              | 20.51              | 20.68              | 0                         | 0        |
|            |            | 1       | 49        | 19.63               | 19.84              | 20.34              | 20.48              | 20.68              | 0                         | 0        |
|            |            | 25      | 0         | 19.86               | 19.79              | 20.40              | 20.48              | 20.65              | 0-1                       | 0        |
|            |            | 25      | 12        | 19.79               | 19.80              | 20.37              | 20.50              | 20.69              | 0-1                       | 0        |
|            |            | 25      | 24        | 19.73               | 19.83              | 20.36              | 20.50              | 20.70              | 0-1                       | 0        |
|            |            | 50      | 0         | 19.84               | 19.82              | 20.38              | 20.52              | 20.66              | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.10               | 19.85              | 20.56              | 20.55              | 20.81              | 0-1                       | 0        |
|            |            | 1       | 24        | 19.92               | 19.96              | 20.57              | 20.64              | 20.81              | 0-1                       | 0        |
|            |            | 1       | 49        | 19.78               | 19.98              | 20.46              | 20.58              | 20.79              | 0-1                       | 0        |
|            |            | 25      | 0         | 19.83               | 19.78              | 20.38              | 20.51              | 20.66              | 0-2                       | 0        |
|            |            | 25      | 12        | 19.77               | 19.78              | 20.37              | 20.51              | 20.66              | 0-2                       | 0        |
|            |            | 25      | 24        | 19.75               | 19.81              | 20.38              | 20.53              | 20.68              | 0-2                       | 0        |
|            |            | 50      | 0         | 19.87               | 19.87              | 20.41              | 20.54              | 20.69              | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.60               | 19.34              | 20.05              | 20.08              | 20.34              | 0-2                       | 0        |
|            |            | 1       | 24        | 19.42               | 19.43              | 20.08              | 20.16              | 20.34              | 0-2                       | 0        |
|            |            | 1       | 49        | 19.26               | 19.46              | 19.96              | 20.13              | 20.31              | 0-2                       | 0        |
|            |            | 25      | 0         | 19.91               | 19.84              | 20.46              | 20.58              | 20.69              | 0-3                       | 0        |
|            |            | 25      | 12        | 19.84               | 19.88              | 20.44              | 20.53              | 20.75              | 0-3                       | 0        |
|            |            | 25      | 24        | 19.80               | 19.88              | 20.44              | 20.59              | 20.79              | 0-3                       | 0        |
|            |            | 50      | 0         | 19.82               | 19.79              | 20.41              | 20.49              | 20.71              | 0-3                       | 0        |

LTE Band 41 \_ 15 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 19.91                | 19.67                | 20.34                | 20.30                | 20.63                | 0                         | 0        |
|            |            | 1       | 36        | 19.71                | 19.81                | 20.39                | 20.44                | 20.65                | 0                         | 0        |
|            |            | 1       | 74        | 19.48                | 19.81                | 20.25                | 20.40                | 20.58                | 0                         | 0        |
|            |            | 36      | 0         | 19.79                | 19.74                | 20.38                | 20.38                | 20.62                | 0-1                       | 0        |
|            |            | 36      | 18        | 19.69                | 19.78                | 20.35                | 20.44                | 20.65                | 0-1                       | 0        |
|            |            | 36      | 39        | 19.63                | 19.83                | 20.30                | 20.42                | 20.64                | 0-1                       | 0        |
|            |            | 75      | 0         | 19.71                | 19.79                | 20.41                | 20.44                | 20.65                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.07                | 19.84                | 20.49                | 20.44                | 20.72                | 0-1                       | 0        |
|            |            | 1       | 36        | 19.89                | 19.94                | 20.56                | 20.56                | 20.75                | 0-1                       | 0        |
|            |            | 1       | 74        | 19.66                | 19.97                | 20.40                | 20.52                | 20.76                | 0-1                       | 0        |
|            |            | 36      | 0         | 19.74                | 19.72                | 20.37                | 20.40                | 20.57                | 0-2                       | 0        |
|            |            | 36      | 18        | 19.69                | 19.79                | 20.31                | 20.41                | 20.64                | 0-2                       | 0        |
|            |            | 36      | 39        | 19.62                | 19.81                | 20.30                | 20.37                | 20.64                | 0-2                       | 0        |
|            |            | 75      | 0         | 19.72                | 19.82                | 20.43                | 20.45                | 20.67                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.54                | 19.32                | 20.01                | 19.98                | 20.27                | 0-2                       | 0        |
|            |            | 1       | 36        | 19.33                | 19.40                | 20.05                | 20.10                | 20.30                | 0-2                       | 0        |
|            |            | 1       | 74        | 19.12                | 19.47                | 19.91                | 20.07                | 20.26                | 0-2                       | 0        |
|            |            | 36      | 0         | 19.77                | 19.74                | 20.38                | 20.41                | 20.60                | 0-3                       | 0        |
| 36         |            | 18      | 19.69     | 19.76                | 20.35                | 20.44                | 20.63                | 0-3                  | 0                         |          |
| 36         |            | 39      | 19.63     | 19.83                | 20.31                | 20.43                | 20.66                | 0-3                  | 0                         |          |
| 75         |            | 0       | 19.73     | 19.79                | 20.40                | 20.47                | 20.69                | 0-3                  | 0                         |          |

LTE Band 41 \_ 20 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.88                | 19.65                | 20.33                | 20.21                | 20.53                | 0                         | 0        |
|            |            | 1       | 49        | 19.70                | 19.87                | 20.43                | 20.41                | 20.70                | 0                         | 0        |
|            |            | 1       | 99        | 19.39                | 19.85                | 20.16                | 20.31                | 20.56                | 0                         | 0        |
|            |            | 50      | 0         | 19.71                | 19.79                | 20.39                | 20.38                | 20.64                | 0-1                       | 0        |
|            |            | 50      | 25        | 19.67                | 19.84                | 20.38                | 20.43                | 20.65                | 0-1                       | 0        |
|            |            | 50      | 49        | 19.60                | 19.89                | 20.36                | 20.41                | 20.69                | 0-1                       | 0        |
|            |            | 100     | 0         | 19.68                | 19.87                | 20.35                | 20.40                | 20.67                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.04                | 19.77                | 20.44                | 20.32                | 20.66                | 0-1                       | 0        |
|            |            | 1       | 49        | 19.85                | 20.01                | 20.56                | 20.53                | 20.81                | 0-1                       | 0        |
|            |            | 1       | 99        | 19.53                | 19.98                | 20.30                | 20.44                | 20.68                | 0-1                       | 0        |
|            |            | 50      | 0         | 19.73                | 19.84                | 20.43                | 20.42                | 20.64                | 0-2                       | 0        |
|            |            | 50      | 25        | 19.70                | 19.89                | 20.41                | 20.44                | 20.69                | 0-2                       | 0        |
|            |            | 50      | 49        | 19.63                | 19.89                | 20.39                | 20.44                | 20.70                | 0-2                       | 0        |
|            |            | 100     | 0         | 19.70                | 19.88                | 20.39                | 20.46                | 20.71                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.50                | 19.27                | 19.96                | 19.85                | 20.23                | 0-2                       | 0        |
|            |            | 1       | 49        | 19.32                | 19.49                | 20.07                | 20.08                | 20.33                | 0-2                       | 0        |
|            |            | 1       | 99        | 19.01                | 19.47                | 19.81                | 19.97                | 20.20                | 0-2                       | 0        |
|            |            | 50      | 0         | 19.72                | 19.79                | 20.39                | 20.42                | 20.64                | 0-3                       | 0        |
|            |            | 50      | 25        | 19.67                | 19.84                | 20.42                | 20.41                | 20.65                | 0-3                       | 0        |
|            |            | 50      | 49        | 19.57                | 19.86                | 20.38                | 20.42                | 20.66                | 0-3                       | 0        |
|            |            | 100     | 0         | 19.69                | 19.86                | 20.36                | 20.42                | 20.71                | 0-3                       | 0        |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[ LTE TDD Band 41 Conducted Power\_ Hotspot activated ] - Power Class 2**

LTE Band 41 \_ 5 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]     |                         |                         |                         |                         | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch.<br>2498.5 MHz | 40148 Ch.<br>2545.8 MHz | 40620 Ch.<br>2593.0 MHz | 41093 Ch.<br>2640.3 MHz | 41565 Ch.<br>2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.01                   | 19.75                   | 20.38                   | 20.48                   | 20.67                   | 0                        | 0        |
|            |            | 1       | 12        | 19.93                   | 19.80                   | 20.41                   | 20.52                   | 20.69                   | 0                        | 0        |
|            |            | 1       | 24        | 19.81                   | 19.79                   | 20.38                   | 20.48                   | 20.67                   | 0                        | 0        |
|            |            | 12      | 0         | 19.86                   | 19.65                   | 20.27                   | 20.39                   | 20.52                   | 0-1                      | 0        |
|            |            | 12      | 6         | 19.79                   | 19.64                   | 20.28                   | 20.39                   | 20.51                   | 0-1                      | 0        |
|            |            | 12      | 11        | 19.77                   | 19.64                   | 20.23                   | 20.36                   | 20.52                   | 0-1                      | 0        |
|            |            | 25      | 0         | 19.81                   | 19.68                   | 20.29                   | 20.39                   | 20.55                   | 0-1                      | 0        |
|            | 16QAM      | 1       | 0         | 20.20                   | 19.95                   | 20.57                   | 20.64                   | 20.81                   | 0-1                      | 0        |
|            |            | 1       | 12        | 20.13                   | 19.98                   | 20.63                   | 20.71                   | 20.85                   | 0-1                      | 0        |
|            |            | 1       | 24        | 20.00                   | 20.00                   | 20.58                   | 20.66                   | 20.87                   | 0-1                      | 0        |
|            |            | 12      | 0         | 19.88                   | 19.68                   | 20.30                   | 20.40                   | 20.55                   | 0-2                      | 0        |
|            |            | 12      | 6         | 19.80                   | 19.67                   | 20.30                   | 20.38                   | 20.53                   | 0-2                      | 0        |
|            |            | 12      | 11        | 19.79                   | 19.67                   | 20.28                   | 20.40                   | 20.54                   | 0-2                      | 0        |
|            |            | 25      | 0         | 19.84                   | 19.70                   | 20.32                   | 20.44                   | 20.58                   | 0-2                      | 0        |
|            | 64QAM      | 1       | 0         | 19.93                   | 19.66                   | 20.30                   | 20.40                   | 20.56                   | 0-2                      | 0        |
|            |            | 1       | 12        | 19.80                   | 19.68                   | 20.31                   | 20.38                   | 20.57                   | 0-2                      | 0        |
|            |            | 1       | 24        | 19.68                   | 19.68                   | 20.28                   | 20.37                   | 20.56                   | 0-2                      | 0        |
|            |            | 12      | 0         | 19.94                   | 19.73                   | 20.34                   | 20.47                   | 20.61                   | 0-3                      | 0        |
|            |            | 12      | 6         | 19.84                   | 19.71                   | 20.34                   | 20.46                   | 20.58                   | 0-3                      | 0        |
|            |            | 12      | 11        | 19.83                   | 19.71                   | 20.30                   | 20.43                   | 20.57                   | 0-3                      | 0        |
| 25         |            | 0       | 19.89     | 19.75                   | 20.36                   | 20.46                   | 20.62                   | 0-3                     | 0                        |          |

LTE Band 41 \_ 10 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                       |                       |                       |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch.<br>2501 MHz | 40160 Ch.<br>2547 MHz | 40620 Ch.<br>2593 MHz | 41080 Ch.<br>2639 MHz | 41540 Ch.<br>2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 19.95                 | 19.69                 | 20.36                 | 20.36                 | 20.63                 | 0                         | 0        |
|            |            | 1       | 24        | 19.78                 | 19.78                 | 20.38                 | 20.46                 | 20.65                 | 0                         | 0        |
|            |            | 1       | 49        | 19.63                 | 19.83                 | 20.31                 | 20.42                 | 20.62                 | 0                         | 0        |
|            |            | 25      | 0         | 19.73                 | 19.66                 | 20.27                 | 20.37                 | 20.52                 | 0-1                       | 0        |
|            |            | 25      | 12        | 19.66                 | 19.68                 | 20.25                 | 20.37                 | 20.52                 | 0-1                       | 0        |
|            |            | 25      | 24        | 19.64                 | 19.69                 | 20.25                 | 20.39                 | 20.54                 | 0-1                       | 0        |
|            |            | 50      | 0         | 19.73                 | 19.70                 | 20.26                 | 20.37                 | 20.53                 | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.19                 | 19.93                 | 20.59                 | 20.59                 | 20.84                 | 0-1                       | 0        |
|            |            | 1       | 24        | 20.01                 | 20.04                 | 20.63                 | 20.68                 | 20.85                 | 0-1                       | 0        |
|            |            | 1       | 49        | 19.87                 | 20.06                 | 20.53                 | 20.64                 | 20.84                 | 0-1                       | 0        |
|            |            | 25      | 0         | 19.78                 | 19.70                 | 20.30                 | 20.37                 | 20.54                 | 0-2                       | 0        |
|            |            | 25      | 12        | 19.72                 | 19.71                 | 20.27                 | 20.43                 | 20.55                 | 0-2                       | 0        |
|            |            | 25      | 24        | 19.68                 | 19.74                 | 20.28                 | 20.41                 | 20.58                 | 0-2                       | 0        |
|            |            | 50      | 0         | 19.76                 | 19.74                 | 20.28                 | 20.41                 | 20.58                 | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.86                 | 19.63                 | 20.30                 | 20.30                 | 20.56                 | 0-2                       | 0        |
|            |            | 1       | 24        | 19.71                 | 19.71                 | 20.34                 | 20.39                 | 20.57                 | 0-2                       | 0        |
|            |            | 1       | 49        | 19.55                 | 19.73                 | 20.21                 | 20.34                 | 20.54                 | 0-2                       | 0        |
|            |            | 25      | 0         | 19.85                 | 19.77                 | 20.37                 | 20.47                 | 20.60                 | 0-3                       | 0        |
|            |            | 25      | 12        | 19.79                 | 19.77                 | 20.35                 | 20.45                 | 20.64                 | 0-3                       | 0        |
|            |            | 25      | 24        | 19.72                 | 19.80                 | 20.33                 | 20.45                 | 20.63                 | 0-3                       | 0        |
|            |            | 50      | 0         | 19.73                 | 19.70                 | 20.26                 | 20.39                 | 20.54                 | 0-3                       | 0        |

LTE Band 41 \_ 15 MHz Bandwidth- Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 19.90                | 19.66                | 20.32                | 20.26                | 20.58                | 0                         | 0        |
|            |            | 1       | 36        | 19.68                | 19.78                | 20.40                | 20.41                | 20.61                | 0                         | 0        |
|            |            | 1       | 74        | 19.48                | 19.80                | 20.22                | 20.33                | 20.57                | 0                         | 0        |
|            |            | 36      | 0         | 19.65                | 19.63                | 20.24                | 20.28                | 20.49                | 0-1                       | 0        |
|            |            | 36      | 18        | 19.57                | 19.66                | 20.22                | 20.31                | 20.49                | 0-1                       | 0        |
|            |            | 36      | 39        | 19.51                | 19.71                | 20.17                | 20.32                | 20.52                | 0-1                       | 0        |
|            |            | 75      | 0         | 19.61                | 19.68                | 20.26                | 20.33                | 20.54                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.16                | 19.91                | 20.57                | 20.51                | 20.77                | 0-1                       | 0        |
|            |            | 1       | 36        | 19.94                | 20.00                | 20.64                | 20.63                | 20.79                | 0-1                       | 0        |
|            |            | 1       | 74        | 19.72                | 20.06                | 20.45                | 20.58                | 20.79                | 0-1                       | 0        |
|            |            | 36      | 0         | 19.69                | 19.64                | 20.28                | 20.28                | 20.46                | 0-2                       | 0        |
|            |            | 36      | 18        | 19.60                | 19.67                | 20.21                | 20.32                | 20.49                | 0-2                       | 0        |
|            |            | 36      | 39        | 19.53                | 19.72                | 20.19                | 20.29                | 20.51                | 0-2                       | 0        |
|            |            | 75      | 0         | 19.62                | 19.72                | 20.30                | 20.36                | 20.53                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.86                | 19.61                | 20.27                | 20.22                | 20.51                | 0-2                       | 0        |
|            |            | 1       | 36        | 19.63                | 19.70                | 20.30                | 20.34                | 20.52                | 0-2                       | 0        |
|            |            | 1       | 74        | 19.42                | 19.75                | 20.16                | 20.29                | 20.50                | 0-2                       | 0        |
|            |            | 36      | 0         | 19.69                | 19.66                | 20.28                | 20.31                | 20.49                | 0-3                       | 0        |
| 36         |            | 18      | 19.60     | 19.69                | 20.24                | 20.33                | 20.50                | 0-3                  | 0                         |          |
| 36         |            | 39      | 19.53     | 19.73                | 20.20                | 20.29                | 20.52                | 0-3                  | 0                         |          |
| 75         |            | 0       | 19.63     | 19.71                | 20.28                | 20.34                | 20.53                | 0-3                  | 0                         |          |

LTE Band 41 \_ 20 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch. 2506 MHz  | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.89               | 19.62                | 20.31                | 20.19                | 20.55                | 0                         | 0        |
|            |            | 1       | 49        | 19.68               | 19.84                | 20.40                | 20.39                | 20.65                | 0                         | 0        |
|            |            | 1       | 99        | 19.38               | 19.82                | 20.13                | 20.32                | 20.52                | 0                         | 0        |
|            |            | 50      | 0         | 19.62               | 19.67                | 20.27                | 20.27                | 20.50                | 0-1                       | 0        |
|            |            | 50      | 25        | 19.58               | 19.73                | 20.25                | 20.32                | 20.54                | 0-1                       | 0        |
|            |            | 50      | 49        | 19.51               | 19.77                | 20.24                | 20.28                | 20.56                | 0-1                       | 0        |
|            |            | 100     | 0         | 19.58               | 19.74                | 20.23                | 20.31                | 20.56                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.11               | 19.86                | 20.51                | 20.41                | 20.73                | 0-1                       | 0        |
|            |            | 1       | 49        | 19.93               | 20.09                | 20.63                | 20.62                | 20.85                | 0-1                       | 0        |
|            |            | 1       | 99        | 19.62               | 20.07                | 20.37                | 20.50                | 20.72                | 0-1                       | 0        |
|            |            | 50      | 0         | 19.67               | 19.74                | 20.31                | 20.33                | 20.56                | 0-2                       | 0        |
|            |            | 50      | 25        | 19.61               | 19.77                | 20.30                | 20.36                | 20.54                | 0-2                       | 0        |
|            |            | 50      | 49        | 19.56               | 19.81                | 20.27                | 20.36                | 20.58                | 0-2                       | 0        |
|            |            | 100     | 0         | 19.62               | 19.79                | 20.27                | 20.33                | 20.57                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.80               | 19.55                | 20.22                | 20.10                | 20.45                | 0-2                       | 0        |
|            |            | 1       | 49        | 19.63               | 19.75                | 20.33                | 20.32                | 20.56                | 0-2                       | 0        |
|            |            | 1       | 99        | 19.30               | 19.75                | 20.07                | 20.22                | 20.43                | 0-2                       | 0        |
|            |            | 50      | 0         | 19.64               | 19.69                | 20.28                | 20.29                | 20.53                | 0-3                       | 0        |
| 50         |            | 25      | 19.58     | 19.73               | 20.27                | 20.35                | 20.52                | 0-3                  | 0                         |          |
| 50         |            | 49      | 19.52     | 19.76               | 20.23                | 20.29                | 20.53                | 0-3                  | 0                         |          |
| 100        |            | 0       | 19.60     | 19.76               | 20.24                | 20.33                | 20.56                | 0-3                  | 0                         |          |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

[ LTE TDD Band 48 Conducted Power\_ Hotspot activated ]

LTE Band 48\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 55265 Ch. 3552.5 MHz | 55748 Ch. 3600.8 MHz | 56232 Ch. 3649.2 MHz | 56715 Ch. 3697.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 19.85                | 19.08                | 18.93                | 19.22                | 0                         | 0        |   |
|           |            | 1       | 12        | 19.82                | 19.13                | 18.93                | 19.24                | 0                         | 0        |   |
|           |            | 1       | 24        | 19.74                | 19.13                | 18.97                | 19.21                | 0                         | 0        |   |
|           |            | 12      | 0         | 19.82                | 19.06                | 18.92                | 19.22                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 19.84                | 19.09                | 18.94                | 19.23                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 19.80                | 19.07                | 18.90                | 19.25                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 19.83                | 19.09                | 18.95                | 19.27                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 19.94                | 19.15                | 19.00                | 19.31                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 19.89                | 19.18                | 19.02                | 19.30                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 19.86                | 19.22                | 19.06                | 19.31                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 19.80                | 19.02                | 18.93                | 19.24                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 19.80                | 19.05                | 18.89                | 19.21                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 19.76                | 19.04                | 18.92                | 19.18                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 19.87                | 19.14                | 18.99                | 19.27                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 19.59                | 18.81                | 18.65                | 18.96                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 19.54                | 18.84                | 18.67                | 18.97                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 19.50                | 18.85                | 18.69                | 18.94                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 19.90                | 19.14                | 18.99                | 19.31                | 0-3                       | 0        |   |
|           |            | 64QAM   | 12        | 6                    | 19.91                | 19.13                | 18.97                | 19.28                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 19.89                | 19.09                | 18.97                | 19.25                     | 0-3      | 0 |
|           |            | 25      | 0         | 19.94                | 19.17                | 19.01                | 19.32                | 0-3                       | 0        |   |

LTE Band 48\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|---------------------------|----------|---|
|           |            |         |           | 55290 Ch. 3555 MHz  | 55757 Ch. 3601.7 MHz | 56223 Ch. 3648.3 MHz | 56690 Ch. 3695 MHz |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 19.90               | 19.05                | 18.91                | 19.22              | 0                         | 0        |   |
|           |            | 1       | 24        | 19.79               | 19.08                | 18.98                | 19.22              | 0                         | 0        |   |
|           |            | 1       | 49        | 19.65               | 19.13                | 19.00                | 19.21              | 0                         | 0        |   |
|           |            | 25      | 0         | 19.88               | 19.11                | 18.93                | 19.24              | 0-1                       | 0        |   |
|           |            | 25      | 12        | 19.81               | 19.10                | 18.98                | 19.24              | 0-1                       | 0        |   |
|           |            | 25      | 24        | 19.77               | 19.13                | 18.97                | 19.24              | 0-1                       | 0        |   |
|           | 16QAM      | 50      | 0         | 19.84               | 19.13                | 18.97                | 19.29              | 0-1                       | 0        |   |
|           |            | 1       | 0         | 19.95               | 19.16                | 19.01                | 19.28              | 0-1                       | 0        |   |
|           |            | 1       | 24        | 19.91               | 19.18                | 19.06                | 19.31              | 0-1                       | 0        |   |
|           |            | 1       | 49        | 19.78               | 19.20                | 19.06                | 19.29              | 0-1                       | 0        |   |
|           |            | 25      | 0         | 19.91               | 19.13                | 18.99                | 19.26              | 0-2                       | 0        |   |
|           |            | 25      | 12        | 19.83               | 19.10                | 18.97                | 19.28              | 0-2                       | 0        |   |
|           | 64QAM      | 25      | 24        | 19.78               | 19.11                | 18.97                | 19.28              | 0-2                       | 0        |   |
|           |            | 50      | 0         | 19.86               | 19.16                | 19.01                | 19.32              | 0-2                       | 0        |   |
|           |            | 1       | 0         | 19.59               | 18.80                | 18.63                | 18.93              | 0-2                       | 0        |   |
|           |            | 1       | 24        | 19.53               | 18.81                | 18.65                | 18.95              | 0-2                       | 0        |   |
|           |            | 1       | 49        | 19.40               | 18.83                | 18.70                | 18.93              | 0-2                       | 0        |   |
|           |            | 25      | 0         | 19.94               | 19.16                | 19.03                | 19.31              | 0-3                       | 0        |   |
|           |            | 64QAM   | 25        | 12                  | 19.91                | 19.16                | 19.06              | 19.32                     | 0-3      | 0 |
|           |            |         | 25        | 24                  | 19.84                | 19.20                | 19.02              | 19.31                     | 0-3      | 0 |
|           |            | 50      | 0         | 19.84               | 19.18                | 18.98                | 19.34              | 0-3                       | 0        |   |



LTE Band 48 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55315Ch. 3557.5 MHz | 55765 Ch. 3602.5 MHz | 56215 Ch. 3647.5 MHz | 56665 Ch. 3692.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 19.74               | 18.99                | 18.87                | 19.13                | 0                         | 0        |
|           |            | 1       | 36        | 19.78               | 19.11                | 18.92                | 19.19                | 0                         | 0        |
|           |            | 1       | 74        | 19.46               | 19.04                | 18.94                | 19.13                | 0                         | 0        |
|           |            | 36      | 0         | 19.78               | 19.06                | 18.95                | 19.18                | 0-1                       | 0        |
|           |            | 36      | 18        | 19.74               | 19.10                | 18.89                | 19.26                | 0-1                       | 0        |
|           |            | 36      | 39        | 19.65               | 19.10                | 18.93                | 19.24                | 0-1                       | 0        |
|           |            | 75      | 0         | 19.75               | 19.10                | 19.00                | 19.26                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.87               | 19.11                | 18.95                | 19.23                | 0-1                       | 0        |
|           |            | 1       | 36        | 19.85               | 19.23                | 19.04                | 19.28                | 0-1                       | 0        |
|           |            | 1       | 74        | 19.58               | 19.19                | 19.01                | 19.25                | 0-1                       | 0        |
|           |            | 36      | 0         | 19.81               | 19.08                | 18.88                | 19.17                | 0-2                       | 0        |
|           |            | 36      | 18        | 19.74               | 19.08                | 18.88                | 19.25                | 0-2                       | 0        |
|           |            | 36      | 39        | 19.67               | 19.10                | 18.93                | 19.23                | 0-2                       | 0        |
|           |            | 75      | 0         | 19.76               | 19.13                | 18.96                | 19.30                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.51               | 18.74                | 18.59                | 18.88                | 0-2                       | 0        |
|           |            | 1       | 36        | 19.48               | 18.87                | 18.67                | 18.92                | 0-2                       | 0        |
|           |            | 1       | 74        | 19.23               | 18.81                | 18.65                | 18.89                | 0-2                       | 0        |
|           |            | 36      | 0         | 19.83               | 19.08                | 18.92                | 19.20                | 0-3                       | 0        |
|           |            | 36      | 18        | 19.76               | 19.12                | 18.92                | 19.22                | 0-3                       | 0        |
|           |            | 36      | 39        | 19.70               | 19.14                | 18.98                | 19.23                | 0-3                       | 0        |
|           |            | 75      | 0         | 19.75               | 19.13                | 18.96                | 19.29                | 0-3                       | 0        |

LTE Band 48 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55340Ch. 3560.0 MHz | 55773 Ch. 3603.3 MHz | 56207 Ch. 3646.7 MHz | 56640 Ch. 3690.0 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 19.71               | 18.94                | 18.86                | 19.08                | 0                         | 0        |
|           |            | 1       | 49        | 19.65               | 19.11                | 18.95                | 19.19                | 0                         | 0        |
|           |            | 1       | 99        | 19.32               | 19.05                | 18.86                | 19.11                | 0                         | 0        |
|           |            | 50      | 0         | 19.82               | 19.08                | 18.94                | 19.25                | 0-1                       | 0        |
|           |            | 50      | 25        | 19.70               | 19.14                | 18.96                | 19.26                | 0-1                       | 0        |
|           |            | 50      | 49        | 19.57               | 19.15                | 18.99                | 19.28                | 0-1                       | 0        |
|           |            | 100     | 0         | 19.68               | 19.09                | 18.97                | 19.22                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.82               | 19.03                | 18.94                | 19.19                | 0-1                       | 0        |
|           |            | 1       | 49        | 19.79               | 19.23                | 19.05                | 19.31                | 0-1                       | 0        |
|           |            | 1       | 99        | 19.36               | 19.14                | 18.99                | 19.21                | 0-1                       | 0        |
|           |            | 50      | 0         | 19.83               | 19.11                | 18.99                | 19.29                | 0-2                       | 0        |
|           |            | 50      | 25        | 19.77               | 19.17                | 18.98                | 19.32                | 0-2                       | 0        |
|           |            | 50      | 49        | 19.38               | 19.17                | 18.99                | 19.29                | 0-2                       | 0        |
|           |            | 100     | 0         | 19.72               | 19.16                | 18.99                | 19.26                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.47               | 18.66                | 18.57                | 18.81                | 0-2                       | 0        |
|           |            | 1       | 49        | 19.40               | 18.87                | 18.66                | 18.93                | 0-2                       | 0        |
|           |            | 1       | 99        | 19.01               | 18.76                | 18.60                | 18.85                | 0-2                       | 0        |
|           |            | 50      | 0         | 19.83               | 19.09                | 19.02                | 19.26                | 0-3                       | 0        |
|           |            | 50      | 25        | 19.75               | 19.15                | 18.96                | 19.30                | 0-3                       | 0        |
|           |            | 50      | 49        | 19.55               | 19.15                | 18.98                | 19.27                | 0-3                       | 0        |
|           |            | 100     | 0         | 19.46               | 19.10                | 18.97                | 19.27                | 0-3                       | 0        |

[ LTE Band 66 Conducted Power\_ Hotspot activated ]

LTE Band 66 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131979Ch. 1710.7 MHz | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 19.82                | 20.84               | 20.90                 | 0                         | 0        |
|           |            | 1       | 3         | 19.85                | 20.93               | 20.97                 | 0                         | 0        |
|           |            | 1       | 5         | 19.87                | 20.89               | 20.90                 | 0                         | 0        |
|           |            | 3       | 0         | 19.86                | 20.85               | 20.92                 | 0                         | 0        |
|           |            | 3       | 1         | 19.86                | 20.85               | 20.91                 | 0                         | 0        |
|           |            | 3       | 3         | 19.88                | 20.89               | 20.91                 | 0                         | 0        |
|           |            | 6       | 0         | 19.84                | 20.88               | 20.94                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.22                | 21.09               | 21.20                 | 0-1                       | 0        |
|           |            | 1       | 3         | 20.15                | 21.22               | 21.31                 | 0-1                       | 0        |
|           |            | 1       | 5         | 20.23                | 21.18               | 21.17                 | 0-1                       | 0        |
|           |            | 3       | 0         | 19.84                | 20.82               | 20.95                 | 0-1                       | 0        |
|           |            | 3       | 1         | 19.91                | 20.91               | 20.94                 | 0-1                       | 0        |
|           |            | 3       | 3         | 19.86                | 20.93               | 20.95                 | 0-1                       | 0        |
|           |            | 6       | 0         | 19.96                | 20.96               | 21.04                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.92                | 20.96               | 21.11                 | 0-2                       | 0        |
|           |            | 1       | 3         | 20.08                | 21.05               | 21.09                 | 0-2                       | 0        |
|           |            | 1       | 5         | 20.08                | 20.99               | 21.07                 | 0-2                       | 0        |
|           |            | 3       | 0         | 19.98                | 20.91               | 21.05                 | 0-2                       | 0        |
|           |            | 3       | 1         | 20.02                | 21.01               | 21.09                 | 0-2                       | 0        |
|           |            | 3       | 3         | 19.92                | 21.02               | 21.02                 | 0-2                       | 0        |
| 6         |            | 0       | 19.83     | 20.87                | 20.93               | 0-3                   | 0                         |          |

LTE Band 66 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131987 Ch. 1711.5 MHz | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 19.82                 | 20.84               | 20.89                 | 0                         | 0        |
|           |            | 1       | 7         | 19.87                 | 20.90               | 20.88                 | 0                         | 0        |
|           |            | 1       | 14        | 19.83                 | 20.91               | 20.91                 | 0                         | 0        |
|           |            | 8       | 0         | 19.84                 | 20.85               | 20.88                 | 0-1                       | 0        |
|           |            | 8       | 3         | 19.87                 | 20.84               | 20.94                 | 0-1                       | 0        |
|           |            | 8       | 7         | 19.87                 | 20.86               | 20.92                 | 0-1                       | 0        |
|           |            | 15      | 0         | 19.88                 | 20.87               | 20.95                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.12                 | 21.04               | 21.24                 | 0-1                       | 0        |
|           |            | 1       | 7         | 20.25                 | 21.14               | 21.13                 | 0-1                       | 0        |
|           |            | 1       | 14        | 20.15                 | 21.10               | 21.13                 | 0-1                       | 0        |
|           |            | 8       | 0         | 19.92                 | 20.91               | 20.99                 | 0-2                       | 0        |
|           |            | 8       | 3         | 19.98                 | 20.94               | 21.03                 | 0-2                       | 0        |
|           |            | 8       | 7         | 19.98                 | 21.00               | 21.03                 | 0-2                       | 0        |
|           |            | 15      | 0         | 19.90                 | 20.91               | 20.99                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.01                 | 21.01               | 21.13                 | 0-2                       | 0        |
|           |            | 1       | 7         | 20.06                 | 21.06               | 21.04                 | 0-2                       | 0        |
|           |            | 1       | 14        | 20.06                 | 21.01               | 21.05                 | 0-2                       | 0        |
|           |            | 8       | 0         | 19.90                 | 20.86               | 20.98                 | 0-3                       | 0        |
|           |            | 8       | 3         | 19.96                 | 20.93               | 20.98                 | 0-3                       | 0        |
|           |            | 8       | 7         | 19.97                 | 20.93               | 21.00                 | 0-3                       | 0        |
|           |            | 8       | 0         | 19.92                 | 20.86               | 20.98                 | 0-3                       | 0        |
|           |            | 15      | 0         | 19.92                 | 20.86               | 20.98                 | 0-3                       | 0        |

LTE Band 66 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                    |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|--------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131997 Ch. 1712.5 MHz | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 19.84                 | 20.88              | 20.91                 | 0                         | 0        |
|           |            | 1       | 12        | 19.95                 | 20.94              | 20.95                 | 0                         | 0        |
|           |            | 1       | 24        | 19.95                 | 20.96              | 20.95                 | 0                         | 0        |
|           |            | 12      | 0         | 19.86                 | 20.88              | 20.97                 | 0-1                       | 0        |
|           |            | 12      | 6         | 19.94                 | 20.89              | 20.94                 | 0-1                       | 0        |
|           |            | 12      | 11        | 19.98                 | 20.94              | 20.98                 | 0-1                       | 0        |
|           |            | 25      | 0         | 19.94                 | 20.88              | 20.94                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.08                 | 21.07              | 21.13                 | 0-1                       | 0        |
|           |            | 1       | 12        | 20.27                 | 21.14              | 21.30                 | 0-1                       | 0        |
|           |            | 1       | 24        | 20.26                 | 21.27              | 21.16                 | 0-1                       | 0        |
|           |            | 12      | 0         | 19.85                 | 20.87              | 20.96                 | 0-2                       | 0        |
|           |            | 12      | 6         | 19.96                 | 20.91              | 20.97                 | 0-2                       | 0        |
|           |            | 12      | 11        | 19.98                 | 20.88              | 20.97                 | 0-2                       | 0        |
|           |            | 25      | 0         | 19.96                 | 20.92              | 20.95                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.10                 | 21.00              | 21.05                 | 0-2                       | 0        |
|           |            | 1       | 12        | 20.01                 | 21.06              | 21.09                 | 0-2                       | 0        |
|           |            | 1       | 24        | 20.08                 | 21.04              | 21.06                 | 0-2                       | 0        |
|           |            | 12      | 0         | 19.93                 | 20.92              | 20.99                 | 0-3                       | 0        |
|           |            | 12      | 6         | 19.97                 | 20.92              | 20.96                 | 0-3                       | 0        |
|           |            | 12      | 11        | 20.01                 | 20.93              | 20.97                 | 0-3                       | 0        |
| 25        |            | 0       | 19.95     | 20.91                 | 20.95              | 0-3                   | 0                         |          |

LTE Band 66 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132022 Ch. 1715 MHz | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 19.86               | 20.76               | 20.88               | 0                         | 0        |
|           |            | 1       | 24        | 20.00               | 20.92               | 20.94               | 0                         | 0        |
|           |            | 1       | 49        | 20.12               | 21.00               | 20.96               | 0                         | 0        |
|           |            | 25      | 0         | 19.84               | 20.84               | 20.97               | 0-1                       | 0        |
|           |            | 25      | 12        | 19.98               | 20.92               | 20.95               | 0-1                       | 0        |
|           |            | 25      | 24        | 20.12               | 20.95               | 20.96               | 0-1                       | 0        |
|           |            | 50      | 0         | 20.02               | 20.96               | 21.00               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.11               | 21.03               | 21.19               | 0-1                       | 0        |
|           |            | 1       | 24        | 20.26               | 21.17               | 21.21               | 0-1                       | 0        |
|           |            | 1       | 49        | 20.37               | 21.28               | 21.16               | 0-1                       | 0        |
|           |            | 25      | 0         | 19.89               | 20.84               | 20.95               | 0-2                       | 0        |
|           |            | 25      | 12        | 20.02               | 20.89               | 20.95               | 0-2                       | 0        |
|           |            | 25      | 24        | 20.16               | 21.01               | 20.95               | 0-2                       | 0        |
|           |            | 50      | 0         | 20.00               | 20.97               | 21.01               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.06               | 20.85               | 21.01               | 0-2                       | 0        |
|           |            | 1       | 24        | 20.17               | 21.05               | 21.13               | 0-2                       | 0        |
|           |            | 1       | 49        | 20.25               | 21.11               | 21.08               | 0-2                       | 0        |
|           |            | 25      | 0         | 19.90               | 20.83               | 21.00               | 0-3                       | 0        |
|           |            | 25      | 12        | 20.04               | 20.96               | 21.01               | 0-3                       | 0        |
|           |            | 25      | 24        | 20.18               | 21.01               | 20.97               | 0-3                       | 0        |
| 50        |            | 0       | 20.02     | 20.97               | 21.00               | 0-3                 | 0                         |          |

LTE Band 66 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 132047 Ch. 1717.5 MHz | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 19.79                 | 20.61               | 20.84                 | 0                         | 0        |
|           |            | 1       | 36        | 20.05                 | 20.91               | 20.92                 | 0                         | 0        |
|           |            | 1       | 74        | 20.22                 | 20.96               | 20.89                 | 0                         | 0        |
|           |            | 36      | 0         | 19.82                 | 20.76               | 20.87                 | 0-1                       | 0        |
|           |            | 36      | 18        | 20.02                 | 20.89               | 20.94                 | 0-1                       | 0        |
|           |            | 36      | 39        | 20.15                 | 20.98               | 20.94                 | 0-1                       | 0        |
|           |            | 75      | 0         | 20.05                 | 20.92               | 20.91                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.01                 | 21.00               | 21.21                 | 0-1                       | 0        |
|           |            | 1       | 36        | 20.33                 | 21.33               | 21.31                 | 0-1                       | 0        |
|           |            | 1       | 74        | 20.52                 | 21.22               | 21.14                 | 0-1                       | 0        |
|           |            | 36      | 0         | 19.87                 | 20.73               | 20.87                 | 0-2                       | 0        |
|           |            | 36      | 18        | 20.09                 | 20.87               | 20.94                 | 0-2                       | 0        |
|           |            | 36      | 39        | 20.19                 | 20.98               | 20.95                 | 0-2                       | 0        |
|           |            | 75      | 0         | 20.06                 | 20.87               | 20.90                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.98                 | 20.78               | 21.06                 | 0-2                       | 0        |
|           |            | 1       | 36        | 20.20                 | 21.10               | 21.04                 | 0-2                       | 0        |
|           |            | 1       | 74        | 20.39                 | 21.13               | 21.08                 | 0-2                       | 0        |
|           |            | 36      | 0         | 19.89                 | 20.79               | 20.93                 | 0-3                       | 0        |
|           |            | 36      | 18        | 20.11                 | 20.90               | 21.00                 | 0-3                       | 0        |
|           |            | 36      | 39        | 20.21                 | 21.04               | 20.98                 | 0-3                       | 0        |
|           |            | 75      | 0         | 20.08                 | 20.86               | 20.89                 | 0-3                       | 0        |

LTE Band 66 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132072 Ch. 1720 MHz | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 19.87               | 20.54               | 20.86               | 0                         | 0        |
|           |            | 1       | 49        | 20.22               | 20.95               | 20.92               | 0                         | 0        |
|           |            | 1       | 99        | 20.30               | 20.94               | 20.84               | 0                         | 0        |
|           |            | 50      | 0         | 19.93               | 20.71               | 20.89               | 0-1                       | 0        |
|           |            | 50      | 25        | 20.26               | 20.94               | 21.01               | 0-1                       | 0        |
|           |            | 50      | 49        | 20.27               | 21.02               | 20.93               | 0-1                       | 0        |
|           |            | 100     | 0         | 20.06               | 20.84               | 20.95               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.09               | 20.87               | 21.08               | 0-1                       | 0        |
|           |            | 1       | 49        | 20.52               | 21.28               | 21.30               | 0-1                       | 0        |
|           |            | 1       | 99        | 20.64               | 21.23               | 21.10               | 0-1                       | 0        |
|           |            | 50      | 0         | 19.91               | 20.73               | 20.92               | 0-2                       | 0        |
|           |            | 50      | 25        | 20.20               | 20.99               | 20.99               | 0-2                       | 0        |
|           |            | 50      | 49        | 20.27               | 21.02               | 20.90               | 0-2                       | 0        |
|           |            | 100     | 0         | 20.09               | 20.82               | 20.89               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.05               | 20.64               | 21.00               | 0-2                       | 0        |
|           |            | 1       | 49        | 20.30               | 21.13               | 21.05               | 0-2                       | 0        |
|           |            | 1       | 99        | 20.58               | 21.13               | 21.00               | 0-2                       | 0        |
|           |            | 50      | 0         | 19.91               | 20.71               | 20.91               | 0-3                       | 0        |
|           |            | 50      | 25        | 20.19               | 20.98               | 20.98               | 0-3                       | 0        |
|           |            | 50      | 49        | 20.33               | 21.00               | 20.92               | 0-3                       | 0        |
|           |            | 100     | 0         | 20.09               | 20.88               | 20.93               | 0-3                       | 0        |

**11.4.3 LTE Reduced Conducted Power(Grip Sensor on)  
[ LTE Band 2 Conducted Power \_ Grip Sensor on]**

LTE Band 2 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18607 Ch. 1850.7 MHz | 18900 Ch. 1880 MHz | 19193 Ch. 1909.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 20.44                | 20.38              | 20.29                | 0                         | 0        |
|           |            | 1       | 3         | 20.42                | 20.38              | 20.24                | 0                         | 0        |
|           |            | 1       | 5         | 20.39                | 20.42              | 20.24                | 0                         | 0        |
|           |            | 3       | 0         | 20.46                | 20.38              | 20.27                | 0                         | 0        |
|           |            | 3       | 1         | 20.44                | 20.39              | 20.25                | 0                         | 0        |
|           |            | 3       | 3         | 20.45                | 20.35              | 20.26                | 0                         | 0        |
|           | 6          | 0       | 20.47     | 20.37                | 20.28              | 0-1                  | 0                         |          |
|           | 16QAM      | 1       | 0         | 20.81                | 20.77              | 20.65                | 0-1                       | 0        |
|           |            | 1       | 3         | 20.76                | 20.68              | 20.57                | 0-1                       | 0        |
|           |            | 1       | 5         | 20.79                | 20.75              | 20.63                | 0-1                       | 0        |
|           |            | 3       | 0         | 20.52                | 20.42              | 20.27                | 0-1                       | 0        |
|           |            | 3       | 1         | 20.48                | 20.36              | 20.30                | 0-1                       | 0        |
|           |            | 3       | 3         | 20.43                | 20.42              | 20.22                | 0-1                       | 0        |
|           | 6          | 0       | 20.53     | 20.46                | 20.39              | 0-2                  | 0                         |          |
|           | 64QAM      | 1       | 0         | 20.59                | 20.59              | 20.42                | 0-2                       | 0        |
|           |            | 1       | 3         | 20.56                | 20.55              | 20.46                | 0-2                       | 0        |
|           |            | 1       | 5         | 20.61                | 20.47              | 20.42                | 0-2                       | 0        |
|           |            | 3       | 0         | 20.53                | 20.50              | 20.37                | 0-2                       | 0        |
| 3         |            | 1       | 20.58     | 20.50                | 20.37              | 0-2                  | 0                         |          |
| 3         |            | 3       | 20.55     | 20.50                | 20.35              | 0-2                  | 0                         |          |
| 6         | 0          | 20.44   | 20.40     | 20.30                | 0-3                | 0                    |                           |          |

LTE Band 2 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18615 Ch. 1851.5 MHz | 18900 Ch. 1880 MHz | 19185 Ch. 1908.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 20.45                | 20.37              | 20.28                | 0                         | 0        |
|           |            | 1       | 7         | 20.46                | 20.40              | 20.26                | 0                         | 0        |
|           |            | 1       | 14        | 20.45                | 20.40              | 20.24                | 0                         | 0        |
|           |            | 8       | 0         | 20.47                | 20.37              | 20.27                | 0-1                       | 0        |
|           |            | 8       | 3         | 20.45                | 20.38              | 20.29                | 0-1                       | 0        |
|           |            | 8       | 7         | 20.44                | 20.39              | 20.27                | 0-1                       | 0        |
|           | 15         | 0       | 20.47     | 20.39                | 20.31              | 0-1                  | 0                         |          |
|           | 16QAM      | 1       | 0         | 20.76                | 20.67              | 20.51                | 0-1                       | 0        |
|           |            | 1       | 7         | 20.73                | 20.61              | 20.47                | 0-1                       | 0        |
|           |            | 1       | 14        | 20.67                | 20.61              | 20.60                | 0-1                       | 0        |
|           |            | 8       | 0         | 20.55                | 20.44              | 20.35                | 0-2                       | 0        |
|           |            | 8       | 3         | 20.57                | 20.46              | 20.38                | 0-2                       | 0        |
|           |            | 8       | 7         | 20.52                | 20.47              | 20.39                | 0-2                       | 0        |
|           | 15         | 0       | 20.51     | 20.44                | 20.33              | 0-2                  | 0                         |          |
|           | 64QAM      | 1       | 0         | 20.64                | 20.60              | 20.49                | 0-2                       | 0        |
|           |            | 1       | 7         | 20.68                | 20.59              | 20.48                | 0-2                       | 0        |
|           |            | 1       | 14        | 20.63                | 20.55              | 20.52                | 0-2                       | 0        |
|           |            | 8       | 0         | 20.55                | 20.44              | 20.31                | 0-3                       | 0        |
| 8         |            | 3       | 20.53     | 20.44                | 20.37              | 0-3                  | 0                         |          |
| 8         |            | 7       | 20.51     | 20.41                | 20.35              | 0-3                  | 0                         |          |
| 15        | 0          | 20.45   | 20.42     | 20.38                | 0-3                | 0                    |                           |          |

LTE Band 2 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18625 Ch. 1852.5 MHz | 18900 Ch. 1880 MHz | 19175 Ch. 1907.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.51                | 20.45              | 20.31                | 0                         | 0        |
|           |            | 1       | 12        | 20.55                | 20.45              | 20.34                | 0                         | 0        |
|           |            | 1       | 24        | 20.50                | 20.46              | 20.34                | 0                         | 0        |
|           |            | 12      | 0         | 20.53                | 20.48              | 20.40                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.50                | 20.41              | 20.32                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.51                | 20.42              | 20.34                | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 20.51                | 20.43              | 20.32                | 0-1                       | 0        |
|           |            | 1       | 0         | 20.70                | 20.64              | 20.65                | 0-1                       | 0        |
|           |            | 1       | 12        | 20.78                | 20.73              | 20.57                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.77                | 20.64              | 20.59                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.48                | 20.47              | 20.37                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.51                | 20.47              | 20.32                | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 20.51                | 20.37              | 20.31                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.53                | 20.50              | 20.37                | 0-2                       | 0        |
|           |            | 1       | 0         | 20.63                | 20.57              | 20.49                | 0-2                       | 0        |
|           |            | 1       | 12        | 20.63                | 20.59              | 20.52                | 0-2                       | 0        |
|           |            | 1       | 24        | 20.70                | 20.67              | 20.51                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.57                | 20.47              | 20.43                | 0-3                       | 0        |
|           | 12         | 6       | 20.54     | 20.44                | 20.37              | 0-3                  | 0                         |          |
|           | 12         | 11      | 20.56     | 20.46                | 20.36              | 0-3                  | 0                         |          |
|           | 25         | 0       | 20.53     | 20.49                | 20.34              | 0-3                  | 0                         |          |

LTE Band 2 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18650 Ch. 1855 MHz  | 18900 Ch. 1880 MHz | 19150 Ch. 1905 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.47               | 20.35              | 20.31              | 0                         | 0        |
|           |            | 1       | 24        | 20.51               | 20.44              | 20.33              | 0                         | 0        |
|           |            | 1       | 49        | 20.42               | 20.39              | 20.30              | 0                         | 0        |
|           |            | 25      | 0         | 20.49               | 20.39              | 20.39              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.55               | 20.40              | 20.31              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.47               | 20.40              | 20.28              | 0-1                       | 0        |
|           | 16QAM      | 50      | 0         | 20.50               | 20.37              | 20.35              | 0-1                       | 0        |
|           |            | 1       | 0         | 20.81               | 20.71              | 20.58              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.77               | 20.71              | 20.68              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.69               | 20.63              | 20.55              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.47               | 20.42              | 20.48              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.52               | 20.43              | 20.34              | 0-2                       | 0        |
|           | 64QAM      | 25      | 24        | 20.53               | 20.44              | 20.28              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.56               | 20.36              | 20.38              | 0-2                       | 0        |
|           |            | 1       | 0         | 20.68               | 20.46              | 20.43              | 0-2                       | 0        |
|           |            | 1       | 24        | 20.65               | 20.55              | 20.56              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.60               | 20.58              | 20.46              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.46               | 20.40              | 20.45              | 0-3                       | 0        |
|           | 25         | 12      | 20.56     | 20.43               | 20.34              | 0-3                | 0                         |          |
|           | 25         | 24      | 20.54     | 20.41               | 20.29              | 0-3                | 0                         |          |
|           | 50         | 0       | 20.53     | 20.41               | 20.33              | 0-3                | 0                         |          |

LTE Band 2 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 18675 Ch. 1857.5 MHz | 18900 Ch. 1880 MHz | 19125 Ch. 1902.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.40                | 20.33              | 20.13                | 0                         | 0        |
|           |            | 1       | 36        | 20.46                | 20.41              | 20.32                | 0                         | 0        |
|           |            | 1       | 74        | 20.39                | 20.25              | 20.23                | 0                         | 0        |
|           |            | 36      | 0         | 20.42                | 20.35              | 20.30                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.46                | 20.37              | 20.28                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.47                | 20.35              | 20.24                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.43                | 20.34              | 20.32                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.59                | 20.63              | 20.37                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.72                | 20.72              | 20.53                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.70                | 20.56              | 20.60                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.48                | 20.41              | 20.35                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.46                | 20.39              | 20.28                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.44                | 20.37              | 20.27                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.43                | 20.34              | 20.30                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.56                | 20.49              | 20.37                | 0-2                       | 0        |
|           |            | 1       | 36        | 20.61                | 20.61              | 20.44                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.46                | 20.50              | 20.42                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.47                | 20.40              | 20.37                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.52                | 20.39              | 20.33                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.50                | 20.39              | 20.26                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.47                | 20.40              | 20.34                | 0-3                       | 0        |

LTE Band 2 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 18700 Ch. 1860 MHz  | 18900 Ch. 1880 MHz | 19100 Ch. 1900 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.35               | 20.35              | 20.23              | 0                         | 0        |
|           |            | 1       | 49        | 20.47               | 20.45              | 20.28              | 0                         | 0        |
|           |            | 1       | 99        | 20.36               | 20.21              | 20.20              | 0                         | 0        |
|           |            | 50      | 0         | 20.46               | 20.40              | 20.28              | 0-1                       | 0        |
|           |            | 50      | 25        | 20.51               | 20.40              | 20.29              | 0-1                       | 0        |
|           |            | 50      | 49        | 20.45               | 20.36              | 20.15              | 0-1                       | 0        |
|           |            | 100     | 0         | 20.48               | 20.36              | 20.22              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.69               | 20.68              | 20.50              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.73               | 20.67              | 20.42              | 0-1                       | 0        |
|           |            | 1       | 99        | 20.53               | 20.55              | 20.51              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.43               | 20.43              | 20.30              | 0-2                       | 0        |
|           |            | 50      | 25        | 20.48               | 20.45              | 20.35              | 0-2                       | 0        |
|           |            | 50      | 49        | 20.51               | 20.38              | 20.19              | 0-2                       | 0        |
|           |            | 100     | 0         | 20.40               | 20.37              | 20.23              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.53               | 20.53              | 20.42              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.63               | 20.60              | 20.45              | 0-2                       | 0        |
|           |            | 1       | 99        | 20.53               | 20.33              | 20.39              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.48               | 20.41              | 20.33              | 0-3                       | 0        |
|           |            | 50      | 25        | 20.54               | 20.42              | 20.34              | 0-3                       | 0        |
|           |            | 50      | 49        | 20.47               | 20.38              | 20.18              | 0-3                       | 0        |
|           |            | 100     | 0         | 20.48               | 20.42              | 20.24              | 0-3                       | 0        |

**[ LTE Band 4 Conducted Power \_ Grip Sensor on]**

LTE Band 4 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19957 Ch. 1710.7 MHz | 20175 Ch. 1732.5 MHz | 20393 Ch. 1754.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 19.59                | 20.17                | 20.70                | 0                         | 0        |
|           |            | 1       | 3         | 19.62                | 20.19                | 20.72                | 0                         | 0        |
|           |            | 1       | 5         | 19.61                | 20.20                | 20.73                | 0                         | 0        |
|           |            | 3       | 0         | 19.60                | 20.18                | 20.71                | 0                         | 0        |
|           |            | 3       | 1         | 19.56                | 20.18                | 20.73                | 0                         | 0        |
|           |            | 3       | 3         | 19.57                | 20.21                | 20.76                | 0                         | 0        |
|           |            | 6       | 0         | 19.64                | 20.22                | 20.75                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.82                | 20.50                | 21.10                | 0-1                       | 0        |
|           |            | 1       | 3         | 19.94                | 20.57                | 21.02                | 0-1                       | 0        |
|           |            | 1       | 5         | 19.89                | 20.54                | 21.06                | 0-1                       | 0        |
|           |            | 3       | 0         | 19.57                | 20.15                | 20.77                | 0-1                       | 0        |
|           |            | 3       | 1         | 19.56                | 20.16                | 20.81                | 0-1                       | 0        |
|           |            | 3       | 3         | 19.61                | 20.12                | 20.67                | 0-1                       | 0        |
|           |            | 6       | 0         | 19.68                | 20.30                | 20.85                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.78                | 20.34                | 20.84                | 0-2                       | 0        |
|           |            | 1       | 3         | 19.79                | 20.39                | 20.85                | 0-2                       | 0        |
|           |            | 1       | 5         | 19.74                | 20.34                | 20.82                | 0-2                       | 0        |
|           |            | 3       | 0         | 19.69                | 20.25                | 20.82                | 0-2                       | 0        |
|           |            | 3       | 1         | 19.71                | 20.32                | 20.84                | 0-2                       | 0        |
|           |            | 3       | 3         | 19.70                | 20.36                | 20.84                | 0-2                       | 0        |
|           |            | 6       | 0         | 19.61                | 20.22                | 20.74                | 0-3                       | 0        |

LTE Band 4 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19965 Ch. 1711.5 MHz | 20175 Ch. 1732.5 MHz | 20385 Ch. 1753.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 19.57                | 20.12                | 20.74                | 0                         | 0        |
|           |            | 1       | 7         | 19.55                | 20.26                | 20.75                | 0                         | 0        |
|           |            | 1       | 14        | 19.57                | 20.27                | 20.69                | 0                         | 0        |
|           |            | 8       | 0         | 19.59                | 20.13                | 20.75                | 0-1                       | 0        |
|           |            | 8       | 3         | 19.57                | 20.23                | 20.76                | 0-1                       | 0        |
|           |            | 8       | 7         | 19.56                | 20.19                | 20.75                | 0-1                       | 0        |
|           |            | 15      | 0         | 19.58                | 20.18                | 20.74                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.93                | 20.48                | 20.93                | 0-1                       | 0        |
|           |            | 1       | 7         | 19.89                | 20.55                | 21.10                | 0-1                       | 0        |
|           |            | 1       | 14        | 19.80                | 20.52                | 21.06                | 0-1                       | 0        |
|           |            | 8       | 0         | 19.67                | 20.25                | 20.83                | 0-2                       | 0        |
|           |            | 8       | 3         | 19.66                | 20.28                | 20.82                | 0-2                       | 0        |
|           |            | 8       | 7         | 19.68                | 20.30                | 20.88                | 0-2                       | 0        |
|           |            | 15      | 0         | 19.61                | 20.23                | 20.79                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.77                | 20.31                | 20.86                | 0-2                       | 0        |
|           |            | 1       | 7         | 19.82                | 20.41                | 20.92                | 0-2                       | 0        |
|           |            | 1       | 14        | 19.75                | 20.47                | 20.94                | 0-2                       | 0        |
|           |            | 8       | 0         | 19.63                | 20.21                | 20.81                | 0-3                       | 0        |
|           |            | 8       | 3         | 19.67                | 20.24                | 20.80                | 0-3                       | 0        |
|           |            | 8       | 7         | 19.66                | 20.24                | 20.77                | 0-3                       | 0        |
|           |            | 15      | 0         | 19.66                | 20.21                | 20.74                | 0-3                       | 0        |



LTE Band 4 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 19975 Ch. 1712.5 MHz | 20175 Ch. 1732.5 MHz | 20375 Ch. 1752.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 19.63                | 20.18                | 20.69                | 0                         | 0        |
|           |            | 1       | 12        | 19.69                | 20.26                | 20.75                | 0                         | 0        |
|           |            | 1       | 24        | 19.69                | 20.25                | 20.77                | 0                         | 0        |
|           |            | 12      | 0         | 19.58                | 20.22                | 20.77                | 0-1                       | 0        |
|           |            | 12      | 6         | 19.65                | 20.19                | 20.78                | 0-1                       | 0        |
|           |            | 12      | 11        | 19.70                | 20.21                | 20.75                | 0-1                       | 0        |
|           |            | 25      | 0         | 19.69                | 20.24                | 20.79                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.86                | 20.49                | 21.01                | 0-1                       | 0        |
|           |            | 1       | 12        | 19.97                | 20.57                | 21.09                | 0-1                       | 0        |
|           |            | 1       | 24        | 19.98                | 20.61                | 20.94                | 0-1                       | 0        |
|           |            | 12      | 0         | 19.59                | 20.24                | 20.76                | 0-2                       | 0        |
|           |            | 12      | 6         | 19.61                | 20.25                | 20.76                | 0-2                       | 0        |
|           |            | 12      | 11        | 19.70                | 20.23                | 20.75                | 0-2                       | 0        |
|           |            | 25      | 0         | 19.65                | 20.29                | 20.80                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.80                | 20.34                | 20.89                | 0-2                       | 0        |
|           |            | 1       | 12        | 19.82                | 20.41                | 20.85                | 0-2                       | 0        |
|           |            | 1       | 24        | 19.82                | 20.39                | 20.82                | 0-2                       | 0        |
|           |            | 12      | 0         | 19.60                | 20.25                | 20.77                | 0-3                       | 0        |
|           |            | 12      | 6         | 19.62                | 20.24                | 20.82                | 0-3                       | 0        |
|           |            | 12      | 11        | 19.73                | 20.22                | 20.74                | 0-3                       | 0        |
|           |            | 25      | 0         | 19.68                | 20.27                | 20.77                | 0-3                       | 0        |

LTE Band 4 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20000 Ch. 1715 MHz  | 20175 Ch. 1732.5 MHz | 20350 Ch. 1750 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 19.66               | 20.06                | 20.54              | 0                         | 0        |
|           |            | 1       | 24        | 19.74               | 20.23                | 20.72              | 0                         | 0        |
|           |            | 1       | 49        | 19.88               | 20.32                | 20.75              | 0                         | 0        |
|           |            | 25      | 0         | 19.55               | 20.19                | 20.69              | 0-1                       | 0        |
|           |            | 25      | 12        | 19.69               | 20.21                | 20.73              | 0-1                       | 0        |
|           |            | 25      | 24        | 19.86               | 20.27                | 20.72              | 0-1                       | 0        |
|           |            | 50      | 0         | 19.72               | 20.29                | 20.74              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.87               | 20.39                | 20.91              | 0-1                       | 0        |
|           |            | 1       | 24        | 19.99               | 20.48                | 21.06              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.08               | 20.68                | 20.99              | 0-1                       | 0        |
|           |            | 25      | 0         | 19.58               | 20.19                | 20.66              | 0-2                       | 0        |
|           |            | 25      | 12        | 19.72               | 20.23                | 20.73              | 0-2                       | 0        |
|           |            | 25      | 24        | 19.86               | 20.31                | 20.72              | 0-2                       | 0        |
|           |            | 50      | 0         | 19.73               | 20.25                | 20.72              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.73               | 20.30                | 20.70              | 0-2                       | 0        |
|           |            | 1       | 24        | 19.84               | 20.41                | 20.84              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.01               | 20.54                | 20.91              | 0-2                       | 0        |
|           |            | 25      | 0         | 19.59               | 20.15                | 20.69              | 0-3                       | 0        |
|           |            | 25      | 12        | 19.70               | 20.22                | 20.72              | 0-3                       | 0        |
|           |            | 25      | 24        | 19.85               | 20.29                | 20.70              | 0-3                       | 0        |
|           |            | 50      | 0         | 19.71               | 20.28                | 20.72              | 0-3                       | 0        |

LTE Band 4 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20025 Ch. 1717.5 MHz | 20175 Ch. 1732.5 MHz | 20325 Ch. 1747.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 19.52                | 19.99                | 20.39                | 0                         | 0        |
|           |            | 1       | 36        | 19.76                | 20.18                | 20.66                | 0                         | 0        |
|           |            | 1       | 74        | 19.93                | 20.34                | 20.68                | 0                         | 0        |
|           |            | 36      | 0         | 19.54                | 20.07                | 20.45                | 0-1                       | 0        |
|           |            | 36      | 18        | 19.76                | 20.19                | 20.58                | 0-1                       | 0        |
|           |            | 36      | 39        | 19.85                | 20.32                | 20.63                | 0-1                       | 0        |
|           |            | 75      | 0         | 19.76                | 20.22                | 20.61                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.79                | 20.28                | 20.63                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.05                | 20.50                | 20.87                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.30                | 20.53                | 20.96                | 0-1                       | 0        |
|           |            | 36      | 0         | 19.59                | 20.11                | 20.46                | 0-2                       | 0        |
|           |            | 36      | 18        | 19.76                | 20.23                | 20.60                | 0-2                       | 0        |
|           |            | 36      | 39        | 19.94                | 20.32                | 20.66                | 0-2                       | 0        |
|           |            | 75      | 0         | 19.73                | 20.25                | 20.61                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.69                | 20.15                | 20.58                | 0-2                       | 0        |
|           |            | 1       | 36        | 19.90                | 20.35                | 20.76                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.14                | 20.51                | 20.83                | 0-2                       | 0        |
|           |            | 36      | 0         | 19.59                | 20.12                | 20.57                | 0-3                       | 0        |
|           |            | 36      | 18        | 19.80                | 20.19                | 20.62                | 0-3                       | 0        |
|           |            | 36      | 39        | 19.93                | 20.36                | 20.68                | 0-3                       | 0        |
|           |            | 75      | 0         | 19.77                | 20.22                | 20.62                | 0-3                       | 0        |

LTE Band 4 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------------|----------|
|           |            |         |           | 20175 Ch. 1732.5 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 19.92                | 0                         | 0        |
|           |            | 1       | 49        | 20.23                | 0                         | 0        |
|           |            | 1       | 99        | 20.38                | 0                         | 0        |
|           |            | 50      | 0         | 20.12                | 0-1                       | 0        |
|           |            | 50      | 25        | 20.26                | 0-1                       | 0        |
|           |            | 50      | 49        | 20.39                | 0-1                       | 0        |
|           |            | 100     | 0         | 20.25                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.18                | 0-1                       | 0        |
|           |            | 1       | 49        | 20.46                | 0-1                       | 0        |
|           |            | 1       | 99        | 20.65                | 0-1                       | 0        |
|           |            | 50      | 0         | 20.11                | 0-2                       | 0        |
|           |            | 50      | 25        | 20.27                | 0-2                       | 0        |
|           |            | 50      | 49        | 20.40                | 0-2                       | 0        |
|           |            | 100     | 0         | 20.25                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.06                | 0-2                       | 0        |
|           |            | 1       | 49        | 20.38                | 0-2                       | 0        |
|           |            | 1       | 99        | 20.46                | 0-2                       | 0        |
|           |            | 50      | 0         | 20.17                | 0-3                       | 0        |
|           |            | 50      | 25        | 20.26                | 0-3                       | 0        |
|           |            | 50      | 49        | 20.38                | 0-3                       | 0        |
|           |            | 100     | 0         | 20.23                | 0-3                       | 0        |

**[ LTE Band 7 Conducted Power \_ Grip Sensor on]**

LTE Band 7\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 17.46                | 17.82              | 18.11                | 0                         | 0        |   |
|           |            | 1       | 12        | 17.55                | 17.84              | 18.20                | 0                         | 0        |   |
|           |            | 1       | 24        | 17.56                | 17.76              | 18.22                | 0                         | 0        |   |
|           |            | 12      | 0         | 17.52                | 17.84              | 18.14                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 17.50                | 17.79              | 18.16                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 17.53                | 17.75              | 18.22                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 17.45                | 17.83              | 18.20                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 17.66                | 18.04              | 18.33                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 17.84                | 18.04              | 18.40                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 17.84                | 18.05              | 18.52                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 17.50                | 17.86              | 18.13                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 17.48                | 17.77              | 18.18                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 17.50                | 17.77              | 18.22                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 17.56                | 17.81              | 18.22                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 17.57                | 17.98              | 18.30                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 17.66                | 17.94              | 18.29                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 17.75                | 17.92              | 18.37                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 17.49                | 17.84              | 18.23                | 0-3                       | 0        |   |
|           |            | 64QAM   | 12        | 6                    | 17.50              | 17.82                | 18.25                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 17.57              | 17.82                | 18.20                     | 0-3      | 0 |
|           |            |         | 25        | 0                    | 17.54              | 17.81                | 18.20                     | 0-3      | 0 |

LTE Band 7\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|---|
|           |            |         |           | 20800 Ch. 2505 MHz  | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz |                           |          |   |
| 10 MHz    | QPSK       | 1       | 0         | 17.43               | 17.82              | 18.04              | 0                         | 0        |   |
|           |            | 1       | 24        | 17.57               | 17.83              | 18.13              | 0                         | 0        |   |
|           |            | 1       | 49        | 17.63               | 17.79              | 18.18              | 0                         | 0        |   |
|           |            | 25      | 0         | 17.44               | 17.79              | 18.09              | 0-1                       | 0        |   |
|           |            | 25      | 12        | 17.54               | 17.82              | 18.13              | 0-1                       | 0        |   |
|           |            | 25      | 24        | 17.61               | 17.78              | 18.19              | 0-1                       | 0        |   |
|           | 16QAM      | 50      | 0         | 17.43               | 17.79              | 18.04              | 0-1                       | 0        |   |
|           |            | 1       | 0         | 17.65               | 18.03              | 18.26              | 0-1                       | 0        |   |
|           |            | 1       | 24        | 17.92               | 18.07              | 18.33              | 0-1                       | 0        |   |
|           |            | 1       | 49        | 17.90               | 18.05              | 18.41              | 0-1                       | 0        |   |
|           |            | 25      | 0         | 17.42               | 17.84              | 18.11              | 0-2                       | 0        |   |
|           |            | 25      | 12        | 17.56               | 17.79              | 18.08              | 0-2                       | 0        |   |
|           | 64QAM      | 25      | 24        | 17.58               | 17.79              | 18.20              | 0-2                       | 0        |   |
|           |            | 50      | 0         | 17.69               | 18.07              | 18.32              | 0-2                       | 0        |   |
|           |            | 1       | 0         | 17.53               | 17.97              | 18.11              | 0-2                       | 0        |   |
|           |            | 1       | 24        | 17.73               | 18.01              | 18.26              | 0-2                       | 0        |   |
|           |            | 1       | 49        | 17.70               | 17.85              | 18.33              | 0-2                       | 0        |   |
|           |            | 25      | 0         | 17.48               | 17.81              | 18.09              | 0-3                       | 0        |   |
|           |            | 64QAM   | 25        | 12                  | 17.59              | 17.77              | 18.13                     | 0-3      | 0 |
|           |            |         | 25        | 24                  | 17.63              | 17.80              | 18.21                     | 0-3      | 0 |
|           |            |         | 50        | 0                   | 17.58              | 17.97              | 18.16                     | 0-3      | 0 |

LTE Band 7\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 17.41                | 17.77              | 17.83                | 0                         | 0        |
|           |            | 1       | 36        | 17.62                | 17.84              | 18.09                | 0                         | 0        |
|           |            | 1       | 74        | 17.68                | 17.70              | 18.12                | 0                         | 0        |
|           |            | 36      | 0         | 17.49                | 17.86              | 18.03                | 0-1                       | 0        |
|           |            | 36      | 18        | 17.64                | 17.81              | 18.09                | 0-1                       | 0        |
|           |            | 36      | 39        | 17.70                | 17.74              | 18.11                | 0-1                       | 0        |
|           |            | 75      | 0         | 17.39                | 17.73              | 17.91                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.63                | 18.08              | 18.10                | 0-1                       | 0        |
|           |            | 1       | 36        | 17.99                | 18.17              | 18.43                | 0-1                       | 0        |
|           |            | 1       | 74        | 18.02                | 17.91              | 18.38                | 0-1                       | 0        |
|           |            | 36      | 0         | 17.53                | 17.82              | 17.96                | 0-2                       | 0        |
|           |            | 36      | 18        | 17.62                | 17.82              | 18.14                | 0-2                       | 0        |
|           |            | 36      | 39        | 17.72                | 17.76              | 18.13                | 0-2                       | 0        |
|           |            | 75      | 0         | 17.71                | 18.07              | 18.23                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.48                | 17.94              | 18.13                | 0-2                       | 0        |
|           |            | 1       | 36        | 17.81                | 18.03              | 18.27                | 0-2                       | 0        |
|           |            | 1       | 74        | 17.86                | 17.91              | 18.24                | 0-2                       | 0        |
|           |            | 36      | 0         | 17.54                | 17.87              | 18.07                | 0-3                       | 0        |
|           |            | 36      | 18        | 17.66                | 17.84              | 18.14                | 0-3                       | 0        |
|           |            | 36      | 39        | 17.69                | 17.74              | 18.12                | 0-3                       | 0        |
|           |            | 75      | 0         | 17.57                | 17.91              | 18.08                | 0-3                       | 0        |

LTE Band 7\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20850 Ch. 2510 MHz  | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 17.37               | 17.74              | 17.77              | 0                         | 0        |
|           |            | 1       | 49        | 17.73               | 17.86              | 18.02              | 0                         | 0        |
|           |            | 1       | 99        | 17.72               | 17.69              | 18.07              | 0                         | 0        |
|           |            | 50      | 0         | 17.60               | 17.88              | 17.98              | 0-1                       | 0        |
|           |            | 50      | 25        | 17.72               | 17.86              | 18.02              | 0-1                       | 0        |
|           |            | 50      | 49        | 17.91               | 17.77              | 18.17              | 0-1                       | 0        |
|           |            | 100     | 0         | 17.38               | 17.75              | 17.79              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.55               | 17.99              | 18.06              | 0-1                       | 0        |
|           |            | 1       | 49        | 17.99               | 18.17              | 18.28              | 0-1                       | 0        |
|           |            | 1       | 99        | 17.94               | 17.99              | 18.37              | 0-1                       | 0        |
|           |            | 50      | 0         | 17.66               | 17.93              | 17.98              | 0-2                       | 0        |
|           |            | 50      | 25        | 17.72               | 17.90              | 18.09              | 0-2                       | 0        |
|           |            | 50      | 49        | 17.88               | 17.78              | 18.15              | 0-2                       | 0        |
|           |            | 100     | 0         | 17.58               | 18.01              | 18.04              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.50               | 17.94              | 17.88              | 0-2                       | 0        |
|           |            | 1       | 49        | 17.83               | 18.00              | 18.17              | 0-2                       | 0        |
|           |            | 1       | 99        | 17.86               | 17.78              | 18.20              | 0-2                       | 0        |
|           |            | 50      | 0         | 17.66               | 17.92              | 17.96              | 0-3                       | 0        |
|           |            | 50      | 25        | 17.73               | 17.90              | 18.07              | 0-3                       | 0        |
|           |            | 50      | 49        | 17.87               | 17.77              | 18.15              | 0-3                       | 0        |
|           |            | 100     | 0         | 17.50               | 17.92              | 17.96              | 0-3                       | 0        |

**[ LTE Band 13 Conducted Power \_ Grip Sensor on]**

LTE Band 13 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz   |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 21.09               | 0                         | 0        |
|           |            | 1       | 24        | 21.05               | 0                         | 0        |
|           |            | 1       | 49        | 21.04               | 0                         | 0        |
|           |            | 25      | 0         | 21.07               | 0-1                       | 0        |
|           |            | 25      | 12        | 20.99               | 0-1                       | 0        |
|           |            | 25      | 24        | 20.99               | 0-1                       | 0        |
|           |            | 50      | 0         | 21.03               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.37               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.43               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.38               | 0-1                       | 0        |
|           |            | 25      | 0         | 21.07               | 0-2                       | 0        |
|           |            | 25      | 12        | 21.00               | 0-2                       | 0        |
|           |            | 25      | 24        | 21.03               | 0-2                       | 0        |
|           |            | 50      | 0         | 21.05               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.19               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.20               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.21               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.14               | 0-3                       | 0        |
|           |            | 25      | 12        | 21.05               | 0-3                       | 0        |
|           |            | 25      | 24        | 21.01               | 0-3                       | 0        |
|           |            | 50      | 0         | 21.05               | 0-3                       | 0        |

LTE Band 13 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 23230 Ch. 782 MHz   |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 21.13               | 0                         | 0        |
|           |            | 1       | 24        | 21.07               | 0                         | 0        |
|           |            | 1       | 49        | 20.97               | 0                         | 0        |
|           |            | 25      | 0         | 21.04               | 0-1                       | 0        |
|           |            | 25      | 12        | 21.04               | 0-1                       | 0        |
|           |            | 25      | 24        | 21.10               | 0-1                       | 0        |
|           |            | 50      | 0         | 21.12               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.45               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.33               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.18               | 0-1                       | 0        |
|           |            | 25      | 0         | 21.05               | 0-2                       | 0        |
|           |            | 25      | 12        | 21.08               | 0-2                       | 0        |
|           |            | 25      | 24        | 21.13               | 0-2                       | 0        |
|           |            | 50      | 0         | 21.11               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 21.30               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.32               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.07               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.07               | 0-3                       | 0        |
|           |            | 25      | 12        | 21.07               | 0-3                       | 0        |
|           |            | 25      | 24        | 21.13               | 0-3                       | 0        |
|           |            | 50      | 0         | 21.07               | 0-3                       | 0        |

**[ LTE Band 14 Conducted Power \_ Grip Sensor on]**

LTE Band 14 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                   |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|-------------------|---------------------|---------------------------|----------|
|           |            |         |           | 23305 Ch. 790.5 MHz | 23330 Ch. 793 MHz | 23355 Ch. 795.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 21.05               | 21.10             | 21.17               | 0                         | 0        |
|           |            | 1       | 12        | 21.10               | 21.16             | 21.20               | 0                         | 0        |
|           |            | 1       | 24        | 21.11               | 21.19             | 21.22               | 0                         | 0        |
|           |            | 12      | 0         | 21.08               | 21.13             | 21.17               | 0-1                       | 0        |
|           |            | 12      | 6         | 21.10               | 21.16             | 21.18               | 0-1                       | 0        |
|           |            | 12      | 11        | 21.10               | 21.13             | 21.15               | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 21.10               | 21.16             | 21.18               | 0-1                       | 0        |
|           |            | 1       | 0         | 21.32               | 21.30             | 21.46               | 0-1                       | 0        |
|           |            | 1       | 12        | 21.45               | 21.55             | 21.52               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.51               | 21.50             | 21.59               | 0-1                       | 0        |
|           |            | 12      | 0         | 21.07               | 21.12             | 21.17               | 0-2                       | 0        |
|           |            | 12      | 6         | 21.11               | 21.09             | 21.18               | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 21.10               | 21.13             | 21.14               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.11               | 21.17             | 21.22               | 0-2                       | 0        |
|           |            | 1       | 0         | 21.21               | 21.29             | 21.37               | 0-2                       | 0        |
|           |            | 1       | 12        | 21.35               | 21.31             | 21.32               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.38               | 21.35             | 21.36               | 0-2                       | 0        |
|           |            | 12      | 0         | 21.08               | 21.19             | 21.20               | 0-3                       | 0        |
|           |            | 12      | 6         | 21.13               | 21.17             | 21.19               | 0-3                       | 0        |
|           | 12         | 11      | 21.12     | 21.16               | 21.22             | 0-3                 | 0                         |          |
|           | 25         | 0       | 21.09     | 21.18               | 21.19             | 0-3                 | 0                         |          |

LTE Band 14 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 23330 Ch. 793 MHz   |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.93               | 0                         | 0        |
|           |            | 1       | 24        | 21.07               | 0                         | 0        |
|           |            | 1       | 49        | 21.07               | 0                         | 0        |
|           |            | 25      | 0         | 21.00               | 0-1                       | 0        |
|           |            | 25      | 12        | 21.03               | 0-1                       | 0        |
|           |            | 25      | 24        | 21.09               | 0-1                       | 0        |
|           | 16QAM      | 50      | 0         | 21.06               | 0-1                       | 0        |
|           |            | 1       | 0         | 21.16               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.46               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.38               | 0-1                       | 0        |
|           |            | 25      | 0         | 21.01               | 0-2                       | 0        |
|           |            | 25      | 12        | 21.10               | 0-2                       | 0        |
|           | 64QAM      | 25      | 24        | 21.11               | 0-2                       | 0        |
|           |            | 50      | 0         | 21.04               | 0-2                       | 0        |
|           |            | 1       | 0         | 21.05               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.29               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.28               | 0-2                       | 0        |
|           |            | 25      | 0         | 21.03               | 0-3                       | 0        |
|           |            | 25      | 12        | 21.06               | 0-3                       | 0        |
|           | 25         | 24      | 21.13     | 0-3                 | 0                         |          |
|           | 50         | 0       | 21.10     | 0-3                 | 0                         |          |

**[ LTE Band 25 Conducted Power \_ Grip Sensor on]**

LTE Band 25 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26047 Ch. 1850.7 MHz | 26365 Ch. 1882.5 MHz | 26683 Ch. 1914.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 20.54                | 20.40                | 20.31                | 0                         | 0        |
|           |            | 1       | 3         | 20.58                | 20.41                | 20.34                | 0                         | 0        |
|           |            | 1       | 5         | 20.55                | 20.42                | 20.33                | 0                         | 0        |
|           |            | 3       | 0         | 20.55                | 20.44                | 20.35                | 0                         | 0        |
|           |            | 3       | 1         | 20.56                | 20.44                | 20.39                | 0                         | 0        |
|           |            | 3       | 3         | 20.54                | 20.40                | 20.38                | 0                         | 0        |
|           | 16QAM      | 6       | 0         | 20.55                | 20.44                | 20.39                | 0-1                       | 0        |
|           |            | 1       | 0         | 20.83                | 20.71                | 20.57                | 0-1                       | 0        |
|           |            | 1       | 3         | 20.83                | 20.70                | 20.70                | 0-1                       | 0        |
|           |            | 1       | 5         | 20.85                | 20.73                | 20.69                | 0-1                       | 0        |
|           |            | 3       | 0         | 20.55                | 20.41                | 20.38                | 0-1                       | 0        |
|           |            | 3       | 1         | 20.59                | 20.49                | 20.36                | 0-1                       | 0        |
|           | 64QAM      | 3       | 3         | 20.51                | 20.39                | 20.40                | 0-1                       | 0        |
|           |            | 6       | 0         | 20.64                | 20.57                | 20.46                | 0-2                       | 0        |
|           |            | 1       | 0         | 20.68                | 20.61                | 20.51                | 0-2                       | 0        |
|           |            | 1       | 3         | 20.67                | 20.62                | 20.53                | 0-2                       | 0        |
|           |            | 1       | 5         | 20.67                | 20.49                | 20.60                | 0-2                       | 0        |
|           |            | 3       | 0         | 20.61                | 20.56                | 20.45                | 0-2                       | 0        |
|           |            | 3       | 1         | 20.61                | 20.51                | 20.50                | 0-2                       | 0        |
|           |            | 3       | 3         | 20.64                | 20.50                | 20.48                | 0-2                       | 0        |
|           |            | 6       | 0         | 20.51                | 20.45                | 20.38                | 0-3                       | 0        |

LTE Band 25 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26055 Ch. 1851.5 MHz | 26365 Ch. 1882.5 MHz | 26675 Ch. 1913.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 20.55                | 20.45                | 20.36                | 0                         | 0        |
|           |            | 1       | 7         | 20.57                | 20.47                | 20.38                | 0                         | 0        |
|           |            | 1       | 14        | 20.54                | 20.44                | 20.37                | 0                         | 0        |
|           |            | 8       | 0         | 20.57                | 20.45                | 20.37                | 0-1                       | 0        |
|           |            | 8       | 3         | 20.53                | 20.45                | 20.39                | 0-1                       | 0        |
|           |            | 8       | 7         | 20.54                | 20.42                | 20.41                | 0-1                       | 0        |
|           |            | 15      | 0         | 20.55                | 20.43                | 20.40                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.84                | 20.82                | 20.69                | 0-1                       | 0        |
|           |            | 1       | 7         | 20.90                | 20.81                | 20.64                | 0-1                       | 0        |
|           |            | 1       | 14        | 20.93                | 20.71                | 20.55                | 0-1                       | 0        |
|           |            | 8       | 0         | 20.68                | 20.55                | 20.48                | 0-2                       | 0        |
|           |            | 8       | 3         | 20.64                | 20.59                | 20.50                | 0-2                       | 0        |
|           |            | 8       | 7         | 20.62                | 20.50                | 20.49                | 0-2                       | 0        |
|           |            | 15      | 0         | 20.62                | 20.50                | 20.45                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.77                | 20.62                | 20.48                | 0-2                       | 0        |
|           |            | 1       | 7         | 20.76                | 20.66                | 20.56                | 0-2                       | 0        |
|           |            | 1       | 14        | 20.73                | 20.62                | 20.55                | 0-2                       | 0        |
|           |            | 8       | 0         | 20.62                | 20.53                | 20.49                | 0-3                       | 0        |
|           |            | 8       | 3         | 20.62                | 20.50                | 20.47                | 0-3                       | 0        |
|           |            | 8       | 7         | 20.60                | 20.45                | 20.47                | 0-3                       | 0        |
|           |            | 15      | 0         | 20.62                | 20.45                | 20.42                | 0-3                       | 0        |

LTE Band 25\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26065 Ch. 1852.5 MHz | 26365 Ch. 1882.5 MHz | 26665 Ch. 1912.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.61                | 20.52                | 20.35                | 0                         | 0        |
|           |            | 1       | 12        | 20.64                | 20.49                | 20.42                | 0                         | 0        |
|           |            | 1       | 24        | 20.55                | 20.47                | 20.41                | 0                         | 0        |
|           |            | 12      | 0         | 20.62                | 20.48                | 20.37                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.60                | 20.50                | 20.42                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.62                | 20.43                | 20.42                | 0-1                       | 0        |
|           |            | 25      | 0         | 20.58                | 20.50                | 20.38                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.86                | 20.70                | 20.71                | 0-1                       | 0        |
|           |            | 1       | 12        | 20.80                | 20.69                | 20.71                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.75                | 20.66                | 20.70                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.59                | 20.48                | 20.41                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.61                | 20.50                | 20.42                | 0-2                       | 0        |
|           |            | 12      | 11        | 20.60                | 20.37                | 20.41                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.62                | 20.53                | 20.42                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.67                | 20.74                | 20.49                | 0-2                       | 0        |
|           |            | 1       | 12        | 20.80                | 20.66                | 20.50                | 0-2                       | 0        |
|           |            | 1       | 24        | 20.70                | 20.61                | 20.61                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.68                | 20.56                | 20.43                | 0-3                       | 0        |
|           |            | 12      | 6         | 20.63                | 20.54                | 20.46                | 0-3                       | 0        |
|           |            | 12      | 11        | 20.66                | 20.45                | 20.46                | 0-3                       | 0        |
|           |            | 25      | 0         | 20.61                | 20.50                | 20.45                | 0-3                       | 0        |

LTE Band 25\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26090 Ch. 1855 MHz  | 26365 Ch. 1882.5 MHz | 26640 Ch. 1910 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.56               | 20.48                | 20.38              | 0                         | 0        |
|           |            | 1       | 24        | 20.58               | 20.48                | 20.38              | 0                         | 0        |
|           |            | 1       | 49        | 20.54               | 20.42                | 20.36              | 0                         | 0        |
|           |            | 25      | 0         | 20.58               | 20.48                | 20.35              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.55               | 20.52                | 20.39              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.56               | 20.49                | 20.41              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.61               | 20.49                | 20.38              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.86               | 20.79                | 20.63              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.87               | 20.82                | 20.66              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.76               | 20.67                | 20.64              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.54               | 20.55                | 20.44              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.57               | 20.54                | 20.38              | 0-2                       | 0        |
|           |            | 25      | 24        | 20.65               | 20.54                | 20.50              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.63               | 20.54                | 20.41              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.70               | 20.64                | 20.48              | 0-2                       | 0        |
|           |            | 1       | 24        | 20.68               | 20.60                | 20.57              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.73               | 20.52                | 20.49              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.56               | 20.50                | 20.45              | 0-3                       | 0        |
|           |            | 25      | 12        | 20.55               | 20.48                | 20.41              | 0-3                       | 0        |
|           |            | 25      | 24        | 20.63               | 20.53                | 20.42              | 0-3                       | 0        |
|           |            | 50      | 0         | 20.62               | 20.49                | 20.41              | 0-3                       | 0        |



LTE Band 25\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 26115 Ch. 1857.5 MHz | 26365 Ch. 1882.5 MHz | 26615 Ch. 1907.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.52                | 20.41                | 20.22                | 0                         | 0        |
|           |            | 1       | 36        | 20.53                | 20.44                | 20.33                | 0                         | 0        |
|           |            | 1       | 74        | 20.44                | 20.36                | 20.32                | 0                         | 0        |
|           |            | 36      | 0         | 20.52                | 20.43                | 20.33                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.55                | 20.42                | 20.35                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.51                | 20.38                | 20.36                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.57                | 20.45                | 20.37                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.81                | 20.69                | 20.53                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.85                | 20.67                | 20.60                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.64                | 20.59                | 20.50                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.56                | 20.46                | 20.35                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.53                | 20.45                | 20.32                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.58                | 20.42                | 20.40                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.54                | 20.44                | 20.37                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.61                | 20.58                | 20.42                | 0-2                       | 0        |
|           |            | 1       | 36        | 20.69                | 20.62                | 20.53                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.62                | 20.53                | 20.49                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.59                | 20.46                | 20.41                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.52                | 20.48                | 20.40                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.60                | 20.49                | 20.45                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.53                | 20.41                | 20.37                | 0-3                       | 0        |

LTE Band 25\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 26140 Ch. 1860 MHz  | 26365 Ch. 1882.5 MHz | 26590 Ch. 1905 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.43               | 20.37                | 20.15              | 0                         | 0        |
|           |            | 1       | 49        | 20.52               | 20.43                | 20.32              | 0                         | 0        |
|           |            | 1       | 99        | 20.38               | 20.22                | 20.23              | 0                         | 0        |
|           |            | 50      | 0         | 20.38               | 20.54                | 20.42              | 0-1                       | 0        |
|           |            | 50      | 25        | 20.45               | 20.47                | 20.34              | 0-1                       | 0        |
|           |            | 50      | 49        | 20.41               | 20.47                | 20.36              | 0-1                       | 0        |
|           |            | 100     | 0         | 20.37               | 20.46                | 20.37              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.52               | 20.69                | 20.38              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.63               | 20.67                | 20.57              | 0-1                       | 0        |
|           |            | 1       | 99        | 20.40               | 20.44                | 20.56              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.51               | 20.52                | 20.45              | 0-2                       | 0        |
|           |            | 50      | 25        | 20.59               | 20.53                | 20.36              | 0-2                       | 0        |
|           |            | 50      | 49        | 20.57               | 20.45                | 20.36              | 0-2                       | 0        |
|           |            | 100     | 0         | 20.50               | 20.42                | 20.40              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.52               | 20.53                | 20.27              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.64               | 20.56                | 20.51              | 0-2                       | 0        |
|           |            | 1       | 99        | 20.49               | 20.40                | 20.48              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.48               | 20.52                | 20.43              | 0-3                       | 0        |
|           |            | 50      | 25        | 20.57               | 20.52                | 20.36              | 0-3                       | 0        |
|           |            | 50      | 49        | 20.49               | 20.45                | 20.36              | 0-3                       | 0        |
|           |            | 100     | 0         | 20.46               | 20.50                | 20.43              | 0-3                       | 0        |

**[ LTE Band 30 Conducted Power \_ Grip Sensor on]**

LTE Band 30 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 18.68                | 18.72              | 18.67                | 0                         | 0        |   |
|           |            | 1       | 12        | 18.73                | 18.71              | 18.75                | 0                         | 0        |   |
|           |            | 1       | 24        | 18.69                | 18.71              | 18.75                | 0                         | 0        |   |
|           |            | 12      | 0         | 18.69                | 18.62              | 18.63                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 18.66                | 18.68              | 18.69                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 18.66                | 18.66              | 18.69                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 18.67                | 18.66              | 18.70                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 18.99                | 19.05              | 19.08                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 19.02                | 19.07              | 18.97                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 19.02                | 19.05              | 19.05                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 18.70                | 18.68              | 18.73                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 18.68                | 18.70              | 18.67                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 18.69                | 18.68              | 18.67                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 18.67                | 18.70              | 18.70                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 18.85                | 18.88              | 18.86                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 18.91                | 18.87              | 18.95                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 18.78                | 18.85              | 18.81                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 18.72                | 18.69              | 18.73                | 0-3                       | 0        |   |
|           |            |         | 12        | 6                    | 18.71              | 18.71                | 18.71                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 18.69              | 18.72                | 18.72                     | 0-3      | 0 |
|           |            |         | 25        | 0                    | 18.74              | 18.69                | 18.72                     | 0-3      | 0 |

LTE Band 30 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 27710 Ch. 2310 MHz  |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 18.62               | 0                         | 0        |
|           |            | 1       | 24        | 18.72               | 0                         | 0        |
|           |            | 1       | 49        | 18.69               | 0                         | 0        |
|           |            | 25      | 0         | 18.64               | 0-1                       | 0        |
|           |            | 25      | 12        | 18.64               | 0-1                       | 0        |
|           |            | 25      | 24        | 18.66               | 0-1                       | 0        |
|           |            | 50      | 0         | 18.62               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.92               | 0-1                       | 0        |
|           |            | 1       | 24        | 19.08               | 0-1                       | 0        |
|           |            | 1       | 49        | 18.87               | 0-1                       | 0        |
|           |            | 25      | 0         | 18.66               | 0-2                       | 0        |
|           |            | 25      | 12        | 18.71               | 0-2                       | 0        |
|           |            | 25      | 24        | 18.70               | 0-2                       | 0        |
|           | 64QAM      | 50      | 0         | 18.98               | 0-2                       | 0        |
|           |            | 1       | 0         | 18.82               | 0-2                       | 0        |
|           |            | 1       | 24        | 18.97               | 0-2                       | 0        |
|           |            | 1       | 49        | 18.85               | 0-2                       | 0        |
|           |            | 25      | 0         | 18.68               | 0-3                       | 0        |
|           |            | 25      | 12        | 18.73               | 0-3                       | 0        |
|           |            | 25      | 24        | 18.72               | 0-3                       | 0        |
|           |            | 50      | 0         | 18.77               | 0-3                       | 0        |

[ LTE TDD Band 38 Conducted Power \_ Grip Sensor on]

LTE Band 38\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 18.82               | 18.75              | 18.36                | 0                         | 0        |
|           |            | 1       | 12        | 18.83               | 18.74              | 18.35                | 0                         | 0        |
|           |            | 1       | 24        | 18.76               | 18.64              | 18.27                | 0                         | 0        |
|           |            | 12      | 0         | 18.81               | 18.75              | 18.31                | 0-1                       | 0        |
|           |            | 12      | 6         | 18.79               | 18.69              | 18.28                | 0-1                       | 0        |
|           |            | 12      | 11        | 18.78               | 18.69              | 18.31                | 0-1                       | 0        |
|           |            | 25      | 0         | 18.82               | 18.72              | 18.29                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.90               | 18.80              | 18.41                | 0-1                       | 0        |
|           |            | 1       | 12        | 18.92               | 18.84              | 18.42                | 0-1                       | 0        |
|           |            | 1       | 24        | 18.87               | 18.76              | 18.38                | 0-1                       | 0        |
|           |            | 12      | 0         | 18.78               | 18.73              | 18.30                | 0-2                       | 0        |
|           |            | 12      | 6         | 18.76               | 18.62              | 18.26                | 0-2                       | 0        |
|           |            | 12      | 11        | 18.79               | 18.60              | 18.24                | 0-2                       | 0        |
|           |            | 25      | 0         | 18.87               | 18.72              | 18.32                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.54               | 18.44              | 18.00                | 0-2                       | 0        |
|           |            | 1       | 12        | 18.54               | 18.43              | 18.02                | 0-2                       | 0        |
|           |            | 1       | 24        | 18.49               | 18.33              | 17.93                | 0-2                       | 0        |
|           |            | 12      | 0         | 18.89               | 18.76              | 18.39                | 0-3                       | 0        |
|           |            | 12      | 6         | 18.85               | 18.69              | 18.31                | 0-3                       | 0        |
|           |            | 12      | 11        | 18.84               | 18.69              | 18.32                | 0-3                       | 0        |
|           |            | 25      | 0         | 18.89               | 18.80              | 18.39                | 0-3                       | 0        |

LTE Band 38\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 37800 Ch. 2575 MHz  | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 18.76               | 18.73              | 18.31              | 0                         | 0        |
|           |            | 1       | 24        | 18.80               | 18.73              | 18.33              | 0                         | 0        |
|           |            | 1       | 49        | 18.77               | 18.53              | 18.27              | 0                         | 0        |
|           |            | 25      | 0         | 18.81               | 18.74              | 18.31              | 0-1                       | 0        |
|           |            | 25      | 12        | 18.81               | 18.71              | 18.32              | 0-1                       | 0        |
|           |            | 25      | 24        | 18.84               | 18.67              | 18.34              | 0-1                       | 0        |
|           |            | 50      | 0         | 18.85               | 18.73              | 18.34              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.91               | 18.87              | 18.42              | 0-1                       | 0        |
|           |            | 1       | 24        | 18.92               | 18.87              | 18.45              | 0-1                       | 0        |
|           |            | 1       | 49        | 18.86               | 18.66              | 18.34              | 0-1                       | 0        |
|           |            | 25      | 0         | 18.80               | 18.78              | 18.36              | 0-2                       | 0        |
|           |            | 25      | 12        | 18.86               | 18.75              | 18.33              | 0-2                       | 0        |
|           |            | 25      | 24        | 18.85               | 18.70              | 18.31              | 0-2                       | 0        |
|           |            | 50      | 0         | 18.86               | 18.78              | 18.37              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.49               | 18.46              | 18.00              | 0-2                       | 0        |
|           |            | 1       | 24        | 18.50               | 18.44              | 18.01              | 0-2                       | 0        |
|           |            | 1       | 49        | 18.48               | 18.27              | 17.90              | 0-2                       | 0        |
|           |            | 25      | 0         | 18.83               | 18.78              | 18.37              | 0-3                       | 0        |
|           |            | 25      | 12        | 18.90               | 18.79              | 18.38              | 0-3                       | 0        |
|           |            | 25      | 24        | 18.90               | 18.72              | 18.35              | 0-3                       | 0        |
|           |            | 50      | 0         | 18.86               | 18.74              | 18.35              | 0-3                       | 0        |

LTE Band 38\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 18.67                | 18.69              | 18.41                | 0                         | 0        |
|           |            | 1       | 36        | 18.75                | 18.69              | 18.32                | 0                         | 0        |
|           |            | 1       | 74        | 18.67                | 18.48              | 18.12                | 0                         | 0        |
|           |            | 36      | 0         | 18.76                | 18.69              | 18.37                | 0-1                       | 0        |
|           |            | 36      | 18        | 18.79                | 18.64              | 18.34                | 0-1                       | 0        |
|           |            | 36      | 39        | 18.76                | 18.55              | 18.30                | 0-1                       | 0        |
|           |            | 75      | 0         | 18.79                | 18.69              | 18.37                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.83                | 18.83              | 18.53                | 0-1                       | 0        |
|           |            | 1       | 36        | 18.87                | 18.79              | 18.44                | 0-1                       | 0        |
|           |            | 1       | 74        | 18.73                | 18.58              | 18.26                | 0-1                       | 0        |
|           |            | 36      | 0         | 18.75                | 18.67              | 18.38                | 0-2                       | 0        |
|           |            | 36      | 18        | 18.75                | 18.70              | 18.26                | 0-2                       | 0        |
|           |            | 36      | 39        | 18.82                | 18.58              | 18.28                | 0-2                       | 0        |
|           |            | 75      | 0         | 18.80                | 18.74              | 18.36                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.45                | 18.41              | 18.12                | 0-2                       | 0        |
|           |            | 1       | 36        | 18.47                | 18.39              | 18.01                | 0-2                       | 0        |
|           |            | 1       | 74        | 18.39                | 18.13              | 17.83                | 0-2                       | 0        |
|           |            | 36      | 0         | 18.85                | 18.75              | 18.35                | 0-3                       | 0        |
|           |            | 36      | 18        | 18.84                | 18.67              | 18.30                | 0-3                       | 0        |
|           |            | 36      | 39        | 18.83                | 18.60              | 18.29                | 0-3                       | 0        |
|           |            | 75      | 0         | 18.80                | 18.67              | 18.36                | 0-3                       | 0        |

LTE Band 38\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 38000 Ch. 2595 MHz  |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 18.68               | 0                         | 0        |
|           |            | 1       | 49        | 18.71               | 0                         | 0        |
|           |            | 1       | 99        | 18.42               | 0                         | 0        |
|           |            | 50      | 0         | 18.74               | 0-1                       | 0        |
|           |            | 50      | 25        | 18.75               | 0-1                       | 0        |
|           |            | 50      | 49        | 18.64               | 0-1                       | 0        |
|           |            | 100     | 0         | 18.69               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 18.77               | 0-1                       | 0        |
|           |            | 1       | 49        | 18.82               | 0-1                       | 0        |
|           |            | 1       | 99        | 18.49               | 0-1                       | 0        |
|           |            | 50      | 0         | 18.76               | 0-2                       | 0        |
|           |            | 50      | 25        | 18.76               | 0-2                       | 0        |
|           |            | 50      | 49        | 18.67               | 0-2                       | 0        |
|           |            | 100     | 0         | 18.71               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 18.40               | 0-2                       | 0        |
|           |            | 1       | 49        | 18.39               | 0-2                       | 0        |
|           |            | 1       | 99        | 18.06               | 0-2                       | 0        |
|           |            | 50      | 0         | 18.76               | 0-3                       | 0        |
|           |            | 50      | 25        | 18.74               | 0-3                       | 0        |
|           |            | 50      | 49        | 18.65               | 0-3                       | 0        |
|           |            | 100     | 0         | 18.70               | 0-3                       | 0        |

**[ LTE TDD Band 41 Conducted Power \_ Grip Sensor on]- Power Class 3**

LTE Band 41 \_ 5 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.02                | 19.77                | 20.43                | 20.51                | 20.72                | 0                        | 0        |
|            |            | 1       | 12        | 19.94                | 19.84                | 20.44                | 20.55                | 20.73                | 0                        | 0        |
|            |            | 1       | 24        | 19.79                | 19.80                | 20.40                | 20.47                | 20.67                | 0                        | 0        |
|            |            | 12      | 0         | 20.00                | 19.78                | 20.39                | 20.49                | 20.66                | 0-1                      | 0        |
|            |            | 12      | 6         | 19.91                | 19.77                | 20.40                | 20.48                | 20.63                | 0-1                      | 0        |
|            |            | 12      | 11        | 19.89                | 19.77                | 20.39                | 20.48                | 20.65                | 0-1                      | 0        |
|            | 16QAM      | 25      | 0         | 19.92                | 19.79                | 20.43                | 20.49                | 20.67                | 0-1                      | 0        |
|            |            | 1       | 0         | 20.13                | 19.87                | 20.52                | 20.59                | 20.76                | 0-1                      | 0        |
|            |            | 1       | 12        | 20.06                | 19.91                | 20.55                | 20.64                | 20.81                | 0-1                      | 0        |
|            |            | 1       | 24        | 19.94                | 19.93                | 20.54                | 20.60                | 20.82                | 0-1                      | 0        |
|            |            | 12      | 0         | 19.96                | 19.73                | 20.35                | 20.45                | 20.60                | 0-2                      | 0        |
|            |            | 12      | 6         | 19.84                | 19.74                | 20.35                | 20.42                | 20.61                | 0-2                      | 0        |
|            | 64QAM      | 12      | 11        | 19.81                | 19.71                | 20.32                | 20.44                | 20.61                | 0-2                      | 0        |
|            |            | 25      | 0         | 19.92                | 19.78                | 20.43                | 20.51                | 20.65                | 0-2                      | 0        |
|            |            | 1       | 0         | 19.63                | 19.37                | 20.04                | 20.15                | 20.32                | 0-2                      | 0        |
|            |            | 1       | 12        | 19.52                | 19.39                | 20.04                | 20.16                | 20.32                | 0-2                      | 0        |
|            |            | 1       | 24        | 19.39                | 19.40                | 20.00                | 20.13                | 20.29                | 0-2                      | 0        |
|            |            | 12      | 0         | 19.99                | 19.77                | 20.43                | 20.53                | 20.72                | 0-3                      | 0        |
|            |            | 12      | 6         | 19.91                | 19.76                | 20.42                | 20.54                | 20.68                | 0-3                      | 0        |
|            |            | 12      | 11        | 19.90                | 19.77                | 20.39                | 20.54                | 20.70                | 0-3                      | 0        |
|            |            | 25      | 0         | 19.97                | 19.84                | 20.48                | 20.56                | 20.73                | 0-3                      | 0        |

LTE Band 41 \_ 10 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch. 2501 MHz  | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 19.97               | 19.73              | 20.41              | 20.42              | 20.70              | 0                         | 0        |
|            |            | 1       | 24        | 19.80               | 19.81              | 20.45              | 20.52              | 20.70              | 0                         | 0        |
|            |            | 1       | 49        | 19.63               | 19.83              | 20.34              | 20.48              | 20.70              | 0                         | 0        |
|            |            | 25      | 0         | 19.85               | 19.78              | 20.40              | 20.48              | 20.65              | 0-1                       | 0        |
|            |            | 25      | 12        | 19.80               | 19.79              | 20.38              | 20.50              | 20.69              | 0-1                       | 0        |
|            |            | 25      | 24        | 19.73               | 19.82              | 20.38              | 20.50              | 20.68              | 0-1                       | 0        |
|            | 16QAM      | 50      | 0         | 19.83               | 19.82              | 20.39              | 20.52              | 20.69              | 0-1                       | 0        |
|            |            | 1       | 0         | 20.09               | 19.84              | 20.56              | 20.55              | 20.79              | 0-1                       | 0        |
|            |            | 1       | 24        | 19.93               | 19.97              | 20.58              | 20.63              | 20.81              | 0-1                       | 0        |
|            |            | 1       | 49        | 19.79               | 19.96              | 20.46              | 20.59              | 20.80              | 0-1                       | 0        |
|            |            | 25      | 0         | 19.84               | 19.78              | 20.40              | 20.51              | 20.66              | 0-2                       | 0        |
|            |            | 25      | 12        | 19.78               | 19.78              | 20.38              | 20.53              | 20.68              | 0-2                       | 0        |
|            | 64QAM      | 25      | 24        | 19.75               | 19.82              | 20.38              | 20.54              | 20.73              | 0-2                       | 0        |
|            |            | 50      | 0         | 19.85               | 19.88              | 20.42              | 20.56              | 20.72              | 0-2                       | 0        |
|            |            | 1       | 0         | 19.60               | 19.34              | 20.06              | 20.08              | 20.34              | 0-2                       | 0        |
|            |            | 1       | 24        | 19.42               | 19.42              | 20.09              | 20.17              | 20.33              | 0-2                       | 0        |
|            |            | 1       | 49        | 19.26               | 19.46              | 19.96              | 20.14              | 20.29              | 0-2                       | 0        |
|            |            | 25      | 0         | 19.90               | 19.85              | 20.47              | 20.55              | 20.70              | 0-3                       | 0        |
|            |            | 25      | 12        | 19.86               | 19.88              | 20.45              | 20.58              | 20.75              | 0-3                       | 0        |
|            |            | 25      | 24        | 19.80               | 19.86              | 20.45              | 20.55              | 20.75              | 0-3                       | 0        |
|            |            | 50      | 0         | 19.82               | 19.80              | 20.41              | 20.54              | 20.69              | 0-3                       | 0        |

LTE Band 41 \_ 15 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 19.91                | 19.68                | 20.36                | 20.32                | 20.63                | 0                         | 0        |
|            |            | 1       | 36        | 19.72                | 19.82                | 20.40                | 20.47                | 20.65                | 0                         | 0        |
|            |            | 1       | 74        | 19.50                | 19.82                | 20.25                | 20.39                | 20.60                | 0                         | 0        |
|            |            | 36      | 0         | 19.79                | 19.75                | 20.38                | 20.38                | 20.60                | 0-1                       | 0        |
|            |            | 36      | 18        | 19.70                | 19.79                | 20.35                | 20.44                | 20.66                | 0-1                       | 0        |
|            |            | 36      | 39        | 19.64                | 19.84                | 20.32                | 20.42                | 20.65                | 0-1                       | 0        |
|            |            | 75      | 0         | 19.71                | 19.80                | 20.41                | 20.44                | 20.70                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.08                | 19.82                | 20.49                | 20.44                | 20.72                | 0-1                       | 0        |
|            |            | 1       | 36        | 19.89                | 19.95                | 20.55                | 20.56                | 20.77                | 0-1                       | 0        |
|            |            | 1       | 74        | 19.65                | 19.98                | 20.41                | 20.53                | 20.76                | 0-1                       | 0        |
|            |            | 36      | 0         | 19.75                | 19.72                | 20.38                | 20.41                | 20.59                | 0-2                       | 0        |
|            |            | 36      | 18        | 19.69                | 19.74                | 20.32                | 20.40                | 20.60                | 0-2                       | 0        |
|            |            | 36      | 39        | 19.62                | 19.81                | 20.29                | 20.44                | 20.61                | 0-2                       | 0        |
|            |            | 75      | 0         | 19.74                | 19.79                | 20.44                | 20.47                | 20.70                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.57                | 19.32                | 20.02                | 19.99                | 20.27                | 0-2                       | 0        |
|            |            | 1       | 36        | 19.32                | 19.42                | 20.05                | 20.10                | 20.30                | 0-2                       | 0        |
|            |            | 1       | 74        | 19.14                | 19.47                | 19.90                | 20.07                | 20.27                | 0-2                       | 0        |
|            |            | 36      | 0         | 19.79                | 19.74                | 20.39                | 20.42                | 20.65                | 0-3                       | 0        |
| 36         |            | 18      | 19.69     | 19.77                | 20.36                | 20.47                | 20.61                | 0-3                  | 0                         |          |
| 36         |            | 39      | 19.64     | 19.84                | 20.31                | 20.45                | 20.67                | 0-3                  | 0                         |          |
| 75         |            | 0       | 19.73     | 19.81                | 20.41                | 20.48                | 20.70                | 0-3                  | 0                         |          |

LTE Band 41 \_ 20 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.89                | 19.65                | 20.32                | 20.20                | 20.57                | 0                         | 0        |
|            |            | 1       | 49        | 19.72                | 19.86                | 20.43                | 20.40                | 20.69                | 0                         | 0        |
|            |            | 1       | 99        | 19.39                | 19.85                | 20.17                | 20.33                | 20.55                | 0                         | 0        |
|            |            | 50      | 0         | 19.72                | 19.80                | 20.38                | 20.39                | 20.65                | 0-1                       | 0        |
|            |            | 50      | 25        | 19.68                | 19.85                | 20.39                | 20.41                | 20.65                | 0-1                       | 0        |
|            |            | 50      | 49        | 19.60                | 19.87                | 20.37                | 20.42                | 20.64                | 0-1                       | 0        |
|            |            | 100     | 0         | 19.68                | 19.86                | 20.35                | 20.42                | 20.68                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.03                | 19.76                | 20.44                | 20.33                | 20.67                | 0-1                       | 0        |
|            |            | 1       | 49        | 19.84                | 20.00                | 20.56                | 20.52                | 20.81                | 0-1                       | 0        |
|            |            | 1       | 99        | 19.54                | 19.97                | 20.31                | 20.47                | 20.68                | 0-1                       | 0        |
|            |            | 50      | 0         | 19.77                | 19.84                | 20.43                | 20.41                | 20.64                | 0-2                       | 0        |
|            |            | 50      | 25        | 19.72                | 19.87                | 20.42                | 20.46                | 20.67                | 0-2                       | 0        |
|            |            | 50      | 49        | 19.65                | 19.89                | 20.39                | 20.42                | 20.70                | 0-2                       | 0        |
|            |            | 100     | 0         | 19.70                | 19.87                | 20.37                | 20.45                | 20.71                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.50                | 19.26                | 19.96                | 19.85                | 20.24                | 0-2                       | 0        |
|            |            | 1       | 49        | 19.33                | 19.48                | 20.07                | 20.06                | 20.33                | 0-2                       | 0        |
|            |            | 1       | 99        | 19.00                | 19.47                | 19.82                | 19.98                | 20.19                | 0-2                       | 0        |
|            |            | 50      | 0         | 19.70                | 19.79                | 20.41                | 20.42                | 20.64                | 0-3                       | 0        |
| 50         |            | 25      | 19.69     | 19.84                | 20.42                | 20.41                | 20.65                | 0-3                  | 0                         |          |
| 50         |            | 49      | 19.59     | 19.90                | 20.38                | 20.39                | 20.68                | 0-3                  | 0                         |          |
| 100        |            | 0       | 19.68     | 19.85                | 20.37                | 20.41                | 20.71                | 0-3                  | 0                         |          |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[ LTE TDD Band 41 Conducted Power \_ Grip Sensor on] - Power Class 2**

LTE Band 41 \_ 5 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.14                | 19.89                | 20.55                | 20.59                | 20.78                | 0                        | 0        |
|            |            | 1       | 12        | 20.08                | 19.95                | 20.57                | 20.63                | 20.79                | 0                        | 0        |
|            |            | 1       | 24        | 19.96                | 19.94                | 20.56                | 20.59                | 20.77                | 0                        | 0        |
|            |            | 12      | 0         | 20.01                | 19.81                | 20.43                | 20.48                | 20.63                | 0-1                      | 0        |
|            |            | 12      | 6         | 19.95                | 19.80                | 20.44                | 20.48                | 20.61                | 0-1                      | 0        |
|            |            | 12      | 11        | 19.91                | 19.79                | 20.42                | 20.46                | 20.62                | 0-1                      | 0        |
|            | 16QAM      | 25      | 0         | 19.95                | 19.82                | 20.44                | 20.49                | 20.64                | 0-1                      | 0        |
|            |            | 1       | 0         | 20.35                | 20.09                | 20.74                | 20.73                | 20.91                | 0-1                      | 0        |
|            |            | 1       | 12        | 20.28                | 20.14                | 20.80                | 20.80                | 20.95                | 0-1                      | 0        |
|            |            | 1       | 24        | 20.17                | 20.16                | 20.74                | 20.76                | 20.96                | 0-1                      | 0        |
|            |            | 12      | 0         | 20.04                | 19.83                | 20.47                | 20.52                | 20.64                | 0-2                      | 0        |
|            |            | 12      | 6         | 19.95                | 19.82                | 20.46                | 20.49                | 20.63                | 0-2                      | 0        |
|            | 64QAM      | 12      | 11        | 19.95                | 19.83                | 20.45                | 20.48                | 20.64                | 0-2                      | 0        |
|            |            | 25      | 0         | 20.00                | 19.86                | 20.48                | 20.54                | 20.68                | 0-2                      | 0        |
|            |            | 1       | 0         | 20.07                | 19.81                | 20.47                | 20.49                | 20.67                | 0-2                      | 0        |
|            |            | 1       | 12        | 19.95                | 19.82                | 20.50                | 20.49                | 20.68                | 0-2                      | 0        |
|            |            | 1       | 24        | 19.83                | 19.84                | 20.45                | 20.46                | 20.67                | 0-2                      | 0        |
|            |            | 12      | 0         | 20.10                | 19.88                | 20.50                | 20.57                | 20.70                | 0-3                      | 0        |
|            | 12         | 6       | 19.99     | 19.87                | 20.50                | 20.54                | 20.67                | 0-3                  | 0                        |          |
|            | 12         | 11      | 19.98     | 19.85                | 20.48                | 20.53                | 20.68                | 0-3                  | 0                        |          |
|            | 25         | 0       | 20.03     | 19.89                | 20.52                | 20.55                | 20.73                | 0-3                  | 0                        |          |

LTE Band 41 \_ 10 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch. 2501 MHz  | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 20.11               | 19.84              | 20.52              | 20.46              | 20.73              | 0                         | 0        |
|            |            | 1       | 24        | 19.95               | 19.93              | 20.58              | 20.54              | 20.73              | 0                         | 0        |
|            |            | 1       | 49        | 19.79               | 19.97              | 20.45              | 20.52              | 20.71              | 0                         | 0        |
|            |            | 25      | 0         | 19.88               | 19.82              | 20.43              | 20.47              | 20.63              | 0-1                       | 0        |
|            |            | 25      | 12        | 19.82               | 19.83              | 20.40              | 20.48              | 20.63              | 0-1                       | 0        |
|            |            | 25      | 24        | 19.79               | 19.84              | 20.40              | 20.48              | 20.65              | 0-1                       | 0        |
|            | 16QAM      | 50      | 0         | 19.89               | 19.85              | 20.42              | 20.50              | 20.65              | 0-1                       | 0        |
|            |            | 1       | 0         | 20.34               | 20.07              | 20.76              | 20.70              | 20.93              | 0-1                       | 0        |
|            |            | 1       | 24        | 20.17               | 20.18              | 20.80              | 20.79              | 20.95              | 0-1                       | 0        |
|            |            | 1       | 49        | 20.02               | 20.21              | 20.68              | 20.74              | 20.93              | 0-1                       | 0        |
|            |            | 25      | 0         | 19.93               | 19.84              | 20.45              | 20.49              | 20.63              | 0-2                       | 0        |
|            |            | 25      | 12        | 19.88               | 19.86              | 20.42              | 20.51              | 20.65              | 0-2                       | 0        |
|            | 64QAM      | 25      | 24        | 19.84               | 19.90              | 20.44              | 20.50              | 20.68              | 0-2                       | 0        |
|            |            | 50      | 0         | 19.92               | 19.90              | 20.45              | 20.51              | 20.66              | 0-2                       | 0        |
|            |            | 1       | 0         | 20.03               | 19.75              | 20.45              | 20.40              | 20.66              | 0-2                       | 0        |
|            |            | 1       | 24        | 19.86               | 19.85              | 20.50              | 20.50              | 20.64              | 0-2                       | 0        |
|            |            | 1       | 49        | 19.70               | 19.88              | 20.37              | 20.46              | 20.62              | 0-2                       | 0        |
|            |            | 25      | 0         | 20.01               | 19.91              | 20.53              | 20.56              | 20.69              | 0-3                       | 0        |
|            |            | 25      | 12        | 19.93               | 19.91              | 20.50              | 20.55              | 20.73              | 0-3                       | 0        |
|            |            | 25      | 24        | 19.89               | 19.94              | 20.49              | 20.57              | 20.75              | 0-3                       | 0        |
|            |            | 50      | 0         | 19.89               | 19.85              | 20.41              | 20.49              | 20.63              | 0-3                       | 0        |

LTE Band 41 \_ 15 MHz Bandwidth- Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 20.02                | 19.77                | 20.48                | 20.42                | 20.67                | 0                         | 0        |
|            |            | 1       | 36        | 19.84                | 19.94                | 20.52                | 20.52                | 20.73                | 0                         | 0        |
|            |            | 1       | 74        | 19.62                | 19.95                | 20.35                | 20.46                | 20.67                | 0                         | 0        |
|            |            | 36      | 0         | 19.79                | 19.75                | 20.38                | 20.37                | 20.56                | 0-1                       | 0        |
|            |            | 36      | 18        | 19.70                | 19.79                | 20.35                | 20.42                | 20.60                | 0-1                       | 0        |
|            |            | 36      | 39        | 19.65                | 19.83                | 20.32                | 20.41                | 20.62                | 0-1                       | 0        |
|            |            | 75      | 0         | 19.74                | 19.82                | 20.40                | 20.44                | 20.62                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.28                | 20.05                | 20.68                | 20.58                | 20.87                | 0-1                       | 0        |
|            |            | 1       | 36        | 20.09                | 20.14                | 20.75                | 20.72                | 20.89                | 0-1                       | 0        |
|            |            | 1       | 74        | 19.86                | 20.18                | 20.58                | 20.67                | 20.89                | 0-1                       | 0        |
|            |            | 36      | 0         | 19.81                | 19.76                | 20.40                | 20.38                | 20.58                | 0-2                       | 0        |
|            |            | 36      | 18        | 19.73                | 19.81                | 20.36                | 20.42                | 20.58                | 0-2                       | 0        |
|            |            | 36      | 39        | 19.66                | 19.84                | 20.33                | 20.42                | 20.61                | 0-2                       | 0        |
|            |            | 75      | 0         | 19.77                | 19.84                | 20.44                | 20.45                | 20.64                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.96                | 19.73                | 20.40                | 20.32                | 20.59                | 0-2                       | 0        |
|            |            | 1       | 36        | 19.78                | 19.82                | 20.43                | 20.43                | 20.63                | 0-2                       | 0        |
|            |            | 1       | 74        | 19.55                | 19.87                | 20.28                | 20.39                | 20.61                | 0-2                       | 0        |
|            |            | 36      | 0         | 19.83                | 19.77                | 20.41                | 20.37                | 20.60                | 0-3                       | 0        |
| 36         |            | 18      | 19.73     | 19.80                | 20.37                | 20.41                | 20.64                | 0-3                  | 0                         |          |
| 36         |            | 39      | 19.68     | 19.86                | 20.34                | 20.40                | 20.63                | 0-3                  | 0                         |          |
| 75         |            | 0       | 19.76     | 19.83                | 20.43                | 20.44                | 20.64                | 0-3                  | 0                         |          |

LTE Band 41 \_ 20 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | Reduced Power [dBm] | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.99               | 19.74                | 20.40                | 20.30                | 20.66                | 0                         | 0        |
|            |            | 1       | 49        | 19.80               | 19.95                | 20.51                | 20.51                | 20.76                | 0                         | 0        |
|            |            | 1       | 99        | 19.50               | 19.94                | 20.26                | 20.43                | 20.62                | 0                         | 0        |
|            |            | 50      | 0         | 19.74               | 19.79                | 20.39                | 20.36                | 20.63                | 0-1                       | 0        |
|            |            | 50      | 25        | 19.69               | 19.85                | 20.38                | 20.44                | 20.67                | 0-1                       | 0        |
|            |            | 50      | 49        | 19.64               | 19.87                | 20.34                | 20.39                | 20.64                | 0-1                       | 0        |
|            |            | 100     | 0         | 19.69               | 19.86                | 20.35                | 20.42                | 20.66                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.22               | 19.97                | 20.63                | 20.51                | 20.83                | 0-1                       | 0        |
|            |            | 1       | 49        | 20.03               | 20.21                | 20.75                | 20.73                | 20.97                | 0-1                       | 0        |
|            |            | 1       | 99        | 19.73               | 20.18                | 20.49                | 20.61                | 20.83                | 0-1                       | 0        |
|            |            | 50      | 0         | 19.78               | 19.84                | 20.43                | 20.43                | 20.66                | 0-2                       | 0        |
|            |            | 50      | 25        | 19.72               | 19.89                | 20.43                | 20.47                | 20.67                | 0-2                       | 0        |
|            |            | 50      | 49        | 19.66               | 19.92                | 20.39                | 20.45                | 20.69                | 0-2                       | 0        |
|            |            | 100     | 0         | 19.73               | 19.89                | 20.39                | 20.45                | 20.70                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.91               | 19.63                | 20.32                | 20.21                | 20.58                | 0-2                       | 0        |
|            |            | 1       | 49        | 19.73               | 19.86                | 20.44                | 20.43                | 20.66                | 0-2                       | 0        |
|            |            | 1       | 99        | 19.40               | 19.85                | 20.18                | 20.32                | 20.54                | 0-2                       | 0        |
|            |            | 50      | 0         | 19.74               | 19.80                | 20.39                | 20.41                | 20.62                | 0-3                       | 0        |
| 50         |            | 25      | 19.69     | 19.84               | 20.38                | 20.43                | 20.65                | 0-3                  | 0                         |          |
| 50         |            | 49      | 19.63     | 19.87               | 20.35                | 20.42                | 20.64                | 0-3                  | 0                         |          |
| 100        |            | 0       | 19.72     | 19.86               | 20.37                | 20.42                | 20.68                | 0-3                  | 0                         |          |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.



**[ LTE Band 66 Conducted Power \_ Grip Sensor on]**

LTE Band 66 \_ 1.4 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131979Ch. 1710.7 MHz | 132322 Ch. 1745 MHz | 132665 Ch. 1779.3 MHz |                           |          |
| 1.4 MHz   | QPSK       | 1       | 0         | 19.60                | 20.58               | 20.64                 | 0                         | 0        |
|           |            | 1       | 3         | 19.60                | 20.64               | 20.64                 | 0                         | 0        |
|           |            | 1       | 5         | 19.63                | 20.64               | 20.63                 | 0                         | 0        |
|           |            | 3       | 0         | 19.62                | 20.56               | 20.66                 | 0                         | 0        |
|           |            | 3       | 1         | 19.60                | 20.60               | 20.67                 | 0                         | 0        |
|           |            | 3       | 3         | 19.61                | 20.65               | 20.63                 | 0                         | 0        |
|           |            | 6       | 0         | 19.59                | 20.62               | 20.67                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.82                | 20.80               | 20.84                 | 0-1                       | 0        |
|           |            | 1       | 3         | 19.93                | 20.89               | 20.89                 | 0-1                       | 0        |
|           |            | 1       | 5         | 19.91                | 20.86               | 20.85                 | 0-1                       | 0        |
|           |            | 3       | 0         | 19.63                | 20.53               | 20.67                 | 0-1                       | 0        |
|           |            | 3       | 1         | 19.62                | 20.55               | 20.62                 | 0-1                       | 0        |
|           |            | 3       | 3         | 19.61                | 20.66               | 20.68                 | 0-1                       | 0        |
|           |            | 6       | 0         | 19.69                | 20.69               | 20.78                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.78                | 20.75               | 20.85                 | 0-2                       | 0        |
|           |            | 1       | 3         | 19.71                | 20.73               | 20.82                 | 0-2                       | 0        |
|           |            | 1       | 5         | 19.74                | 20.73               | 20.85                 | 0-2                       | 0        |
|           |            | 3       | 0         | 19.70                | 20.69               | 20.77                 | 0-2                       | 0        |
|           |            | 3       | 1         | 19.71                | 20.71               | 20.80                 | 0-2                       | 0        |
|           |            | 3       | 3         | 19.76                | 20.71               | 20.80                 | 0-2                       | 0        |
| 6         |            | 0       | 19.58     | 20.61                | 20.66               | 0-3                   | 0                         |          |

LTE Band 66 \_ 3 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131987 Ch. 1711.5 MHz | 132322 Ch. 1745 MHz | 132657 Ch. 1778.5 MHz |                           |          |
| 3 MHz     | QPSK       | 1       | 0         | 19.59                 | 20.53               | 20.65                 | 0                         | 0        |
|           |            | 1       | 7         | 19.62                 | 20.65               | 20.63                 | 0                         | 0        |
|           |            | 1       | 14        | 19.58                 | 20.59               | 20.63                 | 0                         | 0        |
|           |            | 8       | 0         | 19.59                 | 20.57               | 20.62                 | 0-1                       | 0        |
|           |            | 8       | 3         | 19.62                 | 20.56               | 20.67                 | 0-1                       | 0        |
|           |            | 8       | 7         | 19.62                 | 20.61               | 20.65                 | 0-1                       | 0        |
|           |            | 15      | 0         | 19.65                 | 20.57               | 20.66                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.83                 | 20.83               | 20.98                 | 0-1                       | 0        |
|           |            | 1       | 7         | 19.96                 | 20.97               | 20.94                 | 0-1                       | 0        |
|           |            | 1       | 14        | 19.88                 | 20.81               | 20.97                 | 0-1                       | 0        |
|           |            | 8       | 0         | 19.65                 | 20.61               | 20.74                 | 0-2                       | 0        |
|           |            | 8       | 3         | 19.71                 | 20.65               | 20.72                 | 0-2                       | 0        |
|           |            | 8       | 7         | 19.72                 | 20.67               | 20.74                 | 0-2                       | 0        |
|           |            | 15      | 0         | 19.69                 | 20.63               | 20.69                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.69                 | 20.66               | 20.78                 | 0-2                       | 0        |
|           |            | 1       | 7         | 19.78                 | 20.80               | 20.88                 | 0-2                       | 0        |
|           |            | 1       | 14        | 19.85                 | 20.68               | 20.79                 | 0-2                       | 0        |
|           |            | 8       | 0         | 19.65                 | 20.61               | 20.72                 | 0-3                       | 0        |
|           |            | 8       | 3         | 19.67                 | 20.65               | 20.75                 | 0-3                       | 0        |
|           |            | 8       | 7         | 19.69                 | 20.68               | 20.69                 | 0-3                       | 0        |
|           |            | 15      | 0         | 19.66                 | 20.62               | 20.65                 | 0-3                       | 0        |

LTE Band 66 \_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                    |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|--------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 131997 Ch. 1712.5 MHz | 132322Ch. 1745 MHz | 132647 Ch. 1777.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 19.60                 | 20.60              | 20.63                 | 0                         | 0        |
|           |            | 1       | 12        | 19.73                 | 20.65              | 20.70                 | 0                         | 0        |
|           |            | 1       | 24        | 19.74                 | 20.65              | 20.70                 | 0                         | 0        |
|           |            | 12      | 0         | 19.59                 | 20.62              | 20.72                 | 0-1                       | 0        |
|           |            | 12      | 6         | 19.69                 | 20.62              | 20.66                 | 0-1                       | 0        |
|           |            | 12      | 11        | 19.71                 | 20.66              | 20.66                 | 0-1                       | 0        |
|           |            | 25      | 0         | 19.71                 | 20.62              | 20.67                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.94                 | 20.72              | 20.83                 | 0-1                       | 0        |
|           |            | 1       | 12        | 19.97                 | 20.84              | 21.00                 | 0-1                       | 0        |
|           |            | 1       | 24        | 20.01                 | 20.86              | 20.97                 | 0-1                       | 0        |
|           |            | 12      | 0         | 19.60                 | 20.60              | 20.71                 | 0-2                       | 0        |
|           |            | 12      | 6         | 19.67                 | 20.63              | 20.67                 | 0-2                       | 0        |
|           |            | 12      | 11        | 19.70                 | 20.61              | 20.67                 | 0-2                       | 0        |
|           |            | 25      | 0         | 19.70                 | 20.64              | 20.68                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.77                 | 20.78              | 20.75                 | 0-2                       | 0        |
|           |            | 1       | 12        | 19.82                 | 20.81              | 20.83                 | 0-2                       | 0        |
|           |            | 1       | 24        | 19.86                 | 20.81              | 20.86                 | 0-2                       | 0        |
|           |            | 12      | 0         | 19.63                 | 20.59              | 20.71                 | 0-3                       | 0        |
|           |            | 12      | 6         | 19.68                 | 20.67              | 20.70                 | 0-3                       | 0        |
|           |            | 12      | 11        | 19.74                 | 20.63              | 20.70                 | 0-3                       | 0        |
| 25        |            | 0       | 19.70     | 20.65                 | 20.68              | 0-3                   | 0                         |          |

LTE Band 66 \_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132022 Ch. 1715 MHz | 132322 Ch. 1745 MHz | 132622 Ch. 1775 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 19.59               | 20.50               | 20.59               | 0                         | 0        |
|           |            | 1       | 24        | 19.74               | 20.67               | 20.64               | 0                         | 0        |
|           |            | 1       | 49        | 19.83               | 20.68               | 20.64               | 0                         | 0        |
|           |            | 25      | 0         | 19.56               | 20.54               | 20.69               | 0-1                       | 0        |
|           |            | 25      | 12        | 19.74               | 20.63               | 20.68               | 0-1                       | 0        |
|           |            | 25      | 24        | 19.87               | 20.64               | 20.61               | 0-1                       | 0        |
|           |            | 50      | 0         | 19.73               | 20.66               | 20.69               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.85               | 20.69               | 20.92               | 0-1                       | 0        |
|           |            | 1       | 24        | 19.94               | 20.84               | 20.90               | 0-1                       | 0        |
|           |            | 1       | 49        | 20.04               | 21.02               | 20.85               | 0-1                       | 0        |
|           |            | 25      | 0         | 19.59               | 20.55               | 20.68               | 0-2                       | 0        |
|           |            | 25      | 12        | 19.73               | 20.64               | 20.66               | 0-2                       | 0        |
|           |            | 25      | 24        | 19.86               | 20.70               | 20.62               | 0-2                       | 0        |
|           |            | 50      | 0         | 19.71               | 20.65               | 20.65               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.73               | 20.63               | 20.77               | 0-2                       | 0        |
|           |            | 1       | 24        | 19.92               | 20.76               | 20.77               | 0-2                       | 0        |
|           |            | 1       | 49        | 20.00               | 20.93               | 20.78               | 0-2                       | 0        |
|           |            | 25      | 0         | 19.59               | 20.50               | 20.69               | 0-3                       | 0        |
|           |            | 25      | 12        | 19.76               | 20.65               | 20.72               | 0-3                       | 0        |
|           |            | 25      | 24        | 19.92               | 20.68               | 20.62               | 0-3                       | 0        |
| 50        |            | 0       | 19.75     | 20.64               | 20.67               | 0-3                 | 0                         |          |

LTE Band 66 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                     |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|-----------------------|---------------------|-----------------------|---------------------------|----------|
|           |            |         |           | 132047 Ch. 1717.5 MHz | 132322 Ch. 1745 MHz | 132597 Ch. 1772.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 19.53                 | 20.33               | 20.52                 | 0                         | 0        |
|           |            | 1       | 36        | 19.79                 | 20.61               | 20.58                 | 0                         | 0        |
|           |            | 1       | 74        | 19.93                 | 20.65               | 20.60                 | 0                         | 0        |
|           |            | 36      | 0         | 19.59                 | 20.47               | 20.61                 | 0-1                       | 0        |
|           |            | 36      | 18        | 19.73                 | 20.60               | 20.63                 | 0-1                       | 0        |
|           |            | 36      | 39        | 19.87                 | 20.65               | 20.58                 | 0-1                       | 0        |
|           |            | 75      | 0         | 19.78                 | 20.56               | 20.63                 | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.90                 | 20.74               | 20.80                 | 0-1                       | 0        |
|           |            | 1       | 36        | 20.06                 | 20.98               | 20.92                 | 0-1                       | 0        |
|           |            | 1       | 74        | 20.25                 | 20.98               | 20.96                 | 0-1                       | 0        |
|           |            | 36      | 0         | 19.63                 | 20.48               | 20.54                 | 0-2                       | 0        |
|           |            | 36      | 18        | 19.76                 | 20.57               | 20.64                 | 0-2                       | 0        |
|           |            | 36      | 39        | 19.93                 | 20.73               | 20.58                 | 0-2                       | 0        |
|           |            | 75      | 0         | 19.71                 | 20.56               | 20.59                 | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.77                 | 20.47               | 20.64                 | 0-2                       | 0        |
|           |            | 1       | 36        | 20.04                 | 20.81               | 20.81                 | 0-2                       | 0        |
|           |            | 1       | 74        | 20.12                 | 20.82               | 20.73                 | 0-2                       | 0        |
|           |            | 36      | 0         | 19.62                 | 20.50               | 20.63                 | 0-3                       | 0        |
|           |            | 36      | 18        | 19.83                 | 20.59               | 20.63                 | 0-3                       | 0        |
|           |            | 36      | 39        | 19.93                 | 20.77               | 20.63                 | 0-3                       | 0        |
|           |            | 75      | 0         | 19.77                 | 20.61               | 20.63                 | 0-3                       | 0        |

LTE Band 66 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                     |                     | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------|---------------------|---------------------------|----------|
|           |            |         |           | 132072 Ch. 1720 MHz | 132322 Ch. 1745 MHz | 132572 Ch. 1770 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 19.51               | 20.22               | 20.52               | 0                         | 0        |
|           |            | 1       | 49        | 19.88               | 20.59               | 20.61               | 0                         | 0        |
|           |            | 1       | 99        | 19.98               | 20.62               | 20.52               | 0                         | 0        |
|           |            | 50      | 0         | 19.59               | 20.42               | 20.62               | 0-1                       | 0        |
|           |            | 50      | 25        | 19.89               | 20.68               | 20.61               | 0-1                       | 0        |
|           |            | 50      | 49        | 19.92               | 20.64               | 20.58               | 0-1                       | 0        |
|           |            | 100     | 0         | 19.73               | 20.53               | 20.62               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 19.76               | 20.44               | 20.82               | 0-1                       | 0        |
|           |            | 1       | 49        | 20.20               | 20.83               | 20.78               | 0-1                       | 0        |
|           |            | 1       | 99        | 20.28               | 20.92               | 20.88               | 0-1                       | 0        |
|           |            | 50      | 0         | 19.57               | 20.40               | 20.61               | 0-2                       | 0        |
|           |            | 50      | 25        | 19.90               | 20.62               | 20.64               | 0-2                       | 0        |
|           |            | 50      | 49        | 20.00               | 20.68               | 20.60               | 0-2                       | 0        |
|           |            | 100     | 0         | 19.79               | 20.53               | 20.59               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 19.67               | 20.39               | 20.70               | 0-2                       | 0        |
|           |            | 1       | 49        | 19.99               | 20.79               | 20.77               | 0-2                       | 0        |
|           |            | 1       | 99        | 20.09               | 20.78               | 20.75               | 0-2                       | 0        |
|           |            | 50      | 0         | 19.55               | 20.35               | 20.58               | 0-3                       | 0        |
|           |            | 50      | 25        | 19.92               | 20.63               | 20.68               | 0-3                       | 0        |
|           |            | 50      | 49        | 19.97               | 20.63               | 20.54               | 0-3                       | 0        |
|           |            | 100     | 0         | 19.76               | 20.53               | 20.59               | 0-3                       | 0        |

### 11.4.4 LTE Reduced Conducted Power (Receiver ON)

#### [LTE Band 7 Conducted Power\_Receiver ON]

LTE Band 7\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20775 Ch. 2502.5 MHz | 21100 Ch. 2535 MHz | 21425 Ch. 2567.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.65                | 21.00              | 21.18                | 0                         | 0        |
|           |            | 1       | 12        | 20.71                | 21.00              | 21.23                | 0                         | 0        |
|           |            | 1       | 24        | 20.74                | 20.98              | 21.24                | 0                         | 0        |
|           |            | 12      | 0         | 20.70                | 21.04              | 21.25                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.72                | 21.00              | 21.26                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.70                | 20.96              | 21.25                | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 20.68                | 20.95              | 21.23                | 0-1                       | 0        |
|           |            | 1       | 0         | 20.91                | 21.25              | 21.43                | 0-1                       | 0        |
|           |            | 1       | 12        | 20.83                | 21.28              | 21.57                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.64                | 21.23              | 21.46                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.65                | 21.03              | 21.24                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.67                | 20.99              | 21.25                | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 20.71                | 20.99              | 21.26                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.75                | 21.03              | 21.27                | 0-2                       | 0        |
|           |            | 1       | 0         | 20.76                | 21.17              | 21.32                | 0-2                       | 0        |
|           |            | 1       | 12        | 20.80                | 21.14              | 21.46                | 0-2                       | 0        |
|           |            | 1       | 24        | 20.83                | 21.20              | 21.40                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.75                | 21.07              | 21.31                | 0-3                       | 0        |
|           | 64QAM      | 12      | 6         | 20.70                | 21.04              | 21.29                | 0-3                       | 0        |
|           |            | 12      | 11        | 20.73                | 20.99              | 21.29                | 0-3                       | 0        |
|           |            | 25      | 0         | 20.74                | 21.04              | 21.24                | 0-3                       | 0        |

LTE Band 7\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20800 Ch. 2505 MHz  | 21100 Ch. 2535 MHz | 21400 Ch. 2565 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.58               | 20.99              | 21.06              | 0                         | 0        |
|           |            | 1       | 24        | 20.75               | 21.03              | 21.17              | 0                         | 0        |
|           |            | 1       | 49        | 20.78               | 20.98              | 21.20              | 0                         | 0        |
|           |            | 25      | 0         | 20.72               | 21.06              | 21.13              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.79               | 20.99              | 21.16              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.79               | 20.99              | 21.22              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.80               | 21.01              | 21.19              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.87               | 21.24              | 21.33              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.99               | 21.35              | 21.49              | 0-1                       | 0        |
|           |            | 1       | 49        | 21.07               | 21.32              | 21.51              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.73               | 21.11              | 21.16              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.81               | 21.00              | 21.27              | 0-2                       | 0        |
|           |            | 25      | 24        | 20.83               | 20.99              | 21.27              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.80               | 21.03              | 21.20              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.74               | 21.16              | 21.27              | 0-2                       | 0        |
|           |            | 1       | 24        | 20.98               | 21.13              | 21.36              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.97               | 21.09              | 21.31              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.75               | 21.05              | 21.16              | 0-3                       | 0        |
|           |            | 25      | 12        | 20.76               | 21.01              | 21.24              | 0-3                       | 0        |
|           |            | 25      | 24        | 20.83               | 21.03              | 21.29              | 0-3                       | 0        |
|           |            | 50      | 0         | 20.78               | 21.02              | 21.24              | 0-3                       | 0        |

LTE Band 7 \_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 20825 Ch. 2507.5 MHz | 21100 Ch. 2535 MHz | 21375 Ch. 2562.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.56                | 20.94              | 20.86                | 0                         | 0        |
|           |            | 1       | 36        | 20.80                | 20.95              | 21.13                | 0                         | 0        |
|           |            | 1       | 74        | 20.83                | 20.91              | 21.12                | 0                         | 0        |
|           |            | 36      | 0         | 20.70                | 20.99              | 21.01                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.81                | 20.97              | 21.09                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.88                | 20.91              | 21.21                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.85                | 20.99              | 21.12                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.86                | 21.30              | 21.23                | 0-1                       | 0        |
|           |            | 1       | 36        | 21.05                | 21.17              | 21.40                | 0-1                       | 0        |
|           |            | 1       | 74        | 21.15                | 21.25              | 21.52                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.76                | 21.08              | 21.06                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.82                | 21.01              | 21.18                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.89                | 20.94              | 21.24                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.84                | 20.99              | 21.11                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.75                | 21.15              | 21.08                | 0-2                       | 0        |
|           |            | 1       | 36        | 20.97                | 21.20              | 21.40                | 0-2                       | 0        |
|           |            | 1       | 74        | 21.09                | 21.05              | 21.33                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.80                | 21.10              | 21.08                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.84                | 21.02              | 21.19                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.98                | 20.95              | 21.25                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.86                | 21.00              | 21.18                | 0-3                       | 0        |

LTE Band 7 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 20850 Ch. 2510 MHz  | 21100 Ch. 2535 MHz | 21350 Ch. 2560 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.60               | 20.93              | 20.98              | 0                         | 0        |
|           |            | 1       | 49        | 20.91               | 21.06              | 21.07              | 0                         | 0        |
|           |            | 1       | 99        | 20.96               | 20.86              | 21.06              | 0                         | 0        |
|           |            | 50      | 0         | 20.83               | 21.10              | 21.00              | 0-1                       | 0        |
|           |            | 50      | 25        | 20.90               | 21.05              | 21.11              | 0-1                       | 0        |
|           |            | 50      | 49        | 21.09               | 20.98              | 21.21              | 0-1                       | 0        |
|           |            | 100     | 0         | 20.95               | 21.05              | 21.06              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.85               | 21.19              | 21.25              | 0-1                       | 0        |
|           |            | 1       | 49        | 21.25               | 21.25              | 21.34              | 0-1                       | 0        |
|           |            | 1       | 99        | 21.21               | 21.15              | 21.40              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.83               | 21.11              | 21.02              | 0-2                       | 0        |
|           |            | 50      | 25        | 20.94               | 21.06              | 21.10              | 0-2                       | 0        |
|           |            | 50      | 49        | 21.07               | 20.96              | 21.21              | 0-2                       | 0        |
|           |            | 100     | 0         | 20.93               | 21.03              | 21.09              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.75               | 21.06              | 21.12              | 0-2                       | 0        |
|           |            | 1       | 49        | 21.10               | 21.19              | 21.19              | 0-2                       | 0        |
|           |            | 1       | 99        | 21.10               | 20.92              | 21.23              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.83               | 21.12              | 21.01              | 0-3                       | 0        |
|           |            | 50      | 25        | 20.92               | 21.01              | 21.09              | 0-3                       | 0        |
|           |            | 50      | 49        | 21.11               | 20.95              | 21.19              | 0-3                       | 0        |
|           |            | 100     | 0         | 20.94               | 21.03              | 21.08              | 0-3                       | 0        |

**[LTE Band 30 Conducted Power\_Receiver ON]**

LTE Band 30\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|---|
|           |            |         |           | 27685 Ch. 2307.5 MHz | 27710 Ch. 2310 MHz | 27735 Ch. 2312.5 MHz |                           |          |   |
| 5 MHz     | QPSK       | 1       | 0         | 20.80                | 20.87              | 20.91                | 0                         | 0        |   |
|           |            | 1       | 12        | 20.86                | 20.87              | 20.92                | 0                         | 0        |   |
|           |            | 1       | 24        | 20.91                | 20.87              | 20.91                | 0                         | 0        |   |
|           |            | 12      | 0         | 20.84                | 20.85              | 20.87                | 0-1                       | 0        |   |
|           |            | 12      | 6         | 20.81                | 20.83              | 20.85                | 0-1                       | 0        |   |
|           |            | 12      | 11        | 20.85                | 20.83              | 20.86                | 0-1                       | 0        |   |
|           | 16QAM      | 25      | 0         | 20.86                | 20.85              | 20.84                | 0-1                       | 0        |   |
|           |            | 1       | 0         | 21.12                | 21.20              | 21.08                | 0-1                       | 0        |   |
|           |            | 1       | 12        | 21.18                | 21.14              | 21.20                | 0-1                       | 0        |   |
|           |            | 1       | 24        | 21.06                | 21.08              | 21.24                | 0-1                       | 0        |   |
|           |            | 12      | 0         | 20.82                | 20.86              | 20.88                | 0-2                       | 0        |   |
|           |            | 12      | 6         | 20.83                | 20.84              | 20.87                | 0-2                       | 0        |   |
|           | 64QAM      | 12      | 11        | 20.82                | 20.83              | 20.82                | 0-2                       | 0        |   |
|           |            | 25      | 0         | 20.88                | 20.87              | 20.88                | 0-2                       | 0        |   |
|           |            | 1       | 0         | 20.96                | 21.08              | 20.95                | 0-2                       | 0        |   |
|           |            | 1       | 12        | 20.98                | 21.03              | 21.03                | 0-2                       | 0        |   |
|           |            | 1       | 24        | 21.03                | 21.04              | 20.99                | 0-2                       | 0        |   |
|           |            | 12      | 0         | 20.89                | 20.84              | 20.96                | 0-3                       | 0        |   |
|           |            |         | 12        | 6                    | 20.84              | 20.85                | 20.90                     | 0-3      | 0 |
|           |            |         | 12        | 11                   | 20.85              | 20.86                | 20.89                     | 0-3      | 0 |
|           |            |         | 25        | 0                    | 20.89              | 20.87                | 20.87                     | 0-3      | 0 |

LTE Band 30\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 27710 Ch. 2310 MHz  |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.82               | 0                         | 0        |
|           |            | 1       | 24        | 20.88               | 0                         | 0        |
|           |            | 1       | 49        | 20.85               | 0                         | 0        |
|           |            | 25      | 0         | 20.74               | 0-1                       | 0        |
|           |            | 25      | 12        | 20.84               | 0-1                       | 0        |
|           |            | 25      | 24        | 20.83               | 0-1                       | 0        |
|           |            | 50      | 0         | 20.83               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 21.06               | 0-1                       | 0        |
|           |            | 1       | 24        | 21.12               | 0-1                       | 0        |
|           |            | 1       | 49        | 21.07               | 0-1                       | 0        |
|           |            | 25      | 0         | 20.83               | 0-2                       | 0        |
|           |            | 25      | 12        | 20.90               | 0-2                       | 0        |
|           |            | 25      | 24        | 20.91               | 0-2                       | 0        |
|           | 64QAM      | 50      | 0         | 20.82               | 0-2                       | 0        |
|           |            | 1       | 0         | 20.97               | 0-2                       | 0        |
|           |            | 1       | 24        | 21.00               | 0-2                       | 0        |
|           |            | 1       | 49        | 21.04               | 0-2                       | 0        |
|           |            | 25      | 0         | 20.82               | 0-3                       | 0        |
|           |            | 25      | 12        | 20.83               | 0-3                       | 0        |
|           |            | 25      | 24        | 20.87               | 0-3                       | 0        |
|           |            |         | 50        | 0                   | 20.85                     | 0-3      |

**[LTE TDD Band 38 Conducted Power\_Receiver ON]**

LTE Band 38\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 3775 Ch. 2572.5 MHz | 38000 Ch. 2595 MHz | 38225 Ch. 2617.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 20.70               | 20.64              | 20.25                | 0                         | 0        |
|           |            | 1       | 12        | 20.73               | 20.66              | 20.28                | 0                         | 0        |
|           |            | 1       | 24        | 20.67               | 20.57              | 20.19                | 0                         | 0        |
|           |            | 12      | 0         | 20.73               | 20.65              | 20.19                | 0-1                       | 0        |
|           |            | 12      | 6         | 20.71               | 20.57              | 20.17                | 0-1                       | 0        |
|           |            | 12      | 11        | 20.71               | 20.57              | 20.18                | 0-1                       | 0        |
|           |            | 25      | 0         | 20.73               | 20.62              | 20.20                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.85               | 20.77              | 20.34                | 0-1                       | 0        |
|           |            | 1       | 12        | 20.82               | 20.77              | 20.35                | 0-1                       | 0        |
|           |            | 1       | 24        | 20.80               | 20.68              | 20.30                | 0-1                       | 0        |
|           |            | 12      | 0         | 20.72               | 20.60              | 20.18                | 0-2                       | 0        |
|           |            | 12      | 6         | 20.68               | 20.55              | 20.16                | 0-2                       | 0        |
|           |            | 12      | 11        | 20.67               | 20.53              | 20.16                | 0-2                       | 0        |
|           |            | 25      | 0         | 20.77               | 20.64              | 20.25                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.46               | 20.37              | 19.95                | 0-2                       | 0        |
|           |            | 1       | 12        | 20.46               | 20.34              | 19.94                | 0-2                       | 0        |
|           |            | 1       | 24        | 20.41               | 20.27              | 19.87                | 0-2                       | 0        |
|           |            | 12      | 0         | 20.80               | 20.70              | 20.29                | 0-3                       | 0        |
|           |            | 12      | 6         | 20.75               | 20.61              | 20.23                | 0-3                       | 0        |
|           |            | 12      | 11        | 20.75               | 20.59              | 20.23                | 0-3                       | 0        |
|           |            | 25      | 0         | 20.79               | 20.68              | 20.27                | 0-3                       | 0        |

LTE Band 38\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|--------------------|--------------------|---------------------------|----------|
|           |            |         |           | 37800 Ch. 2575 MHz  | 38000 Ch. 2595 MHz | 38200 Ch. 2615 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 20.68               | 20.65              | 20.25              | 0                         | 0        |
|           |            | 1       | 24        | 20.70               | 20.66              | 20.27              | 0                         | 0        |
|           |            | 1       | 49        | 20.65               | 20.47              | 20.14              | 0                         | 0        |
|           |            | 25      | 0         | 20.72               | 20.67              | 20.22              | 0-1                       | 0        |
|           |            | 25      | 12        | 20.73               | 20.61              | 20.23              | 0-1                       | 0        |
|           |            | 25      | 24        | 20.70               | 20.55              | 20.21              | 0-1                       | 0        |
|           |            | 50      | 0         | 20.78               | 20.63              | 20.26              | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.82               | 20.77              | 20.35              | 0-1                       | 0        |
|           |            | 1       | 24        | 20.84               | 20.79              | 20.38              | 0-1                       | 0        |
|           |            | 1       | 49        | 20.78               | 20.58              | 20.25              | 0-1                       | 0        |
|           |            | 25      | 0         | 20.76               | 20.71              | 20.26              | 0-2                       | 0        |
|           |            | 25      | 12        | 20.77               | 20.67              | 20.26              | 0-2                       | 0        |
|           |            | 25      | 24        | 20.74               | 20.60              | 20.24              | 0-2                       | 0        |
|           |            | 50      | 0         | 20.80               | 20.66              | 20.28              | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.41               | 20.38              | 19.93              | 0-2                       | 0        |
|           |            | 1       | 24        | 20.42               | 20.36              | 19.95              | 0-2                       | 0        |
|           |            | 1       | 49        | 20.38               | 20.15              | 19.83              | 0-2                       | 0        |
|           |            | 25      | 0         | 20.78               | 20.75              | 20.31              | 0-3                       | 0        |
|           |            | 25      | 12        | 20.83               | 20.70              | 20.32              | 0-3                       | 0        |
|           |            | 25      | 24        | 20.79               | 20.66              | 20.28              | 0-3                       | 0        |
|           |            | 50      | 0         | 20.77               | 20.65              | 20.29              | 0-3                       | 0        |

LTE Band 38\_ 15 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                    |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|--------------------|----------------------|---------------------------|----------|
|           |            |         |           | 37825 Ch. 2507.5 MHz | 38000 Ch. 2595 MHz | 38175 Ch. 2612.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 20.60                | 20.57              | 20.31                | 0                         | 0        |
|           |            | 1       | 36        | 20.68                | 20.62              | 20.26                | 0                         | 0        |
|           |            | 1       | 74        | 20.53                | 20.33              | 20.06                | 0                         | 0        |
|           |            | 36      | 0         | 20.74                | 20.63              | 20.27                | 0-1                       | 0        |
|           |            | 36      | 18        | 20.75                | 20.57              | 20.22                | 0-1                       | 0        |
|           |            | 36      | 39        | 20.65                | 20.49              | 20.19                | 0-1                       | 0        |
|           |            | 75      | 0         | 20.74                | 20.62              | 20.26                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.73                | 20.69              | 20.45                | 0-1                       | 0        |
|           |            | 1       | 36        | 20.78                | 20.71              | 20.34                | 0-1                       | 0        |
|           |            | 1       | 74        | 20.67                | 20.50              | 20.17                | 0-1                       | 0        |
|           |            | 36      | 0         | 20.72                | 20.62              | 20.28                | 0-2                       | 0        |
|           |            | 36      | 18        | 20.70                | 20.59              | 20.19                | 0-2                       | 0        |
|           |            | 36      | 39        | 20.70                | 20.49              | 20.18                | 0-2                       | 0        |
|           |            | 75      | 0         | 20.75                | 20.60              | 20.29                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.34                | 20.29              | 20.06                | 0-2                       | 0        |
|           |            | 1       | 36        | 20.40                | 20.30              | 19.95                | 0-2                       | 0        |
|           |            | 1       | 74        | 20.26                | 20.08              | 19.76                | 0-2                       | 0        |
|           |            | 36      | 0         | 20.71                | 20.68              | 20.27                | 0-3                       | 0        |
|           |            | 36      | 18        | 20.78                | 20.61              | 20.25                | 0-3                       | 0        |
|           |            | 36      | 39        | 20.74                | 20.50              | 20.20                | 0-3                       | 0        |
|           |            | 75      | 0         | 20.74                | 20.64              | 20.28                | 0-3                       | 0        |

LTE Band 38\_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|---------------------------|----------|
|           |            |         |           | 38000 Ch. 2595 MHz  |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 20.59               | 0                         | 0        |
|           |            | 1       | 49        | 20.63               | 0                         | 0        |
|           |            | 1       | 99        | 20.28               | 0                         | 0        |
|           |            | 50      | 0         | 20.69               | 0-1                       | 0        |
|           |            | 50      | 25        | 20.65               | 0-1                       | 0        |
|           |            | 50      | 49        | 20.51               | 0-1                       | 0        |
|           |            | 100     | 0         | 20.57               | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 20.72               | 0-1                       | 0        |
|           |            | 1       | 49        | 20.73               | 0-1                       | 0        |
|           |            | 1       | 99        | 20.40               | 0-1                       | 0        |
|           |            | 50      | 0         | 20.73               | 0-2                       | 0        |
|           |            | 50      | 25        | 20.69               | 0-2                       | 0        |
|           |            | 50      | 49        | 20.56               | 0-2                       | 0        |
|           |            | 100     | 0         | 20.60               | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 20.31               | 0-2                       | 0        |
|           |            | 1       | 49        | 20.32               | 0-2                       | 0        |
|           |            | 1       | 99        | 19.97               | 0-2                       | 0        |
|           |            | 50      | 0         | 20.70               | 0-3                       | 0        |
|           |            | 50      | 25        | 20.66               | 0-3                       | 0        |
|           |            | 50      | 49        | 20.51               | 0-3                       | 0        |
|           |            | 100     | 0         | 20.58               | 0-3                       | 0        |



**[LTE TDD Band 41 Conducted Power\_Receiver ON] - Power Class 3**

LTE Band 41\_ 5 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch. 2498.5 MHz | 40148 Ch. 2545.8 MHz | 40620 Ch. 2593.0 MHz | 41093 Ch. 2640.3 MHz | 41565 Ch. 2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.02                | 19.76                | 20.53                | 20.46                | 20.55                | 0                        | 0        |
|            |            | 1       | 12        | 19.97                | 19.82                | 20.53                | 20.50                | 20.55                | 0                        | 0        |
|            |            | 1       | 24        | 19.77                | 19.79                | 20.50                | 20.42                | 20.54                | 0                        | 0        |
|            |            | 12      | 0         | 19.96                | 19.77                | 20.51                | 20.45                | 20.48                | 0-1                      | 0        |
|            |            | 12      | 6         | 19.89                | 19.74                | 20.52                | 20.44                | 20.48                | 0-1                      | 0        |
|            |            | 12      | 11        | 19.87                | 19.75                | 20.48                | 20.43                | 20.48                | 0-1                      | 0        |
|            |            | 25      | 0         | 19.89                | 19.78                | 20.53                | 20.45                | 20.49                | 0-1                      | 0        |
|            | 16QAM      | 1       | 0         | 20.12                | 19.85                | 20.63                | 20.55                | 20.63                | 0-1                      | 0        |
|            |            | 1       | 12        | 20.04                | 19.89                | 20.66                | 20.58                | 20.63                | 0-1                      | 0        |
|            |            | 1       | 24        | 19.91                | 19.91                | 20.64                | 20.57                | 20.67                | 0-1                      | 0        |
|            |            | 12      | 0         | 19.92                | 19.72                | 20.48                | 20.41                | 20.44                | 0-2                      | 0        |
|            |            | 12      | 6         | 19.83                | 19.72                | 20.46                | 20.39                | 20.45                | 0-2                      | 0        |
|            |            | 12      | 11        | 19.80                | 19.70                | 20.42                | 20.40                | 20.43                | 0-2                      | 0        |
|            |            | 25      | 0         | 19.90                | 19.77                | 20.51                | 20.48                | 20.51                | 0-2                      | 0        |
|            | 64QAM      | 1       | 0         | 19.62                | 19.36                | 20.14                | 20.10                | 20.16                | 0-2                      | 0        |
|            |            | 1       | 12        | 19.50                | 19.37                | 20.16                | 20.11                | 20.15                | 0-2                      | 0        |
|            |            | 1       | 24        | 19.39                | 19.39                | 20.11                | 20.08                | 20.13                | 0-2                      | 0        |
|            |            | 12      | 0         | 19.97                | 19.75                | 20.54                | 20.50                | 20.55                | 0-3                      | 0        |
|            |            | 12      | 6         | 19.90                | 19.74                | 20.51                | 20.48                | 20.50                | 0-3                      | 0        |
|            |            | 12      | 11        | 19.88                | 19.75                | 20.48                | 20.48                | 20.51                | 0-3                      | 0        |
|            |            | 25      | 0         | 19.94                | 19.84                | 20.58                | 20.52                | 20.58                | 0-3                      | 0        |

LTE Band 41\_ 10 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                    |                    |                    |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|---------------------|--------------------|--------------------|--------------------|--------------------|---------------------------|----------|
|            |            |         |           | 39700 Ch. 2501 MHz  | 40160 Ch. 2547 MHz | 40620 Ch. 2593 MHz | 41080 Ch. 2639 MHz | 41540 Ch. 2685 MHz |                           |          |
| 10 MHz     | QPSK       | 1       | 0         | 19.97               | 19.73              | 20.52              | 20.37              | 20.53              | 0                         | 0        |
|            |            | 1       | 24        | 19.79               | 19.79              | 20.56              | 20.46              | 20.54              | 0                         | 0        |
|            |            | 1       | 49        | 19.63               | 19.84              | 20.44              | 20.43              | 20.50              | 0                         | 0        |
|            |            | 25      | 0         | 19.84               | 19.77              | 20.52              | 20.43              | 20.50              | 0-1                       | 0        |
|            |            | 25      | 12        | 19.78               | 19.76              | 20.49              | 20.45              | 20.50              | 0-1                       | 0        |
|            |            | 25      | 24        | 19.73               | 19.82              | 20.47              | 20.46              | 20.51              | 0-1                       | 0        |
|            |            | 50      | 0         | 19.82               | 19.82              | 20.49              | 20.48              | 20.52              | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.09               | 19.84              | 20.64              | 20.51              | 20.63              | 0-1                       | 0        |
|            |            | 1       | 24        | 19.93               | 19.96              | 20.68              | 20.58              | 20.64              | 0-1                       | 0        |
|            |            | 1       | 49        | 19.78               | 19.97              | 20.56              | 20.56              | 20.62              | 0-1                       | 0        |
|            |            | 25      | 0         | 19.84               | 19.78              | 20.51              | 20.47              | 20.48              | 0-2                       | 0        |
|            |            | 25      | 12        | 19.77               | 19.78              | 20.50              | 20.46              | 20.50              | 0-2                       | 0        |
|            |            | 25      | 24        | 19.75               | 19.79              | 20.48              | 20.48              | 20.51              | 0-2                       | 0        |
|            |            | 50      | 0         | 19.83               | 19.83              | 20.53              | 20.50              | 20.54              | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.58               | 19.34              | 20.17              | 20.04              | 20.17              | 0-2                       | 0        |
|            |            | 1       | 24        | 19.41               | 19.42              | 20.19              | 20.11              | 20.13              | 0-2                       | 0        |
|            |            | 1       | 49        | 19.25               | 19.46              | 20.08              | 20.08              | 20.12              | 0-2                       | 0        |
|            |            | 25      | 0         | 19.92               | 19.84              | 20.57              | 20.52              | 20.53              | 0-3                       | 0        |
|            |            | 25      | 12        | 19.84               | 19.85              | 20.55              | 20.52              | 20.58              | 0-3                       | 0        |
|            |            | 25      | 24        | 19.81               | 19.90              | 20.55              | 20.53              | 20.60              | 0-3                       | 0        |
|            |            | 50      | 0         | 19.80               | 19.80              | 20.51              | 20.50              | 20.50              | 0-3                       | 0        |

LTE Band 41 \_ 15 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch. 2503.5 MHz | 40173 Ch. 2548.3 MHz | 40620 Ch. 2593.0 MHz | 41068 Ch. 2637.8 MHz | 41515 Ch. 2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 19.92                | 19.68                | 20.48                | 20.26                | 20.47                | 0                         | 0        |
|            |            | 1       | 36        | 19.71                | 19.81                | 20.49                | 20.42                | 20.45                | 0                         | 0        |
|            |            | 1       | 74        | 19.48                | 19.82                | 20.36                | 20.33                | 20.43                | 0                         | 0        |
|            |            | 36      | 0         | 19.76                | 19.75                | 20.49                | 20.36                | 20.44                | 0-1                       | 0        |
|            |            | 36      | 18        | 19.68                | 19.76                | 20.46                | 20.39                | 20.47                | 0-1                       | 0        |
|            |            | 36      | 39        | 19.62                | 19.84                | 20.42                | 20.37                | 20.47                | 0-1                       | 0        |
|            |            | 75      | 0         | 19.71                | 19.78                | 20.51                | 20.41                | 20.49                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.06                | 19.83                | 20.63                | 20.41                | 20.56                | 0-1                       | 0        |
|            |            | 1       | 36        | 19.87                | 19.94                | 20.67                | 20.54                | 20.58                | 0-1                       | 0        |
|            |            | 1       | 74        | 19.63                | 19.98                | 20.53                | 20.51                | 20.61                | 0-1                       | 0        |
|            |            | 36      | 0         | 19.75                | 19.70                | 20.48                | 20.36                | 20.41                | 0-2                       | 0        |
|            |            | 36      | 18        | 19.67                | 19.74                | 20.43                | 20.40                | 20.43                | 0-2                       | 0        |
|            |            | 36      | 39        | 19.62                | 19.81                | 20.41                | 20.38                | 20.44                | 0-2                       | 0        |
|            |            | 75      | 0         | 19.71                | 19.80                | 20.53                | 20.42                | 20.51                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.55                | 19.32                | 20.13                | 19.93                | 20.11                | 0-2                       | 0        |
|            |            | 1       | 36        | 19.33                | 19.41                | 20.15                | 20.09                | 20.13                | 0-2                       | 0        |
|            |            | 1       | 74        | 19.11                | 19.47                | 20.01                | 20.02                | 20.10                | 0-2                       | 0        |
|            |            | 36      | 0         | 19.75                | 19.74                | 20.51                | 20.39                | 20.45                | 0-3                       | 0        |
|            |            | 36      | 18        | 19.68                | 19.76                | 20.46                | 20.40                | 20.44                | 0-3                       | 0        |
|            |            | 36      | 39        | 19.62                | 19.84                | 20.43                | 20.37                | 20.45                | 0-3                       | 0        |
|            |            | 75      | 0         | 19.74                | 19.77                | 20.52                | 20.43                | 20.53                | 0-3                       | 0        |

LTE Band 41 \_ 20 MHz Bandwidth

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch. 2506.0 MHz | 40185 Ch. 2549.5 MHz | 40620 Ch. 2593.0 MHz | 41055 Ch. 2636.5 MHz | 41490 Ch. 2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.89                | 19.64                | 20.54                | 20.12                | 20.42                | 0                         | 0        |
|            |            | 1       | 49        | 19.69                | 19.87                | 20.52                | 20.35                | 20.53                | 0                         | 0        |
|            |            | 1       | 99        | 19.39                | 19.84                | 20.30                | 20.26                | 20.39                | 0                         | 0        |
|            |            | 50      | 0         | 19.68                | 19.79                | 20.54                | 20.36                | 20.49                | 0-1                       | 0        |
|            |            | 50      | 25        | 19.70                | 19.85                | 20.48                | 20.41                | 20.51                | 0-1                       | 0        |
|            |            | 50      | 49        | 19.61                | 19.87                | 20.49                | 20.39                | 20.52                | 0-1                       | 0        |
|            |            | 100     | 0         | 19.68                | 19.87                | 20.46                | 20.42                | 20.52                | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.03                | 19.75                | 20.56                | 20.33                | 20.50                | 0-1                       | 0        |
|            |            | 1       | 49        | 19.83                | 20.00                | 20.67                | 20.51                | 20.67                | 0-1                       | 0        |
|            |            | 1       | 99        | 19.53                | 19.97                | 20.41                | 20.43                | 20.52                | 0-1                       | 0        |
|            |            | 50      | 0         | 19.73                | 19.82                | 20.54                | 20.41                | 20.52                | 0-2                       | 0        |
|            |            | 50      | 25        | 19.71                | 19.86                | 20.52                | 20.43                | 20.51                | 0-2                       | 0        |
|            |            | 50      | 49        | 19.63                | 19.88                | 20.50                | 20.42                | 20.55                | 0-2                       | 0        |
|            |            | 100     | 0         | 19.70                | 19.87                | 20.51                | 20.42                | 20.55                | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.50                | 19.25                | 20.07                | 19.83                | 20.06                | 0-2                       | 0        |
|            |            | 1       | 49        | 19.32                | 19.46                | 20.17                | 20.06                | 20.18                | 0-2                       | 0        |
|            |            | 1       | 99        | 18.99                | 19.46                | 19.92                | 19.97                | 20.03                | 0-2                       | 0        |
|            |            | 50      | 0         | 19.69                | 19.78                | 20.52                | 20.39                | 20.49                | 0-3                       | 0        |
|            |            | 50      | 25        | 19.66                | 19.83                | 20.53                | 20.42                | 20.50                | 0-3                       | 0        |
|            |            | 50      | 49        | 19.58                | 19.85                | 20.49                | 20.39                | 20.51                | 0-3                       | 0        |
|            |            | 100     | 0         | 19.68                | 19.85                | 20.49                | 20.43                | 20.54                | 0-3                       | 0        |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[LTE TDD Band 41 Conducted Power\_Receiver ON]- Power Class 2**

LTE Band 41 \_ 5 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]     |                         |                         |                         |                         | MPR Allowed Per GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|----------|
|            |            |         |           | 39675 Ch.<br>2498.5 MHz | 40148 Ch.<br>2545.8 MHz | 40620 Ch.<br>2593.0 MHz | 41093 Ch.<br>2640.3 MHz | 41565 Ch.<br>2687.5 MHz |                          |          |
| 5 MHz      | QPSK       | 1       | 0         | 20.08                   | 19.79                   | 20.43                   | 20.48                   | 20.68                   | 0                        | 0        |
|            |            | 1       | 12        | 20.00                   | 19.84                   | 20.47                   | 20.53                   | 20.69                   | 0                        | 0        |
|            |            | 1       | 24        | 19.85                   | 19.84                   | 20.43                   | 20.49                   | 20.65                   | 0                        | 0        |
|            |            | 12      | 0         | 19.91                   | 19.70                   | 20.31                   | 20.40                   | 20.54                   | 0-1                      | 0        |
|            |            | 12      | 6         | 19.83                   | 19.68                   | 20.32                   | 20.39                   | 20.52                   | 0-1                      | 0        |
|            |            | 12      | 11        | 19.81                   | 19.68                   | 20.30                   | 20.37                   | 20.52                   | 0-1                      | 0        |
|            | 16QAM      | 25      | 0         | 19.86                   | 19.71                   | 20.33                   | 20.41                   | 20.55                   | 0-1                      | 0        |
|            |            | 1       | 0         | 20.25                   | 19.99                   | 20.62                   | 20.61                   | 20.82                   | 0-1                      | 0        |
|            |            | 1       | 12        | 20.18                   | 20.03                   | 20.68                   | 20.71                   | 20.86                   | 0-1                      | 0        |
|            |            | 1       | 24        | 20.05                   | 20.04                   | 20.63                   | 20.68                   | 20.87                   | 0-1                      | 0        |
|            |            | 12      | 0         | 19.92                   | 19.73                   | 20.34                   | 20.41                   | 20.54                   | 0-2                      | 0        |
|            |            | 12      | 6         | 19.84                   | 19.71                   | 20.35                   | 20.39                   | 20.53                   | 0-2                      | 0        |
|            | 64QAM      | 12      | 11        | 19.84                   | 19.71                   | 20.32                   | 20.41                   | 20.55                   | 0-2                      | 0        |
|            |            | 25      | 0         | 19.89                   | 19.76                   | 20.36                   | 20.43                   | 20.57                   | 0-2                      | 0        |
|            |            | 1       | 0         | 19.99                   | 19.70                   | 20.34                   | 20.41                   | 20.56                   | 0-2                      | 0        |
|            |            | 1       | 12        | 19.85                   | 19.70                   | 20.36                   | 20.38                   | 20.59                   | 0-2                      | 0        |
|            |            | 1       | 24        | 19.73                   | 19.73                   | 20.33                   | 20.40                   | 20.58                   | 0-2                      | 0        |
|            |            | 12      | 0         | 19.98                   | 19.77                   | 20.39                   | 20.45                   | 20.60                   | 0-3                      | 0        |
|            |            | 12      | 6         | 19.89                   | 19.76                   | 20.38                   | 20.44                   | 20.56                   | 0-3                      | 0        |
|            |            | 12      | 11        | 19.88                   | 19.75                   | 20.35                   | 20.43                   | 20.56                   | 0-3                      | 0        |
|            |            | 25      | 0         | 19.92                   | 19.78                   | 20.41                   | 20.46                   | 20.60                   | 0-3                      | 0        |

LTE Band 41 \_ 10 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]   |                       |                       |                       |                       | MPR Allowed Per 3GPP [dB] | MPR [dB] |   |
|------------|------------|---------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------------|----------|---|
|            |            |         |           | 39700 Ch.<br>2501 MHz | 40160 Ch.<br>2547 MHz | 40620 Ch.<br>2593 MHz | 41080 Ch.<br>2639 MHz | 41540 Ch.<br>2685 MHz |                           |          |   |
| 10 MHz     | QPSK       | 1       | 0         | 20.00                 | 19.73                 | 20.42                 | 20.39                 | 20.61                 | 0                         | 0        |   |
|            |            | 1       | 24        | 19.83                 | 19.82                 | 20.46                 | 20.48                 | 20.64                 | 0                         | 0        |   |
|            |            | 1       | 49        | 19.67                 | 19.86                 | 20.33                 | 20.45                 | 20.62                 | 0                         | 0        |   |
|            |            | 25      | 0         | 19.79                 | 19.70                 | 20.31                 | 20.36                 | 20.51                 | 0-1                       | 0        |   |
|            |            | 25      | 12        | 19.73                 | 19.72                 | 20.29                 | 20.39                 | 20.53                 | 0-1                       | 0        |   |
|            |            | 25      | 24        | 19.68                 | 19.73                 | 20.29                 | 20.38                 | 20.53                 | 0-1                       | 0        |   |
|            | 16QAM      | 50      | 0         | 19.78                 | 19.74                 | 20.30                 | 20.37                 | 20.53                 | 0-1                       | 0        |   |
|            |            | 1       | 0         | 20.23                 | 19.98                 | 20.65                 | 20.60                 | 20.83                 | 0-1                       | 0        |   |
|            |            | 1       | 24        | 20.06                 | 20.07                 | 20.68                 | 20.70                 | 20.85                 | 0-1                       | 0        |   |
|            |            | 1       | 49        | 19.92                 | 20.10                 | 20.57                 | 20.66                 | 20.82                 | 0-1                       | 0        |   |
|            |            | 25      | 0         | 19.84                 | 19.74                 | 20.34                 | 20.38                 | 20.53                 | 0-2                       | 0        |   |
|            |            | 25      | 12        | 19.77                 | 19.76                 | 20.33                 | 20.41                 | 20.54                 | 0-2                       | 0        |   |
|            | 64QAM      | 25      | 24        | 19.72                 | 19.79                 | 20.33                 | 20.42                 | 20.57                 | 0-2                       | 0        |   |
|            |            | 50      | 0         | 19.80                 | 19.79                 | 20.35                 | 20.43                 | 20.56                 | 0-2                       | 0        |   |
|            |            | 1       | 0         | 19.92                 | 19.66                 | 20.34                 | 20.30                 | 20.54                 | 0-2                       | 0        |   |
|            |            | 1       | 24        | 19.76                 | 19.76                 | 20.39                 | 20.39                 | 20.55                 | 0-2                       | 0        |   |
|            |            | 1       | 49        | 19.58                 | 19.77                 | 20.25                 | 20.33                 | 20.52                 | 0-2                       | 0        |   |
|            |            | 25      | 0         | 19.91                 | 19.82                 | 20.42                 | 20.46                 | 20.59                 | 0-3                       | 0        |   |
|            |            |         | 25        | 12                    | 19.83                 | 19.82                 | 20.40                 | 20.47                 | 20.64                     | 0-3      | 0 |
|            |            |         | 25        | 24                    | 19.78                 | 19.83                 | 20.38                 | 20.45                 | 20.64                     | 0-3      | 0 |
|            |            |         | 50        | 0                     | 19.78                 | 19.76                 | 20.31                 | 20.39                 | 20.53                     | 0-3      | 0 |

LTE Band 41 \_ 15 MHz Bandwidth- Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]     |                         |                         |                         |                         | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|----------|
|            |            |         |           | 39725 Ch.<br>2503.5 MHz | 40173 Ch.<br>2548.3 MHz | 40620 Ch.<br>2593.0 MHz | 41068 Ch.<br>2637.8 MHz | 41515 Ch.<br>2682.5 MHz |                           |          |
| 15 MHz     | QPSK       | 1       | 0         | 19.93                   | 19.69                   | 20.37                   | 20.25                   | 20.56                   | 0                         | 0        |
|            |            | 1       | 36        | 19.74                   | 19.84                   | 20.43                   | 20.41                   | 20.59                   | 0                         | 0        |
|            |            | 1       | 74        | 19.52                   | 19.85                   | 20.25                   | 20.35                   | 20.56                   | 0                         | 0        |
|            |            | 36      | 0         | 19.70                   | 19.65                   | 20.28                   | 20.25                   | 20.48                   | 0-1                       | 0        |
|            |            | 36      | 18        | 19.62                   | 19.69                   | 20.25                   | 20.31                   | 20.49                   | 0-1                       | 0        |
|            |            | 36      | 39        | 19.55                   | 19.73                   | 20.21                   | 20.29                   | 20.50                   | 0-1                       | 0        |
|            |            | 75      | 0         | 19.65                   | 19.72                   | 20.32                   | 20.32                   | 20.52                   | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.20                   | 19.96                   | 20.59                   | 20.50                   | 20.77                   | 0-1                       | 0        |
|            |            | 1       | 36        | 20.00                   | 20.05                   | 20.66                   | 20.59                   | 20.78                   | 0-1                       | 0        |
|            |            | 1       | 74        | 19.78                   | 20.09                   | 20.49                   | 20.53                   | 20.77                   | 0-1                       | 0        |
|            |            | 36      | 0         | 19.73                   | 19.67                   | 20.31                   | 20.29                   | 20.47                   | 0-2                       | 0        |
|            |            | 36      | 18        | 19.64                   | 19.71                   | 20.26                   | 20.32                   | 20.48                   | 0-2                       | 0        |
|            |            | 36      | 39        | 19.57                   | 19.77                   | 20.24                   | 20.28                   | 20.49                   | 0-2                       | 0        |
|            |            | 75      | 0         | 19.68                   | 19.76                   | 20.34                   | 20.34                   | 20.52                   | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.89                   | 19.65                   | 20.29                   | 20.21                   | 20.50                   | 0-2                       | 0        |
|            |            | 1       | 36        | 19.68                   | 19.73                   | 20.34                   | 20.33                   | 20.52                   | 0-2                       | 0        |
|            |            | 1       | 74        | 19.44                   | 19.77                   | 20.19                   | 20.29                   | 20.48                   | 0-2                       | 0        |
|            |            | 36      | 0         | 19.73                   | 19.69                   | 20.32                   | 20.30                   | 20.47                   | 0-3                       | 0        |
| 36         |            | 18      | 19.64     | 19.71                   | 20.27                   | 20.34                   | 20.49                   | 0-3                     | 0                         |          |
| 36         |            | 39      | 19.57     | 19.77                   | 20.24                   | 20.28                   | 20.51                   | 0-3                     | 0                         |          |
| 75         |            | 0       | 19.67     | 19.74                   | 20.32                   | 20.33                   | 20.52                   | 0-3                     | 0                         |          |

LTE Band 41 \_ 20 MHz Bandwidth - Power Class 2

| Band width | Modulation | RB Size | RB Offset | Reduced Power [dBm]     |                         |                         |                         |                         | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|------------|------------|---------|-----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|----------|
|            |            |         |           | 39750 Ch.<br>2506.0 MHz | 40185 Ch.<br>2549.5 MHz | 40620 Ch.<br>2593.0 MHz | 41055 Ch.<br>2636.5 MHz | 41490 Ch.<br>2680.0 MHz |                           |          |
| 20 MHz     | QPSK       | 1       | 0         | 19.90                   | 19.62                   | 20.33                   | 20.19                   | 20.54                   | 0                         | 0        |
|            |            | 1       | 49        | 19.71                   | 19.86                   | 20.41                   | 20.38                   | 20.62                   | 0                         | 0        |
|            |            | 1       | 99        | 19.42                   | 19.85                   | 20.15                   | 20.30                   | 20.48                   | 0                         | 0        |
|            |            | 50      | 0         | 19.66                   | 19.69                   | 20.28                   | 20.26                   | 20.51                   | 0-1                       | 0        |
|            |            | 50      | 25        | 19.61                   | 19.76                   | 20.28                   | 20.31                   | 20.52                   | 0-1                       | 0        |
|            |            | 50      | 49        | 19.53                   | 19.78                   | 20.26                   | 20.30                   | 20.52                   | 0-1                       | 0        |
|            |            | 100     | 0         | 19.61                   | 19.76                   | 20.27                   | 20.30                   | 20.52                   | 0-1                       | 0        |
|            | 16QAM      | 1       | 0         | 20.14                   | 19.88                   | 20.54                   | 20.39                   | 20.70                   | 0-1                       | 0        |
|            |            | 1       | 49        | 19.95                   | 20.10                   | 20.65                   | 20.59                   | 20.84                   | 0-1                       | 0        |
|            |            | 1       | 99        | 19.64                   | 20.09                   | 20.38                   | 20.50                   | 20.70                   | 0-1                       | 0        |
|            |            | 50      | 0         | 19.69                   | 19.76                   | 20.33                   | 20.31                   | 20.54                   | 0-2                       | 0        |
|            |            | 50      | 25        | 19.63                   | 19.78                   | 20.32                   | 20.33                   | 20.52                   | 0-2                       | 0        |
|            |            | 50      | 49        | 19.58                   | 19.83                   | 20.29                   | 20.33                   | 20.55                   | 0-2                       | 0        |
|            |            | 100     | 0         | 19.64                   | 19.80                   | 20.28                   | 20.31                   | 20.57                   | 0-2                       | 0        |
|            | 64QAM      | 1       | 0         | 19.84                   | 19.55                   | 20.23                   | 20.11                   | 20.42                   | 0-2                       | 0        |
|            |            | 1       | 49        | 19.65                   | 19.78                   | 20.35                   | 20.29                   | 20.53                   | 0-2                       | 0        |
|            |            | 1       | 99        | 19.32                   | 19.76                   | 20.08                   | 20.21                   | 20.41                   | 0-2                       | 0        |
|            |            | 50      | 0         | 19.67                   | 19.71                   | 20.29                   | 20.26                   | 20.51                   | 0-3                       | 0        |
| 50         |            | 25      | 19.60     | 19.75                   | 20.29                   | 20.34                   | 20.52                   | 0-3                     | 0                         |          |
| 50         |            | 49      | 19.54     | 19.78                   | 20.25                   | 20.28                   | 20.52                   | 0-3                     | 0                         |          |
| 100        |            | 0       | 19.63     | 19.77                   | 20.27                   | 20.33                   | 20.56                   | 0-3                     | 0                         |          |

Note; LTE Band 41 has 5 required test channels per FCC KDB 447498 D01v06.

**[LTE TDD Band 48 Conducted Power\_Receiver ON]**

LTE Band 48\_ 5 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm]  |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|----------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55265 Ch. 3552.5 MHz | 55748 Ch. 3600.8 MHz | 56232 Ch. 3649.2 MHz | 56715 Ch. 3697.5 MHz |                           |          |
| 5 MHz     | QPSK       | 1       | 0         | 17.78                | 17.00                | 16.85                | 17.20                | 0                         | 0        |
|           |            | 1       | 12        | 17.77                | 17.00                | 16.85                | 17.18                | 0                         | 0        |
|           |            | 1       | 24        | 17.68                | 17.02                | 16.89                | 17.15                | 0                         | 0        |
|           |            | 12      | 0         | 17.75                | 17.00                | 16.90                | 17.19                | 0-1                       | 0        |
|           |            | 12      | 6         | 17.73                | 16.99                | 16.85                | 17.21                | 0-1                       | 0        |
|           |            | 12      | 11        | 17.70                | 16.97                | 16.82                | 17.20                | 0-1                       | 0        |
|           | 16QAM      | 25      | 0         | 17.75                | 16.99                | 16.87                | 17.18                | 0-1                       | 0        |
|           |            | 1       | 0         | 17.84                | 17.02                | 16.90                | 17.26                | 0-1                       | 0        |
|           |            | 1       | 12        | 17.80                | 17.06                | 16.92                | 17.25                | 0-1                       | 0        |
|           |            | 1       | 24        | 17.74                | 17.09                | 16.96                | 17.26                | 0-1                       | 0        |
|           |            | 12      | 0         | 17.74                | 16.94                | 16.84                | 17.17                | 0-2                       | 0        |
|           |            | 12      | 6         | 17.72                | 16.95                | 16.80                | 17.16                | 0-2                       | 0        |
|           | 64QAM      | 12      | 11        | 17.68                | 16.93                | 16.82                | 17.16                | 0-2                       | 0        |
|           |            | 25      | 0         | 17.84                | 17.03                | 16.88                | 17.27                | 0-2                       | 0        |
|           |            | 1       | 0         | 17.53                | 16.72                | 16.59                | 16.94                | 0-2                       | 0        |
|           |            | 1       | 12        | 17.50                | 16.77                | 16.63                | 16.95                | 0-2                       | 0        |
|           |            | 1       | 24        | 17.43                | 16.76                | 16.63                | 16.93                | 0-2                       | 0        |
|           |            | 12      | 0         | 17.83                | 17.05                | 16.91                | 17.26                | 0-3                       | 0        |
|           | 64QAM      | 12      | 6         | 17.79                | 17.02                | 16.93                | 17.23                | 0-3                       | 0        |
|           |            | 12      | 11        | 17.79                | 17.01                | 16.89                | 17.25                | 0-3                       | 0        |
|           |            | 25      | 0         | 17.87                | 17.06                | 16.90                | 17.27                | 0-3                       | 0        |

LTE Band 48\_ 10 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                    | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|--------------------|---------------------------|----------|
|           |            |         |           | 55290Ch. 3555 MHz   | 55757 Ch. 3601.7 MHz | 56223 Ch. 3648.3 MHz | 56690 Ch. 3695 MHz |                           |          |
| 10 MHz    | QPSK       | 1       | 0         | 17.75               | 16.98                | 16.81                | 17.19              | 0                         | 0        |
|           |            | 1       | 24        | 17.71               | 16.99                | 16.88                | 17.18              | 0                         | 0        |
|           |            | 1       | 49        | 17.56               | 16.99                | 16.85                | 17.18              | 0                         | 0        |
|           |            | 25      | 0         | 17.78               | 17.01                | 16.82                | 17.15              | 0-1                       | 0        |
|           |            | 25      | 12        | 17.72               | 16.99                | 16.89                | 17.20              | 0-1                       | 0        |
|           |            | 25      | 24        | 17.66               | 17.01                | 16.85                | 17.21              | 0-1                       | 0        |
|           | 16QAM      | 50      | 0         | 17.76               | 17.09                | 16.85                | 17.25              | 0-1                       | 0        |
|           |            | 1       | 0         | 17.81               | 17.02                | 16.87                | 17.22              | 0-1                       | 0        |
|           |            | 1       | 24        | 17.76               | 17.07                | 16.94                | 17.24              | 0-1                       | 0        |
|           |            | 1       | 49        | 17.64               | 17.07                | 16.94                | 17.23              | 0-1                       | 0        |
|           |            | 25      | 0         | 17.79               | 17.04                | 16.87                | 17.23              | 0-2                       | 0        |
|           |            | 25      | 12        | 17.73               | 17.04                | 16.88                | 17.23              | 0-2                       | 0        |
|           | 64QAM      | 25      | 24        | 17.69               | 17.03                | 16.87                | 17.22              | 0-2                       | 0        |
|           |            | 50      | 0         | 17.77               | 17.10                | 16.92                | 17.25              | 0-2                       | 0        |
|           |            | 1       | 0         | 17.50               | 16.69                | 16.54                | 16.89              | 0-2                       | 0        |
|           |            | 1       | 24        | 17.43               | 16.73                | 16.61                | 16.91              | 0-2                       | 0        |
|           |            | 1       | 49        | 17.31               | 16.73                | 16.60                | 16.90              | 0-2                       | 0        |
|           |            | 25      | 0         | 17.86               | 17.06                | 16.90                | 17.26              | 0-3                       | 0        |
|           | 64QAM      | 25      | 12        | 17.79               | 17.07                | 16.94                | 17.32              | 0-3                       | 0        |
|           |            | 25      | 24        | 17.74               | 17.08                | 16.90                | 17.31              | 0-3                       | 0        |
|           |            | 50      | 0         | 17.74               | 17.05                | 16.90                | 17.25              | 0-3                       | 0        |

LTE Band 48 \_ 15 MHz Bandwidth

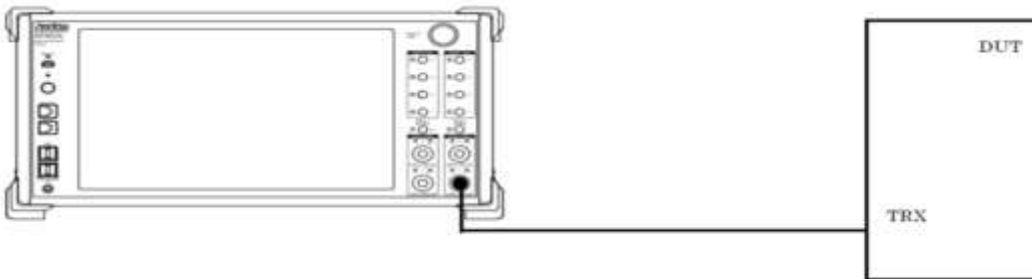
| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55315Ch. 3557.5 MHz | 55765 Ch. 3602.5 MHz | 56215 Ch. 3647.5 MHz | 56665 Ch. 3692.5 MHz |                           |          |
| 15 MHz    | QPSK       | 1       | 0         | 17.67               | 16.86                | 16.75                | 17.07                | 0                         | 0        |
|           |            | 1       | 36        | 17.66               | 17.03                | 16.84                | 17.13                | 0                         | 0        |
|           |            | 1       | 74        | 17.32               | 16.93                | 16.84                | 17.12                | 0                         | 0        |
|           |            | 36      | 0         | 17.67               | 16.94                | 16.79                | 17.16                | 0-1                       | 0        |
|           |            | 36      | 18        | 17.66               | 17.00                | 16.84                | 17.21                | 0-1                       | 0        |
|           |            | 36      | 39        | 17.52               | 17.00                | 16.89                | 17.19                | 0-1                       | 0        |
|           |            | 75      | 0         | 17.66               | 17.05                | 16.90                | 17.26                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.72               | 16.97                | 16.83                | 17.21                | 0-1                       | 0        |
|           |            | 1       | 36        | 17.72               | 17.11                | 16.91                | 17.22                | 0-1                       | 0        |
|           |            | 1       | 74        | 17.45               | 17.04                | 16.90                | 17.22                | 0-1                       | 0        |
|           |            | 36      | 0         | 17.64               | 16.93                | 16.84                | 17.20                | 0-2                       | 0        |
|           |            | 36      | 18        | 17.62               | 17.00                | 16.81                | 17.18                | 0-2                       | 0        |
|           |            | 36      | 39        | 17.55               | 16.97                | 16.80                | 17.23                | 0-2                       | 0        |
|           |            | 75      | 0         | 17.70               | 17.06                | 16.85                | 17.25                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.41               | 16.63                | 16.50                | 16.86                | 0-2                       | 0        |
|           |            | 1       | 36        | 17.39               | 16.81                | 16.59                | 16.92                | 0-2                       | 0        |
|           |            | 1       | 74        | 17.12               | 16.72                | 16.55                | 16.87                | 0-2                       | 0        |
|           |            | 36      | 0         | 17.70               | 16.98                | 16.87                | 17.24                | 0-3                       | 0        |
|           |            | 36      | 18        | 17.70               | 17.01                | 16.83                | 17.22                | 0-3                       | 0        |
|           |            | 36      | 39        | 17.56               | 17.01                | 16.85                | 17.18                | 0-3                       | 0        |
|           |            | 75      | 0         | 17.64               | 17.04                | 16.91                | 17.25                | 0-3                       | 0        |

LTE Band 48 \_ 20 MHz Bandwidth

| Bandwidth | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                      |                      |                      | MPR Allowed Per 3GPP [dB] | MPR [dB] |
|-----------|------------|---------|-----------|---------------------|----------------------|----------------------|----------------------|---------------------------|----------|
|           |            |         |           | 55340Ch. 3560.0 MHz | 55773 Ch. 3603.3 MHz | 56207 Ch. 3646.7 MHz | 56640 Ch. 3690.0 MHz |                           |          |
| 20 MHz    | QPSK       | 1       | 0         | 17.61               | 16.85                | 16.76                | 17.03                | 0                         | 0        |
|           |            | 1       | 49        | 17.60               | 17.05                | 16.87                | 17.16                | 0                         | 0        |
|           |            | 1       | 99        | 17.17               | 16.96                | 16.78                | 17.08                | 0                         | 0        |
|           |            | 50      | 0         | 17.74               | 17.00                | 16.90                | 17.22                | 0-1                       | 0        |
|           |            | 50      | 25        | 17.62               | 17.03                | 16.91                | 17.21                | 0-1                       | 0        |
|           |            | 50      | 49        | 17.44               | 17.04                | 16.88                | 17.26                | 0-1                       | 0        |
|           |            | 100     | 0         | 17.57               | 17.01                | 16.91                | 17.19                | 0-1                       | 0        |
|           | 16QAM      | 1       | 0         | 17.67               | 16.91                | 16.82                | 17.14                | 0-1                       | 0        |
|           |            | 1       | 49        | 17.65               | 17.09                | 16.93                | 17.24                | 0-1                       | 0        |
|           |            | 1       | 99        | 17.25               | 17.01                | 16.86                | 17.16                | 0-1                       | 0        |
|           |            | 50      | 0         | 17.72               | 17.01                | 16.89                | 17.24                | 0-2                       | 0        |
|           |            | 50      | 25        | 17.65               | 17.06                | 16.88                | 17.27                | 0-2                       | 0        |
|           |            | 50      | 49        | 17.51               | 17.05                | 16.95                | 17.29                | 0-2                       | 0        |
|           |            | 100     | 0         | 17.60               | 17.03                | 16.88                | 17.23                | 0-2                       | 0        |
|           | 64QAM      | 1       | 0         | 17.35               | 16.57                | 16.48                | 16.79                | 0-2                       | 0        |
|           |            | 1       | 49        | 17.30               | 16.77                | 16.59                | 16.93                | 0-2                       | 0        |
|           |            | 1       | 99        | 16.90               | 16.67                | 16.51                | 16.82                | 0-2                       | 0        |
|           |            | 50      | 0         | 17.71               | 16.98                | 16.86                | 17.27                | 0-3                       | 0        |
|           |            | 50      | 25        | 17.66               | 17.06                | 16.91                | 17.24                | 0-3                       | 0        |
|           |            | 50      | 49        | 17.45               | 17.07                | 16.87                | 17.29                | 0-3                       | 0        |
|           |            | 100     | 0         | 17.63               | 17.03                | 16.86                | 17.26                | 0-3                       | 0        |

### 11.4.6 LTE Up-link Carrier Aggregation Conducted Powers Setup

To measure the LTE UP CA power of this device, Anritsu's MT8821C was used to check the power as follows.



Power Measurement setup

.TDD CA\_41C Intra-Band Contiguous Call Connection

Set to MT8821C with following parameters:

- Set up the call box for PCC Configuration for LTE Uplink CA
- Set up the call box for SCC Configuration for LTE Uplink CA
- Measure the maximum output power in Uplink LTE CA conditions.

The screenshot displays the MT8821C software interface. On the left, the 'Authentication Key K' is highlighted in red, showing the values: 00112233 44556677 8899AABB CCDD EEEF. The 'UE Report' section on the right shows a red box around the IMSI (001010123456789), IMEI (35588090000740), and PDN Type (IPv6v6). The 'Signaling Trace' section at the bottom shows a list of messages including 'ATTACH COMPLETE' and 'ATTACH ACCEPT'.

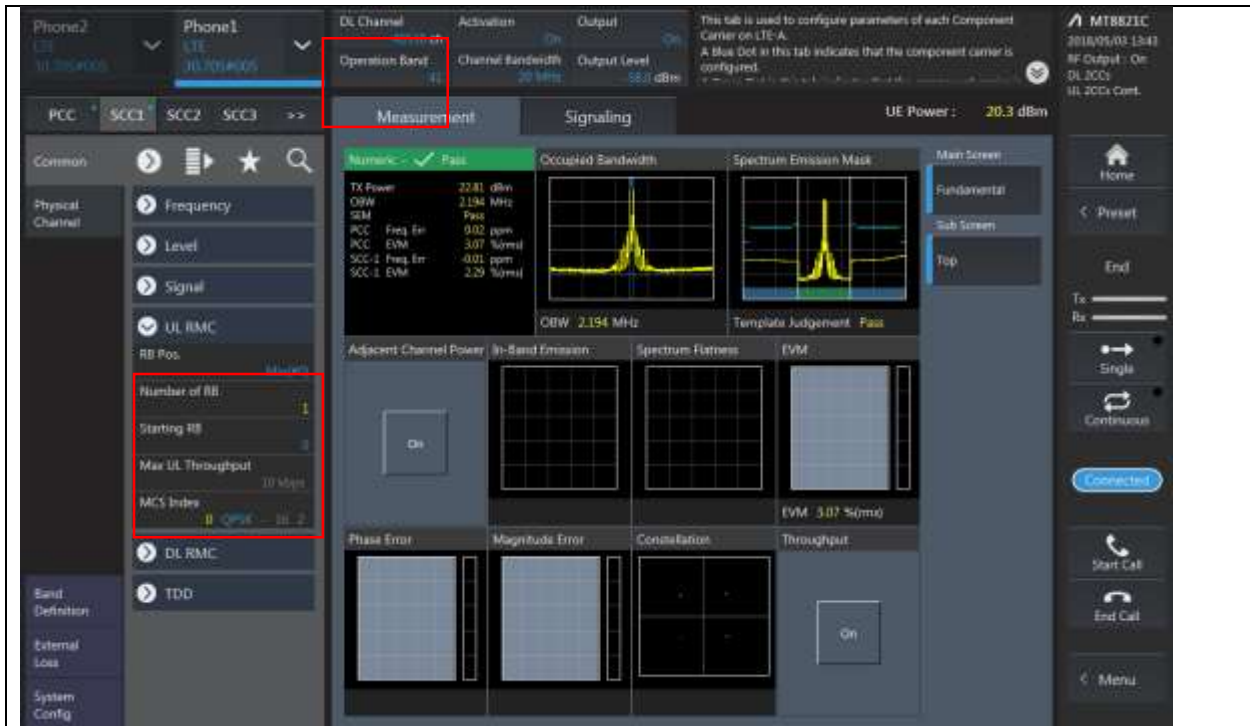
Call 1 :Select PCC Configuration for Authentication key to Register



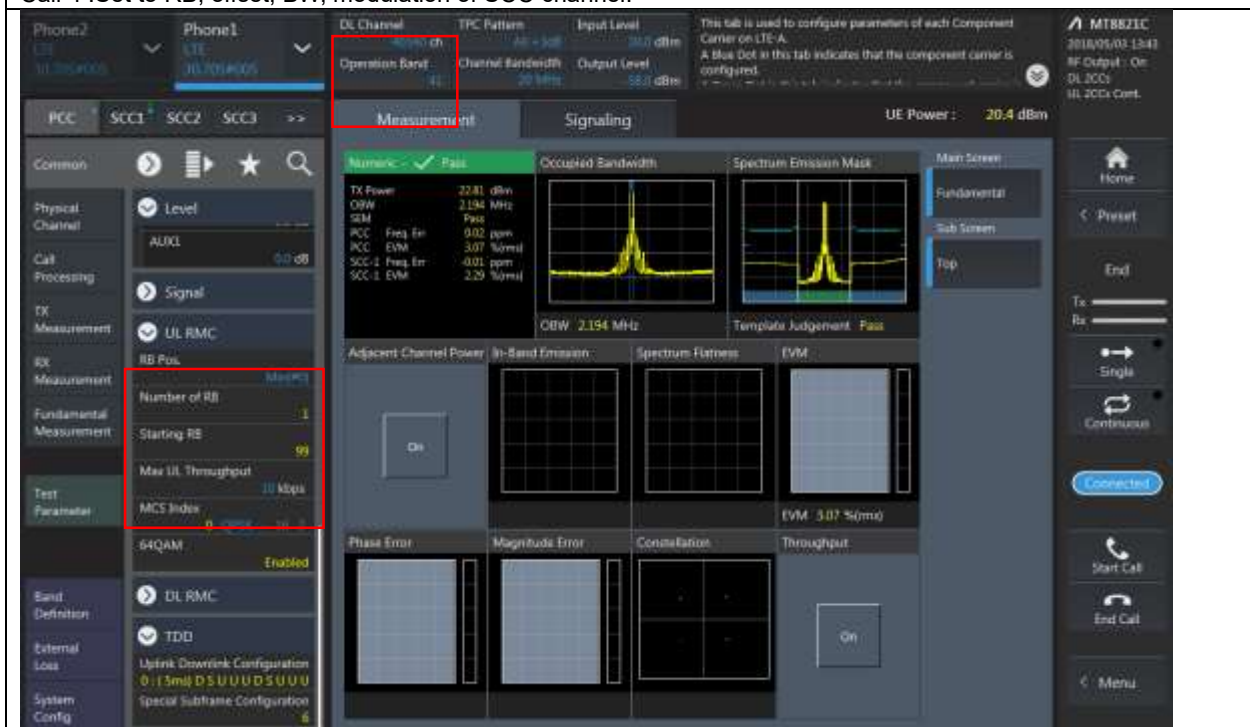
Call 2 :Select PCC Configuration for LTE UL CA and Cable loss

Call 3 :Select PCC Configuration for LTE TDD “ Uplink Downlink Configuration” set to “0”  
And then Select “connect”button.





Call 4 :Set to RB, offset, BW, modulation of SCC channel.



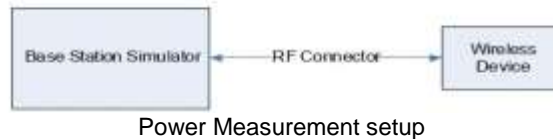
Call 5: Set to RB, offset, BW, modulation and Max Power conditions of PCC required test channel.

## LTE Uplink Carrier Aggregation Conducted Powers

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers(CC)s supported by test product implementation. For those configurations required by April 2018 TCBC Workshop notes, conducted power measurements with LTE Carrier Aggregation(CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s)(SCC) on the downlink only.

### Uplink Carrier aggregation:

- 1 This device supports uplink carrier aggregation for LTE CA\_41C with a maximum of 20 MHz component carriers. For intra-band contiguous carrier aggregation scenarios, 3GPP36.101 Table 6.2.2A-1 specifies that aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted Powers and MPR setting in this device are permanently implemented per the above 3GPP requirements.
2. Per Fall 2017 TCBC Workshop Notes, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



### 2CA 41C Uplink Carrier aggregation Conducted Powers- Maximum Power Mode

|                        |     | Freq.  | ch    | BW    | RB size | RB offset | Position | max power | CA power |
|------------------------|-----|--------|-------|-------|---------|-----------|----------|-----------|----------|
| LTE 41C(PC3) Body worn | PCC | 2593.0 | 40620 | 20MHz | 1       | 0         | Rear     | 24        | 23.52    |
|                        | SCC | 2573.2 | 40422 | 20MHz | 1       | 99        |          |           |          |
| LTE 41C(PC2) Body worn | PCC | 2593.0 | 40620 | 20MHz | 1       | 0         | Rear     | 27        | 26.54    |
|                        | SCC | 2573.2 | 40422 | 20MHz | 1       | 99        |          |           |          |

### 2CA 41C Uplink Carrier aggregation Conducted Powers- Reduced Power Mode

|                      |     | Freq.  | ch    | BW    | RB size | RB offset | Position    | max power | CA power |
|----------------------|-----|--------|-------|-------|---------|-----------|-------------|-----------|----------|
| LTE 41C(PC3) RCV     | PCC | 2593.0 | 40620 | 20MHz | 50      | 0         | Right Touch | 21.0      | 20.64    |
|                      | SCC | 2573.2 | 40422 | 20MHz | 50      | 49        |             |           |          |
| LTE 41C(PC3) Hotspot | PCC | 2549.5 | 40185 | 20MHz | 50      | 49        | Rear        | 21.0      | 20.66    |
|                      | SCC | 2569.3 | 40383 | 20MHz | 50      | 0         |             |           |          |
| LTE 41C(PC3) Grip    | PCC | 2680.0 | 41490 | 20MHz | 50      | 0         | Rear        | 21.0      | 20.7     |
|                      | SCC | 2660.2 | 41292 | 20MHz | 50      | 49        |             |           |          |

### 11.5 NR Maximum Output Power

#### 11.5.1 NR Band Maximum Conducted Power

[ NR Band n2 Conducted Power ]

NR Band n2 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|------------|----------|
|           |          |            |            |         |           | 370500                   | 376000   | 381500     |          |
|           |          |            |            |         |           | 1852.5 MHz               | 1880 MHz | 1907.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.45                    | 23.38    | 23.49      | 0        |
|           |          |            |            | 1       | 13        | 23.44                    | 23.41    | 23.58      | 0        |
|           |          |            |            | 1       | 23        | 23.48                    | 23.45    | 23.60      | 0        |
|           |          |            |            | 12      | 0         | 23.09                    | 23.05    | 23.16      | 0.5      |
|           |          |            |            | 12      | 7         | 23.53                    | 23.43    | 23.65      | 0        |
|           |          |            |            | 12      | 13        | 23.05                    | 23.01    | 23.19      | 0.5      |
|           |          |            |            | 25      | 0         | 23.10                    | 23.05    | 23.21      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.54                    | 23.45    | 23.57      | 0        |
|           |          |            |            | 1       | 13        | 23.53                    | 23.47    | 23.63      | 0        |
|           |          |            |            | 1       | 23        | 23.53                    | 23.47    | 23.63      | 0        |
|           |          |            |            | 12      | 0         | 22.60                    | 22.56    | 22.74      | 1        |
|           |          |            |            | 12      | 7         | 23.60                    | 23.49    | 23.67      | 0        |
|           |          |            |            | 12      | 13        | 22.54                    | 22.50    | 22.72      | 1        |
|           |          |            | 25         | 0       | 22.63     | 22.51                    | 22.70    | 1          |          |
| 16QAM     | 1        | 1          | 22.51      | 22.42   | 22.54     | 1                        |          |            |          |
| CP        | QPSK     | 1          | 1          | 21.95   | 21.89     | 22.03                    | 1.5      |            |          |

NR Band n2 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |          | MPR [dB] |     |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|-----|
|           |          |            |            |         |           | 371000                   | 376000   | 381000   |          |     |
|           |          |            |            |         |           | 1855 MHz                 | 1880 MHz | 1905 MHz |          |     |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.38                    | 23.18    | 23.34    | 0        |     |
|           |          |            |            | 1       | 26        | 23.40                    | 23.27    | 23.41    | 0        |     |
|           |          |            |            | 1       | 50        | 23.27                    | 23.24    | 23.40    | 0        |     |
|           |          |            |            | 25      | 0         | 22.97                    | 22.87    | 23.06    | 0.5      |     |
|           |          |            |            | 25      | 14        | 23.48                    | 23.34    | 23.47    | 0        |     |
|           |          |            |            | 25      | 27        | 22.94                    | 22.84    | 23.05    | 0.5      |     |
|           |          |            |            | 50      | 0         | 23.01                    | 22.78    | 23.02    | 0.5      |     |
|           |          |            | QPSK       | 1       | 1         | 23.41                    | 23.22    | 23.38    | 0        |     |
|           |          |            |            | 1       | 26        | 23.47                    | 23.35    | 23.48    | 0        |     |
|           |          |            |            | 1       | 50        | 23.29                    | 23.26    | 23.41    | 0        |     |
|           |          |            |            | 25      | 0         | 22.52                    | 22.31    | 22.56    | 1        |     |
|           |          |            |            | 25      | 14        | 23.53                    | 23.36    | 23.54    | 0        |     |
|           |          |            |            | 25      | 27        | 22.43                    | 22.32    | 22.50    | 1        |     |
|           |          |            | 50         | 0       | 22.53     | 22.33                    | 22.57    | 1        |          |     |
|           |          |            | 16QAM      | 1       | 1         | 22.41                    | 22.21    | 22.37    | 1        |     |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.81    | 21.62    | 21.79    | 1.5 |

NR Band n2 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|------------|----------|
|           |          |            |            |         |           | 371500                   | 376000   | 380500     |          |
|           |          |            |            |         |           | 1857.5 MHz               | 1880 MHz | 1902.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.51                    | 23.35    | 23.43      | 0        |
|           |          |            |            | 1       | 40        | 23.58                    | 23.49    | 23.52      | 0        |
|           |          |            |            | 1       | 77        | 23.46                    | 23.35    | 23.49      | 0        |
|           |          |            |            | 36      | 0         | 23.17                    | 22.99    | 23.08      | 0.5      |
|           |          |            |            | 36      | 22        | 23.55                    | 23.52    | 23.59      | 0        |
|           |          |            |            | 36      | 43        | 23.07                    | 23.05    | 23.07      | 0.5      |
|           |          |            |            | 75      | 0         | 23.16                    | 23.06    | 23.13      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.52                    | 23.35    | 23.42      | 0        |
|           |          |            |            | 1       | 40        | 23.56                    | 23.48    | 23.52      | 0        |
|           |          |            |            | 1       | 77        | 23.42                    | 23.34    | 23.44      | 0        |
|           |          |            |            | 36      | 0         | 22.61                    | 22.48    | 22.65      | 1        |
|           |          |            |            | 36      | 22        | 23.64                    | 23.56    | 23.61      | 0        |
|           |          |            |            | 36      | 43        | 22.55                    | 22.52    | 22.61      | 1        |
|           |          |            |            | 75      | 0         | 22.66                    | 22.55    | 22.66      | 1        |
|           |          | 16QAM      | 1          | 1       | 22.51     | 22.36                    | 22.50    | 1          |          |
| CP        | QPSK     | 1          | 1          | 21.92   | 21.79     | 21.81                    | 1.5      |            |          |

NR Band n2 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|
|           |          |            |            |         |           | 372000                   | 376000   | 380000   |          |
|           |          |            |            |         |           | 1860 MHz                 | 1880 MHz | 1900 MHz |          |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.45                    | 23.27    | 23.37    | 0        |
|           |          |            |            | 1       | 53        | 23.52                    | 23.48    | 23.56    | 0        |
|           |          |            |            | 1       | 104       | 23.31                    | 23.30    | 23.48    | 0        |
|           |          |            |            | 50      | 0         | 23.08                    | 23.01    | 23.12    | 0.5      |
|           |          |            |            | 50      | 28        | 23.59                    | 23.52    | 23.64    | 0        |
|           |          |            |            | 50      | 56        | 23.01                    | 22.96    | 23.04    | 0.5      |
|           |          |            |            | 100     | 0         | 23.07                    | 23.03    | 23.08    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.49                    | 23.37    | 23.40    | 0        |
|           |          |            |            | 1       | 53        | 23.57                    | 23.53    | 23.60    | 0        |
|           |          |            |            | 1       | 104       | 23.38                    | 23.38    | 23.45    | 0        |
|           |          |            |            | 50      | 0         | 22.59                    | 22.54    | 22.61    | 1        |
|           |          |            |            | 50      | 28        | 23.62                    | 23.54    | 23.71    | 0        |
|           |          |            |            | 50      | 56        | 22.55                    | 22.51    | 22.57    | 1        |
|           |          |            |            | 100     | 0         | 22.60                    | 22.51    | 22.62    | 1        |
|           |          | 16QAM      | 1          | 1       | 22.52     | 22.38                    | 22.49    | 1        |          |
| CP        | QPSK     | 1          | 1          | 21.88   | 21.72     | 21.82                    | 1.5      |          |          |

[ NR Band n5 Conducted Power ]

NR Band n5\_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |           |           | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|-----------|----------|
|           |          |            |            |         |           | 165300                   | 167300    | 169300    |          |
|           |          |            |            |         |           | 826.5 MHz                | 836.5 MHz | 846.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 24.61                    | 24.41     | 23.95     | 0        |
|           |          |            |            | 1       | 13        | 24.57                    | 24.36     | 23.90     | 0        |
|           |          |            |            | 1       | 23        | 24.52                    | 24.23     | 23.93     | 0        |
|           |          |            |            | 12      | 0         | 24.34                    | 24.04     | 23.65     | 0.5      |
|           |          |            |            | 12      | 7         | 24.64                    | 24.38     | 23.97     | 0        |
|           |          |            |            | 12      | 13        | 24.13                    | 23.93     | 23.53     | 0.5      |
|           |          |            | QPSK       | 25      | 0         | 24.25                    | 24.02     | 23.60     | 0.5      |
|           |          |            |            | 1       | 1         | 24.68                    | 24.46     | 23.98     | 0        |
|           |          |            |            | 1       | 13        | 24.68                    | 24.36     | 23.92     | 0        |
|           |          |            |            | 1       | 23        | 24.62                    | 24.25     | 23.94     | 0        |
|           |          |            |            | 12      | 0         | 23.89                    | 23.54     | 23.18     | 1        |
|           |          |            |            | 12      | 7         | 24.67                    | 24.39     | 23.97     | 0        |
|           |          |            | 16QAM      | 12      | 13        | 23.67                    | 23.47     | 23.03     | 1        |
|           |          |            |            | 25      | 0         | 23.76                    | 23.52     | 23.10     | 1        |
|           |          |            |            | 1       | 1         | 23.75                    | 23.57     | 23.14     | 1        |
|           |          |            | CP         | QPSK    | 1         | 1                        | 23.26     | 22.99     | 22.57    |

NR Band n5\_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |       |         | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------|---------|----------|
|           |          |            |            |         |           | 165800                   |       | 168800  |          |
|           |          |            |            |         |           | 829 MHz                  |       | 844 MHz |          |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 24.49                    |       | 23.98   | 0        |
|           |          |            |            | 1       | 26        | 24.31                    |       | 23.75   | 0        |
|           |          |            |            | 1       | 50        | 24.22                    |       | 23.68   | 0        |
|           |          |            |            | 25      | 0         | 24.21                    |       | 23.55   | 0.5      |
|           |          |            |            | 25      | 14        | 24.44                    |       | 23.85   | 0        |
|           |          |            |            | 25      | 27        | 23.93                    |       | 23.32   | 0.5      |
|           |          |            | QPSK       | 50      | 0         | 24.09                    |       | 23.41   | 0.5      |
|           |          |            |            | 1       | 1         | 24.48                    |       | 23.93   | 0        |
|           |          |            |            | 1       | 26        | 24.37                    |       | 23.79   | 0        |
|           |          |            |            | 1       | 50        | 24.18                    |       | 23.67   | 0        |
|           |          |            |            | 25      | 0         | 23.71                    |       | 23.05   | 1        |
|           |          |            |            | 25      | 14        | 24.49                    |       | 23.83   | 0        |
|           |          |            | 16QAM      | 25      | 27        | 23.46                    |       | 22.81   | 1        |
|           |          |            |            | 50      | 0         | 23.62                    |       | 22.96   | 1        |
|           |          |            |            | 1       | 1         | 23.62                    |       | 23.14   | 1        |
|           |          |            | CP         | QPSK    | 1         | 1                        | 22.99 |         | 22.57    |

NR Band n5\_ 15 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |           |   | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|---|----------|
|           |          |            |            |         |           |                          | 167300    |   |          |
|           |          |            |            |         |           |                          | 836.5 MHz |   |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                          | 24.42     |   | 0        |
|           |          |            |            | 1       | 40        |                          | 24.35     |   | 0        |
|           |          |            |            | 1       | 77        |                          | 23.96     |   | 0        |
|           |          |            |            | 36      | 0         |                          | 24.07     |   | 0.5      |
|           |          |            |            | 36      | 22        |                          | 24.34     |   | 0        |
|           |          |            |            | 36      | 43        |                          | 23.86     |   | 0.5      |
|           |          |            |            | 75      | 0         |                          | 24.00     |   | 0.5      |
|           |          |            | QPSK       | 1       | 1         |                          | 24.46     |   | 0        |
|           |          |            |            | 1       | 40        |                          | 24.35     |   | 0        |
|           |          |            |            | 1       | 77        |                          | 23.98     |   | 0        |
|           |          |            |            | 36      | 0         |                          | 23.63     |   | 1        |
|           |          |            |            | 36      | 22        |                          | 24.41     |   | 0        |
|           |          |            |            | 36      | 43        |                          | 23.40     |   | 1        |
|           |          |            |            | 75      | 0         |                          | 23.49     |   | 1        |
|           |          | 16QAM      | 1          | 1       |           | 23.54                    |           | 1 |          |
| CP        | QPSK     | 1          | 1          |         | 22.89     |                          | 1.5       |   |          |

NR Band n5\_ 20 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |           |       | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|-------|----------|---|
|           |          |            |            |         |           |                          | 167300    |       |          |   |
|           |          |            |            |         |           |                          | 836.5 MHz |       |          |   |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                          | 24.51     |       | 0        |   |
|           |          |            |            | 1       | 53        |                          | 24.40     |       | 0        |   |
|           |          |            |            | 1       | 104       |                          | 23.88     |       | 0        |   |
|           |          |            |            | 50      | 0         |                          | 24.18     |       | 0.5      |   |
|           |          |            |            | 50      | 28        |                          | 24.40     |       | 0        |   |
|           |          |            |            | 50      | 56        |                          | 23.71     |       | 0.5      |   |
|           |          |            |            | 100     | 0         |                          | 24.00     |       | 0.5      |   |
|           |          |            | QPSK       | 1       | 1         |                          | 24.54     |       | 0        |   |
|           |          |            |            | 1       | 53        |                          | 24.42     |       | 0        |   |
|           |          |            |            | 1       | 104       |                          | 23.80     |       | 0        |   |
|           |          |            |            | 50      | 0         |                          | 23.75     |       | 1        |   |
|           |          |            |            | 50      | 28        |                          | 24.41     |       | 0        |   |
|           |          |            |            | 50      | 56        |                          | 23.31     |       | 1        |   |
|           |          |            |            | 100     | 0         |                          | 23.56     |       | 1        |   |
|           |          |            |            | 16QAM   | 1         | 1                        |           | 23.62 |          | 1 |
|           |          |            |            | CP      | QPSK      | 1                        | 1         |       | 22.97    |   |

**[ NR Band n25 Conducted Power ]**

NR Band n25 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|------------|----------|
|           |          |            |            |         |           | 370500                   | 376500     | 382500     |          |
|           |          |            |            |         |           | 1852.5 MHz               | 1882.5 MHz | 1912.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.43                    | 23.36      | 23.54      | 0        |
|           |          |            |            | 1       | 13        | 23.43                    | 23.34      | 23.60      | 0        |
|           |          |            |            | 1       | 23        | 23.39                    | 23.41      | 23.68      | 0        |
|           |          |            |            | 12      | 0         | 23.08                    | 23.01      | 23.23      | 0.5      |
|           |          |            |            | 12      | 7         | <b>23.45</b>             | 23.43      | 23.71      | 0        |
|           |          |            |            | 12      | 13        | <b>23.03</b>             | 22.98      | 23.20      | 0.5      |
|           |          |            |            | 25      | 0         | 23.07                    | 23.02      | 23.23      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.58                    | 23.41      | 23.58      | 0        |
|           |          |            |            | 1       | 13        | 23.56                    | 23.44      | 23.64      | 0        |
|           |          |            |            | 1       | 23        | 23.55                    | 23.44      | 23.69      | 0        |
|           |          |            |            | 12      | 0         | 22.62                    | 22.50      | 22.72      | 1        |
|           |          |            |            | 12      | 7         | <b>23.56</b>             | 23.44      | 23.68      | 0        |
|           |          |            |            | 12      | 13        | <b>22.54</b>             | 22.49      | 22.77      | 1        |
|           |          |            |            | 25      | 0         | 22.57                    | 22.52      | 22.78      | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.59                    | 22.38      | 22.60      | 1        |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.99      | 21.89      | 22.07    |

NR Band n25 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|----------|----------|
|           |          |            |            |         |           | 371000                   | 376500     | 382000   |          |
|           |          |            |            |         |           | 1855 MHz                 | 1882.5 MHz | 1910 MHz |          |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.41                    | 23.18      | 23.27    | 0        |
|           |          |            |            | 1       | 26        | 23.36                    | 23.22      | 23.43    | 0        |
|           |          |            |            | 1       | 50        | 23.36                    | 23.24      | 23.48    | 0        |
|           |          |            |            | 25      | 0         | 22.98                    | 22.82      | 23.02    | 0.5      |
|           |          |            |            | 25      | 14        | 23.46                    | 23.29      | 23.53    | 0        |
|           |          |            |            | 25      | 27        | 22.93                    | 22.81      | 23.15    | 0.5      |
|           |          |            |            | 50      | 0         | 22.94                    | 22.81      | 23.05    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.40                    | 23.14      | 23.29    | 0        |
|           |          |            |            | 1       | 26        | 23.43                    | 23.28      | 23.48    | 0        |
|           |          |            |            | 1       | 50        | 23.34                    | 23.22      | 23.51    | 0        |
|           |          |            |            | 25      | 0         | 22.48                    | 22.28      | 22.49    | 1        |
|           |          |            |            | 25      | 14        | 23.48                    | 23.37      | 23.53    | 0        |
|           |          |            |            | 25      | 27        | 22.48                    | 22.34      | 22.62    | 1        |
|           |          |            |            | 50      | 0         | 22.47                    | 22.37      | 22.57    | 1        |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.41      | 22.22    | 22.40    |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.82      | 21.64    | 21.81    |

NR Band n25 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|------------|----------|
|           |          |            |            |         |           | 371500                   | 376500     | 381500     |          |
|           |          |            |            |         |           | 1857.5 MHz               | 1882.5 MHz | 1907.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.53                    | 23.28      | 23.44      | 0        |
|           |          |            |            | 1       | 40        | 23.52                    | 23.43      | 23.62      | 0        |
|           |          |            |            | 1       | 77        | 23.41                    | 23.42      | 23.63      | 0        |
|           |          |            |            | 36      | 0         | 23.07                    | 22.99      | 23.18      | 0.5      |
|           |          |            |            | 36      | 22        | 23.59                    | 23.49      | 23.61      | 0        |
|           |          |            |            | 36      | 43        | 23.05                    | 22.97      | 23.26      | 0.5      |
|           |          |            |            | 75      | 0         | 23.17                    | 22.97      | 23.26      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.54                    | 23.29      | 23.50      | 0        |
|           |          |            |            | 1       | 40        | 23.56                    | 23.44      | 23.64      | 0        |
|           |          |            |            | 1       | 77        | 23.43                    | 23.40      | 23.68      | 0        |
|           |          |            |            | 36      | 0         | 22.60                    | 22.50      | 22.69      | 1        |
|           |          |            |            | 36      | 22        | 23.63                    | 23.52      | 23.71      | 0        |
|           |          |            |            | 36      | 43        | 22.64                    | 22.53      | 22.76      | 1        |
|           |          |            |            | 75      | 0         | 22.69                    | 22.53      | 22.78      | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.61                    | 22.34      | 22.53      | 1        |
| CP        | QPSK     | 1          | 1          | 21.93   | 21.73     | 21.87                    | 1.5        |            |          |

NR Band n25 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |          | MPR [dB] |     |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|----------|----------|-----|
|           |          |            |            |         |           | 372000                   | 376500     | 381000   |          |     |
|           |          |            |            |         |           | 1860 MHz                 | 1882.5 MHz | 1905 MHz |          |     |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.42                    | 23.24      | 23.40    | 0        |     |
|           |          |            |            | 1       | 53        | 23.57                    | 23.45      | 23.60    | 0        |     |
|           |          |            |            | 1       | 104       | 23.33                    | 23.38      | 23.60    | 0        |     |
|           |          |            |            | 50      | 0         | 23.05                    | 22.96      | 23.18    | 0.5      |     |
|           |          |            |            | 50      | 28        | 23.59                    | 23.53      | 23.68    | 0        |     |
|           |          |            |            | 50      | 56        | 23.06                    | 23.05      | 23.20    | 0.5      |     |
|           |          |            |            | 100     | 0         | 23.09                    | 23.03      | 23.23    | 0.5      |     |
|           |          |            | QPSK       | 1       | 1         | 23.48                    | 23.31      | 23.46    | 0        |     |
|           |          |            |            | 1       | 53        | 23.59                    | 23.49      | 23.67    | 0        |     |
|           |          |            |            | 1       | 104       | 23.37                    | 23.34      | 23.63    | 0        |     |
|           |          |            |            | 50      | 0         | 22.59                    | 22.50      | 22.77    | 1        |     |
|           |          |            |            | 50      | 28        | 23.64                    | 23.57      | 23.77    | 0        |     |
|           |          |            |            | 50      | 56        | 22.54                    | 22.53      | 22.78    | 1        |     |
|           |          |            |            | 100     | 0         | 22.58                    | 22.51      | 22.75    | 1        |     |
|           |          |            | 16QAM      | 1       | 1         | 22.52                    | 22.32      | 22.54    | 1        |     |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.86      | 21.69    | 21.82    | 1.5 |



**[ NR Band n41 Conducted Power ]**

NR Band n41\_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |             |             |          | MPR [dB] |       |
|-----------|----------|-------|------------|---------|-----------|--------------------------|----------|-------------|-------------|----------|----------|-------|
|           |          |       |            |         |           | 500202                   | 509400   | 518598      | 527802      | 53700    |          |       |
|           |          |       |            |         |           | 2501.01 MHz              | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |       |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.62                    | 24.25    | 24.15       | 24.04       | 24.42    | 0        |       |
|           |          |       |            | 1       | 12        | 24.64                    | 24.29    | 24.29       | 24.18       | 24.63    | 0        |       |
|           |          |       |            | 1       | 22        | 24.54                    | 24.09    | 24.08       | 24.04       | 24.59    | 0        |       |
|           |          |       |            | 12      | 0         | 24.13                    | 23.84    | 23.72       | 23.66       | 24.06    | 0.5      |       |
|           |          |       |            | 12      | 6         | 24.60                    | 24.23    | 24.18       | 24.13       | 24.58    | 0        |       |
|           |          |       |            | 12      | 12        | 24.17                    | 23.74    | 23.71       | 23.65       | 24.19    | 0.5      |       |
|           |          |       | QPSK       | 24      | 0         | 24.17                    | 23.80    | 23.71       | 23.66       | 24.12    | 0.5      |       |
|           |          |       |            | 1       | 1         | 24.53                    | 24.19    | 24.11       | 23.88       | 24.37    | 0        |       |
|           |          |       |            | 1       | 12        | 24.62                    | 24.22    | 24.18       | 24.16       | 24.73    | 0        |       |
|           |          |       |            | 1       | 22        | 24.34                    | 24.16    | 23.97       | 23.94       | 24.60    | 0        |       |
|           |          |       |            | 12      | 0         | 23.64                    | 23.35    | 23.24       | 23.15       | 23.52    | 1        |       |
|           |          |       |            | 12      | 6         | 24.55                    | 24.21    | 24.12       | 24.09       | 24.52    | 0        |       |
|           |          |       | 16QAM      | 12      | 12        | 23.61                    | 23.23    | 23.18       | 23.13       | 23.63    | 1        |       |
|           |          |       |            | 24      | 0         | 23.67                    | 23.31    | 23.24       | 23.14       | 23.61    | 1        |       |
|           |          |       |            | 1       | 1         | 23.33                    | 22.98    | 22.95       | 22.69       | 23.02    | 1        |       |
|           |          |       |            | CP      | QPSK      | 1                        | 1        | 22.98       | 22.81       | 22.69    | 22.85    | 23.06 |

NR Band n41\_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |             | MPR [dB] |       |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|-------------|----------|-------|
|           |          |       |            |         |           | 500700                   | 509664      | 518598      | 527562      | 536496      |          |       |
|           |          |       |            |         |           | 2503.5 MHz               | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |       |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.61                    | 24.33       | 24.22       | 24.10       | 24.20       | 0        |       |
|           |          |       |            | 1       | 39        | 24.59                    | 24.28       | 24.27       | 24.18       | 24.39       | 0        |       |
|           |          |       |            | 1       | 76        | 24.50                    | 24.21       | 24.08       | 24.11       | 24.50       | 0        |       |
|           |          |       |            | 36      | 0         | 24.24                    | 23.99       | 23.85       | 23.77       | 23.96       | 0.5      |       |
|           |          |       |            | 36      | 21        | 24.64                    | 24.36       | 24.32       | 24.22       | 24.44       | 0        |       |
|           |          |       |            | 36      | 42        | 24.19                    | 23.85       | 23.81       | 23.76       | 24.08       | 0.5      |       |
|           |          |       | QPSK       | 75      | 0         | 24.26                    | 23.96       | 23.84       | 23.78       | 23.99       | 0.5      |       |
|           |          |       |            | 1       | 1         | 24.74                    | 24.52       | 24.02       | 24.05       | 24.19       | 0        |       |
|           |          |       |            | 1       | 39        | 24.45                    | 24.25       | 24.12       | 24.17       | 24.46       | 0        |       |
|           |          |       |            | 1       | 76        | 24.63                    | 24.22       | 24.09       | 24.25       | 24.47       | 0        |       |
|           |          |       |            | 36      | 0         | 23.73                    | 23.48       | 23.35       | 23.25       | 23.44       | 1        |       |
|           |          |       |            | 36      | 21        | 24.65                    | 24.37       | 24.28       | 24.25       | 24.43       | 0        |       |
|           |          |       | 16QAM      | 36      | 42        | 23.72                    | 23.38       | 23.33       | 23.30       | 23.60       | 1        |       |
|           |          |       |            | 75      | 0         | 23.71                    | 23.44       | 23.33       | 23.23       | 23.50       | 1        |       |
|           |          |       |            | 1       | 1         | 23.32                    | 22.89       | 22.83       | 22.79       | 23.03       | 1        |       |
|           |          |       |            | CP      | QPSK      | 1                        | 1           | 22.97       | 23.18       | 22.68       | 22.85    | 22.87 |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204                   | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz              | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.52                    | 24.22       | 24.06       | 23.94       | 24.11       | 0        |
|           |          |       |            | 1       | 26        | 24.52                    | 24.18       | 24.22       | 24.09       | 24.30       | 0        |
|           |          |       |            | 1       | 49        | 24.39                    | 24.01       | 23.94       | 24.02       | 24.43       | 0        |
|           |          |       |            | 25      | 0         | 24.15                    | 23.90       | 23.77       | 23.72       | 23.82       | 0.5      |
|           |          |       |            | 25      | 13        | 24.59                    | 24.27       | 24.20       | 24.20       | 24.37       | 0        |
|           |          |       |            | 25      | 26        | 24.13                    | 23.72       | 23.69       | 23.67       | 23.99       | 0.5      |
|           |          |       |            | 50      | 0         | 24.19                    | 23.85       | 23.75       | 23.74       | 23.94       | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 24.49                    | 24.22       | 24.05       | 24.03       | 24.07       | 0        |
|           |          |       |            | 1       | 26        | 24.55                    | 24.21       | 24.20       | 24.09       | 24.33       | 0        |
|           |          |       |            | 1       | 49        | 24.45                    | 24.05       | 23.88       | 24.03       | 24.40       | 0        |
|           |          |       |            | 25      | 0         | 23.67                    | 23.37       | 23.25       | 23.19       | 23.33       | 1        |
|           |          |       |            | 25      | 13        | 24.58                    | 24.25       | 24.22       | 24.18       | 24.37       | 0        |
|           |          |       |            | 25      | 26        | 23.61                    | 23.22       | 23.20       | 23.18       | 23.52       | 1        |
|           |          |       | 50         | 0       | 23.70     | 23.36                    | 23.25       | 23.23       | 23.44       | 1           |          |
|           |          | 16QAM | 1          | 1       | 23.14     | 23.14                    | 22.82       | 22.62       | 22.79       | 1           |          |
| CP        | QPSK     | 1     | 1          | 23.03   | 22.70     | 22.52                    | 22.54       | 22.68       | 1.5         |             |          |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200                   | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz                 | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.31                    | 23.84       | 23.90       | 23.72       | 23.87    | 0        |
|           |          |       |            | 1       | 39        | 24.59                    | 24.28       | 24.41       | 24.14       | 24.45    | 0        |
|           |          |       |            | 1       | 76        | 24.19                    | 23.96       | 23.72       | 23.86       | 24.36    | 0        |
|           |          |       |            | 36      | 0         | 24.09                    | 23.75       | 23.77       | 23.59       | 23.76    | 0.5      |
|           |          |       |            | 36      | 21        | 24.57                    | 24.26       | 24.30       | 24.10       | 24.37    | 0        |
|           |          |       |            | 36      | 42        | 24.06                    | 23.76       | 23.66       | 23.57       | 24.02    | 0.5      |
|           |          |       |            | 75      | 0         | 24.09                    | 23.80       | 23.76       | 23.63       | 23.92    | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 24.25                    | 23.92       | 23.94       | 23.78       | 23.93    | 0        |
|           |          |       |            | 1       | 39        | 24.33                    | 24.40       | 24.54       | 23.90       | 24.34    | 0        |
|           |          |       |            | 1       | 76        | 24.23                    | 23.92       | 23.84       | 23.85       | 24.38    | 0        |
|           |          |       |            | 36      | 0         | 23.58                    | 23.22       | 23.23       | 23.05       | 23.25    | 1        |
|           |          |       |            | 36      | 21        | 24.56                    | 24.22       | 24.27       | 24.06       | 24.34    | 0        |
|           |          |       |            | 36      | 42        | 23.58                    | 23.28       | 23.18       | 23.09       | 23.52    | 1        |
|           |          |       |            | 75      | 0         | 23.57                    | 23.28       | 23.26       | 23.11       | 23.42    | 1        |
|           |          | 16QAM | 1          | 1       | 23.16     | 22.71                    | 22.70       | 22.55       | 22.77       | 1        |          |
| CP        | QPSK     | 1     | 1          | 22.99   | 22.56     | 22.48                    | 22.49       | 22.52       | 1.5         |          |          |

NR Band n41 \_40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |       |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------|-------------|----------|----------|
|           |          |       |            |         |           | 503202                   | 513468      |       | 523734      | 534000   |          |
|           |          |       |            |         |           | 2516.01 MHz              | 2567.34 MHz |       | 2618.67 MHz | 2670 MHz |          |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.08                    | 23.66       |       | 23.61       | 23.65    | 0        |
|           |          |       |            | 1       | 53        | 24.59                    | 24.31       |       | 24.10       | 24.36    | 0        |
|           |          |       |            | 1       | 104       | 23.95                    | 23.71       |       | 23.57       | 24.10    | 0        |
|           |          |       |            | 50      | 0         | 24.00                    | 23.72       |       | 23.57       | 23.66    | 0.5      |
|           |          |       |            | 50      | 28        | 24.53                    | 24.25       |       | 24.08       | 24.23    | 0        |
|           |          |       |            | 50      | 56        | 24.00                    | 23.67       |       | 23.47       | 23.81    | 0.5      |
|           |          |       |            | 100     | 0         | 24.03                    | 23.77       |       | 23.59       | 23.78    | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 24.16                    | 23.80       |       | 23.68       | 23.58    | 0        |
|           |          |       |            | 1       | 53        | 24.65                    | 24.45       |       | 24.28       | 24.39    | 0        |
|           |          |       |            | 1       | 104       | 24.08                    | 23.63       |       | 23.71       | 24.17    | 0        |
|           |          |       |            | 50      | 0         | 23.48                    | 23.22       |       | 23.04       | 23.13    | 1        |
|           |          |       |            | 50      | 28        | 24.51                    | 24.20       |       | 24.04       | 24.20    | 0        |
|           |          |       |            | 50      | 56        | 23.52                    | 23.20       |       | 22.98       | 23.31    | 1        |
|           |          |       |            | 100     | 0         | 23.53                    | 23.21       |       | 23.04       | 23.26    | 1        |
|           |          | 16QAM | 1          | 1       | 22.89     | 22.48                    |             | 22.50 | 22.58       | 1        |          |
|           |          | CP    | QPSK       | 1       | 1         | 22.51                    | 22.34       |       | 22.20       | 22.36    | 1.5      |

NR Band n41 \_50 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|-------|-------------|----------|
|           |          |       |            |         |           | 504204                   |       | 518598      |       | 532998      |          |
|           |          |       |            |         |           | 2521.02 MHz              |       | 2592.99 MHz |       | 2664.99 MHz |          |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.30                    |       | 23.85       |       | 23.81       | 0        |
|           |          |       |            | 1       | 67        | 24.40                    |       | 24.19       |       | 24.08       | 0        |
|           |          |       |            | 1       | 131       | 24.00                    |       | 23.71       |       | 24.31       | 0        |
|           |          |       |            | 64      | 0         | 23.97                    |       | 23.74       |       | 23.71       | 0.5      |
|           |          |       |            | 64      | 35        | 24.48                    |       | 24.24       |       | 24.19       | 0        |
|           |          |       |            | 64      | 69        | 23.96                    |       | 23.61       |       | 23.84       | 0.5      |
|           |          |       |            | 128     | 0         | 23.97                    |       | 23.73       |       | 23.76       | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 24.35                    |       | 23.79       |       | 23.90       | 0        |
|           |          |       |            | 1       | 67        | 24.49                    |       | 24.28       |       | 24.17       | 0        |
|           |          |       |            | 1       | 131       | 23.96                    |       | 23.83       |       | 24.28       | 0        |
|           |          |       |            | 64      | 0         | 23.48                    |       | 23.24       |       | 23.21       | 1        |
|           |          |       |            | 64      | 35        | 24.49                    |       | 24.23       |       | 24.16       | 0        |
|           |          |       |            | 64      | 69        | 23.46                    |       | 23.11       |       | 23.34       | 1        |
|           |          |       |            | 128     | 0         | 23.47                    |       | 23.23       |       | 23.26       | 1        |
|           |          | 16QAM | 1          | 1       | 23.10     |                          | 22.74 |             | 22.63 | 1           |          |
|           |          | CP    | QPSK       | 1       | 1         | 22.84                    |       | 22.59       |       | 22.47       | 1.5      |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|-------|----------|-------------|
|           |          |       |            |         |           | 505200                   |       | 518598      |       |          | 531996      |
|           |          |       |            |         |           | 2526 MHz                 |       | 2592.99 MHz |       |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.18                    |       | 23.72       |       | 23.71    | 0           |
|           |          |       |            | 1       | 81        | 24.47                    |       | 24.36       |       | 24.23    | 0           |
|           |          |       |            | 1       | 160       | 23.81                    |       | 23.59       |       | 24.22    | 0           |
|           |          |       |            | 81      | 0         | 23.93                    |       | 23.70       |       | 23.78    | 0.5         |
|           |          |       |            | 81      | 41        | 24.49                    |       | 24.20       |       | 24.20    | 0           |
|           |          |       |            | 81      | 81        | 23.89                    |       | 23.53       |       | 23.72    | 0.5         |
|           |          |       |            | 162     | 0         | 23.89                    |       | 23.66       |       | 23.78    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 24.20                    |       | 23.83       |       | 23.77    | 0           |
|           |          |       |            | 1       | 81        | 24.47                    |       | 24.47       |       | 24.05    | 0           |
|           |          |       |            | 1       | 160       | 23.86                    |       | 23.65       |       | 24.27    | 0           |
|           |          |       |            | 81      | 0         | 23.38                    |       | 23.17       |       | 23.26    | 1           |
|           |          |       |            | 81      | 41        | 24.49                    |       | 24.18       |       | 24.18    | 0           |
|           |          |       |            | 81      | 81        | 23.39                    |       | 23.05       |       | 23.24    | 1           |
|           |          |       |            | 162     | 0         | 23.38                    |       | 23.13       |       | 23.25    | 1           |
|           |          | 16QAM | 1          | 1       | 23.07     |                          | 22.62 |             | 22.59 | 1        |             |
| CP        | QPSK     | 1     | 1          | 22.68   |           | 22.45                    |       | 22.43       | 1.5   |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |  |       |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|-------|----------|-------------|
|           |          |       |            |         |           | 507204                   |  |       |       |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz              |  |       |       |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.96                    |  |       |       | 23.46    | 0           |
|           |          |       |            | 1       | 109       | 24.39                    |  |       |       | 24.14    | 0           |
|           |          |       |            | 1       | 215       | 23.64                    |  |       |       | 24.04    | 0           |
|           |          |       |            | 108     | 0         | 23.91                    |  |       |       | 23.64    | 0.5         |
|           |          |       |            | 108     | 55        | 24.38                    |  |       |       | 24.20    | 0           |
|           |          |       |            | 108     | 109       | 23.70                    |  |       |       | 23.71    | 0.5         |
|           |          |       |            | 216     | 0         | 23.82                    |  |       |       | 23.66    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 24.05                    |  |       |       | 23.51    | 0           |
|           |          |       |            | 1       | 109       | 24.41                    |  |       |       | 24.17    | 0           |
|           |          |       |            | 1       | 215       | 23.72                    |  |       |       | 24.07    | 0           |
|           |          |       |            | 108     | 0         | 23.38                    |  |       |       | 23.10    | 1           |
|           |          |       |            | 108     | 55        | 24.35                    |  |       |       | 24.15    | 0           |
|           |          |       |            | 108     | 109       | 23.19                    |  |       |       | 23.22    | 1           |
|           |          |       |            | 216     | 0         | 23.32                    |  |       |       | 23.19    | 1           |
|           |          | 16QAM | 1          | 1       | 22.90     |                          |  |       | 22.34 | 1        |             |
| CP        | QPSK     | 1     | 1          | 22.49   |           |                          |  | 21.99 | 1.5   |          |             |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |  |  |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|--|-------|----------|-------------|
|           |          |       |            |         |           | 508200                   |  |  |       |          | 528996      |
|           |          |       |            |         |           | 2541 MHz                 |  |  |       |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.82                    |  |  |       | 23.39    | 0           |
|           |          |       |            | 1       | 123       | 24.28                    |  |  |       | 24.09    | 0           |
|           |          |       |            | 1       | 243       | 23.56                    |  |  |       | 23.89    | 0           |
|           |          |       |            | 120     | 0         | 23.78                    |  |  |       | 23.58    | 0.5         |
|           |          |       |            | 120     | 63        | 24.31                    |  |  |       | 24.10    | 0           |
|           |          |       |            | 120     | 125       | 23.61                    |  |  |       | 23.59    | 0.5         |
|           |          |       |            | 243     | 0         | 23.73                    |  |  |       | 23.58    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 23.87                    |  |  |       | 23.43    | 0           |
|           |          |       |            | 1       | 123       | 24.31                    |  |  |       | 24.10    | 0           |
|           |          |       |            | 1       | 243       | 23.64                    |  |  |       | 23.92    | 0           |
|           |          |       |            | 120     | 0         | 23.26                    |  |  |       | 23.04    | 1           |
|           |          |       |            | 120     | 63        | 24.26                    |  |  |       | 24.07    | 0           |
|           |          |       |            | 120     | 125       | 23.09                    |  |  |       | 23.12    | 1           |
|           |          |       |            | 243     | 0         | 23.20                    |  |  |       | 23.04    | 1           |
|           |          | 16QAM | 1          | 1       | 22.75     |                          |  |  | 22.27 | 1        |             |
|           |          | CP    | QPSK       | 1       | 1         | 22.33                    |  |  |       | 21.87    | 1.5         |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |  | MPR [dB] |     |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|--|----------|-----|
|           |          |       |            |         |           |                          |       | 518598      |  |          |     |
|           |          |       |            |         |           |                          |       | 2592.99 MHz |  |          |     |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                          |       | 23.34       |  |          | 0   |
|           |          |       |            | 1       | 137       |                          |       | 24.21       |  |          | 0   |
|           |          |       |            | 1       | 271       |                          |       | 23.30       |  |          | 0   |
|           |          |       |            | 135     | 0         |                          |       | 23.55       |  |          | 0.5 |
|           |          |       |            | 135     | 67        |                          |       | 24.14       |  |          | 0   |
|           |          |       |            | 135     | 138       |                          |       | 23.42       |  |          | 0.5 |
|           |          |       |            | 270     | 0         |                          |       | 23.49       |  |          | 0.5 |
|           |          |       | QPSK       | 1       | 1         |                          |       | 23.40       |  |          | 0   |
|           |          |       |            | 1       | 137       |                          |       | 24.29       |  |          | 0   |
|           |          |       |            | 1       | 271       |                          |       | 23.37       |  |          | 0   |
|           |          |       |            | 135     | 0         |                          |       | 23.05       |  |          | 1   |
|           |          |       |            | 135     | 67        |                          |       | 24.09       |  |          | 0   |
|           |          |       |            | 135     | 138       |                          |       | 22.92       |  |          | 1   |
|           |          |       |            | 270     | 0         |                          |       | 22.96       |  |          | 1   |
|           |          | 16QAM | 1          | 1       |           |                          | 22.28 |             |  | 1        |     |
|           |          | CP    | QPSK       | 1       | 1         |                          |       | 21.87       |  |          | 1.5 |

**[ NR Band n66 Conducted Power]**

NR Band n66 \_5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 342500                   | 346820     | 351160     | 355500     |          |
|           |          |            |            |         |           | 1712.5 MHz               | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.36                    | 23.88      | 24.56      | 24.44      | 0        |
|           |          |            |            | 1       | 13        | 23.42                    | 23.99      | 24.56      | 24.50      | 0        |
|           |          |            |            | 1       | 23        | 23.50                    | 24.05      | 24.52      | 24.47      | 0        |
|           |          |            |            | 12      | 0         | 22.92                    | 23.54      | 24.20      | 24.10      | 0.5      |
|           |          |            |            | 12      | 7         | 23.52                    | 24.00      | 24.60      | 24.51      | 0        |
|           |          |            |            | 12      | 13        | 22.99                    | 23.52      | 24.11      | 24.01      | 0.5      |
|           |          |            |            | 25      | 0         | 22.97                    | 23.58      | 24.16      | 24.08      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.28                    | 23.90      | 24.60      | 24.11      | 0        |
|           |          |            |            | 1       | 13        | 23.35                    | 23.94      | 24.58      | 24.11      | 0        |
|           |          |            |            | 1       | 23        | 23.40                    | 24.02      | 24.52      | 24.02      | 0        |
|           |          |            |            | 12      | 0         | 22.36                    | 23.01      | 23.70      | 23.61      | 1        |
|           |          |            |            | 12      | 7         | 23.47                    | 24.04      | 24.64      | 24.56      | 0        |
|           |          |            |            | 12      | 13        | 22.50                    | 23.06      | 23.67      | 23.53      | 1        |
|           |          |            |            | 25      | 0         | 22.47                    | 23.07      | 23.68      | 23.61      | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.35                    | 22.98      | 23.63      | 23.06      | 1        |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.93      | 22.49      | 23.08      | 22.86    |

NR Band n66 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |          |          | MPR [dB] |     |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|----------|-----|
|           |          |            |            |         |           | 343000                   | 347000   | 351000   | 355000   |          |     |
|           |          |            |            |         |           | 1715 MHz                 | 1735 MHz | 1755 MHz | 1775 MHz |          |     |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.28                    | 23.82    | 24.40    | 24.33    | 0        |     |
|           |          |            |            | 1       | 26        | 23.44                    | 23.97    | 24.41    | 24.25    | 0        |     |
|           |          |            |            | 1       | 50        | 23.58                    | 24.03    | 24.29    | 24.10    | 0        |     |
|           |          |            |            | 25      | 0         | 22.81                    | 23.49    | 24.08    | 23.95    | 0.5      |     |
|           |          |            |            | 25      | 14        | 23.52                    | 24.05    | 24.51    | 24.43    | 0        |     |
|           |          |            |            | 25      | 27        | 23.17                    | 23.67    | 23.99    | 23.96    | 0.5      |     |
|           |          |            |            | 50      | 0         | 22.99                    | 23.55    | 24.01    | 23.93    | 0.5      |     |
|           |          |            | QPSK       | 1       | 1         | 23.24                    | 23.66    | 23.98    | 23.79    | 0        |     |
|           |          |            |            | 1       | 26        | 23.37                    | 23.80    | 24.18    | 23.90    | 0        |     |
|           |          |            |            | 1       | 50        | 23.49                    | 23.80    | 24.19    | 23.81    | 0        |     |
|           |          |            |            | 25      | 0         | 22.31                    | 22.97    | 23.55    | 23.50    | 1        |     |
|           |          |            |            | 25      | 14        | 23.50                    | 24.06    | 24.52    | 24.42    | 0        |     |
|           |          |            |            | 25      | 27        | 22.63                    | 23.14    | 23.54    | 23.45    | 1        |     |
|           |          |            |            | 50      | 0         | 22.48                    | 23.07    | 23.55    | 23.48    | 1        |     |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.22    | 22.55    | 23.14    | 22.85    | 1   |
|           |          |            | CP         | QPSK    | 1         | 1                        | 21.81    | 22.30    | 22.71    | 22.50    | 1.5 |

NR Band n66 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 343500                   | 347160     | 350820     | 354500     |          |
|           |          |            |            |         |           | 1717.5 MHz               | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 22.88                    | 23.43      | 23.77      | 23.56      | 0        |
|           |          |            |            | 1       | 40        | 23.18                    | 23.72      | 23.83      | 23.60      | 0        |
|           |          |            |            | 1       | 77        | 23.29                    | 23.79      | 23.75      | 23.44      | 0        |
|           |          |            |            | 36      | 0         | 22.51                    | 23.06      | 23.57      | 23.47      | 0.5      |
|           |          |            |            | 36      | 22        | 23.17                    | 23.72      | 24.03      | 23.97      | 0        |
|           |          |            |            | 36      | 43        | 22.85                    | 23.35      | 23.60      | 23.55      | 0.5      |
|           |          |            |            | 75      | 0         | 22.69                    | 23.22      | 23.55      | 23.56      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 22.51                    | 23.10      | 23.34      | 23.31      | 0        |
|           |          |            |            | 1       | 40        | 22.77                    | 23.45      | 23.52      | 23.53      | 0        |
|           |          |            |            | 1       | 77        | 23.07                    | 23.46      | 23.34      | 23.33      | 0        |
|           |          |            |            | 36      | 0         | 22.01                    | 22.61      | 23.06      | 23.01      | 1        |
|           |          |            |            | 36      | 22        | 23.19                    | 23.73      | 24.08      | 24.02      | 0        |
|           |          |            |            | 36      | 43        | 22.38                    | 22.83      | 23.07      | 23.02      | 1        |
|           |          |            | 75         | 0       | 22.18     | 22.78                    | 23.12      | 23.04      | 1          |          |
|           |          |            | 16QAM      | 1       | 1         | 21.74                    | 22.01      | 22.44      | 22.37      | 1        |
| CP        | QPSK     | 1          | 1          | 21.36   | 21.79     | 21.89                    | 21.84      | 1.5        |            |          |

NR Band n66 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |       |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|-------|----------|----------|
|           |          |            |            |         |           | 344000                   | 349000   |       | 354000   |          |
|           |          |            |            |         |           | 1720 MHz                 | 1745 MHz |       | 1770 MHz |          |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.21                    | 23.97    |       | 24.28    | 0        |
|           |          |            |            | 1       | 53        | 23.66                    | 24.47    |       | 24.25    | 0        |
|           |          |            |            | 1       | 104       | 23.63                    | 24.34    |       | 24.01    | 0        |
|           |          |            |            | 50      | 0         | 22.94                    | 23.84    |       | 24.01    | 0.5      |
|           |          |            |            | 50      | 28        | 23.81                    | 24.56    |       | 24.54    | 0        |
|           |          |            |            | 50      | 56        | 23.41                    | 24.12    |       | 24.05    | 0.5      |
|           |          |            |            | 100     | 0         | 23.16                    | 24.00    |       | 24.02    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.07                    | 23.56    |       | 23.84    | 0        |
|           |          |            |            | 1       | 53        | 23.35                    | 24.06    |       | 24.02    | 0        |
|           |          |            |            | 1       | 104       | 23.57                    | 24.04    |       | 23.83    | 0        |
|           |          |            |            | 50      | 0         | 22.46                    | 23.33    |       | 23.54    | 1        |
|           |          |            |            | 50      | 28        | 23.83                    | 24.57    |       | 24.61    | 0        |
|           |          |            |            | 50      | 56        | 22.93                    | 23.67    |       | 23.54    | 1        |
|           |          |            | 100        | 0       | 22.64     | 23.55                    |          | 23.58 | 1        |          |
|           |          |            | 16QAM      | 1       | 1         | 22.14                    | 22.65    |       | 22.97    | 1        |
| CP        | QPSK     | 1          | 1          | 21.87   | 22.30     |                          | 22.45    | 1.5   |          |          |

NR Band n66 \_ 25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |     |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|-----|------------|----------|
|           |          |            |            |         |           | 344500                   | 349000   |     | 353500     |          |
|           |          |            |            |         |           | 1722.5 MHz               | 1745 MHz |     | 1767.5 MHz |          |
| 25 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.07                    | 23.84    |     | 24.35      | 0        |
|           |          |            |            | 1       | 66        | 23.76                    | 24.49    |     | 24.56      | 0        |
|           |          |            |            | 1       | 131       | 23.77                    | 24.34    |     | 24.26      | 0        |
|           |          |            |            | 64      | 0         | 22.94                    | 23.79    |     | 24.00      | 0.5      |
|           |          |            |            | 64      | 35        | 23.72                    | 24.46    |     | 24.57      | 0        |
|           |          |            |            | 64      | 69        | 23.35                    | 24.07    |     | 24.02      | 0.5      |
|           |          |            |            | 128     | 0         | 23.15                    | 23.93    |     | 23.99      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.06                    | 23.81    |     | 24.29      | 0        |
|           |          |            |            | 1       | 66        | 23.73                    | 24.47    |     | 24.54      | 0        |
|           |          |            |            | 1       | 131       | 23.73                    | 24.30    |     | 24.27      | 0        |
|           |          |            |            | 64      | 0         | 22.49                    | 23.24    |     | 23.57      | 1        |
|           |          |            |            | 64      | 35        | 23.76                    | 24.53    |     | 24.60      | 0        |
|           |          |            |            | 64      | 69        | 22.95                    | 23.61    |     | 23.51      | 1        |
|           |          |            |            | 128     | 0         | 22.67                    | 23.48    |     | 23.58      | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.22                    | 22.95    |     | 23.44      | 1        |
| CP        | QPSK     | 1          | 1          | 21.76   | 22.45     |                          | 22.89    | 1.5 |            |          |

NR Band n66 \_ 30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |       |     |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------|-----|----------|----------|
|           |          |            |            |         |           | 345000                   |       |     | 353000   |          |
|           |          |            |            |         |           | 1725 MHz                 |       |     | 1765 MHz |          |
| 30 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.07                    |       |     | 24.13    | 0        |
|           |          |            |            | 1       | 80        | 23.59                    |       |     | 24.15    | 0        |
|           |          |            |            | 1       | 158       | 23.57                    |       |     | 23.74    | 0        |
|           |          |            |            | 80      | 0         | 23.12                    |       |     | 24.03    | 0.5      |
|           |          |            |            | 80      | 40        | 23.95                    |       |     | 24.62    | 0        |
|           |          |            |            | 80      | 80        | 23.64                    |       |     | 24.01    | 0.5      |
|           |          |            |            | 160     | 0         | 23.36                    |       |     | 24.05    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.04                    |       |     | 23.76    | 0        |
|           |          |            |            | 1       | 80        | 23.45                    |       |     | 24.13    | 0        |
|           |          |            |            | 1       | 158       | 23.45                    |       |     | 23.66    | 0        |
|           |          |            |            | 80      | 0         | 22.59                    |       |     | 23.55    | 1        |
|           |          |            |            | 80      | 40        | 23.94                    |       |     | 24.62    | 0        |
|           |          |            |            | 80      | 80        | 23.14                    |       |     | 23.54    | 1        |
|           |          |            |            | 160     | 0         | 22.87                    |       |     | 23.54    | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.01                    |       |     | 22.83    | 1        |
| CP        | QPSK     | 1          | 1          | 21.53   |           |                          | 22.34 | 1.5 |          |          |



NR Band n66 \_ 40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |          |   | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|---|----------|
|           |          |            |            |         |           |                          | 349000   |   |          |
|           |          |            |            |         |           |                          | 1745 MHz |   |          |
| 40 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                          | 23.35    |   | 0        |
|           |          |            |            | 1       | 108       |                          | 23.98    |   | 0        |
|           |          |            |            | 1       | 214       |                          | 23.62    |   | 0        |
|           |          |            |            | 108     | 0         |                          | 23.59    |   | 0.5      |
|           |          |            |            | 108     | 54        |                          | 24.47    |   | 0        |
|           |          |            |            | 108     | 108       |                          | 24.07    |   | 0.5      |
|           |          |            |            | 216     | 0         |                          | 23.81    |   | 0.5      |
|           |          |            | QPSK       | 1       | 1         |                          | 23.06    |   | 0        |
|           |          |            |            | 1       | 108       |                          | 24.03    |   | 0        |
|           |          |            |            | 1       | 214       |                          | 23.48    |   | 0        |
|           |          |            |            | 108     | 0         |                          | 23.10    |   | 1        |
|           |          |            |            | 108     | 54        |                          | 24.51    |   | 0        |
|           |          |            |            | 108     | 108       |                          | 23.61    |   | 1        |
|           |          |            |            | 216     | 0         |                          | 23.29    |   | 1        |
|           |          | 16QAM      | 1          | 1       |           | 22.02                    |          | 1 |          |
| CP        | QPSK     | 1          | 1          |         | 21.54     |                          | 1.5      |   |          |

**[ NR Band n71 Conducted Power]**

NR Band n71 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power [dBm] |           |           | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|-----------|----------|
|           |          |            |            |         |           | 133100                   | 136100    | 139100    |          |
|           |          |            |            |         |           | 665.5 MHz                | 680.5 MHz | 695.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.78                    | 23.99     | 24.55     | 0        |
|           |          |            |            | 1       | 13        | 23.82                    | 24.03     | 24.57     | 0        |
|           |          |            |            | 1       | 23        | 23.78                    | 24.06     | 24.64     | 0        |
|           |          |            |            | 12      | 0         | 23.44                    | 23.67     | 24.26     | 0.5      |
|           |          |            |            | 12      | 7         | 23.87                    | 24.07     | 24.67     | 0        |
|           |          |            |            | 12      | 13        | 23.58                    | 23.73     | 24.31     | 0.5      |
|           |          |            |            | 25      | 0         | 23.55                    | 23.78     | 24.30     | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.86                    | 24.02     | 24.63     | 0        |
|           |          |            |            | 1       | 13        | 23.89                    | 24.07     | 24.60     | 0        |
|           |          |            |            | 1       | 23        | 23.86                    | 24.11     | 24.69     | 0        |
|           |          |            |            | 12      | 0         | 22.97                    | 23.23     | 23.79     | 1        |
|           |          |            |            | 12      | 7         | 23.92                    | 24.15     | 24.71     | 0        |
|           |          |            |            | 12      | 13        | 23.14                    | 23.24     | 23.81     | 1        |
|           |          |            |            | 25      | 0         | 23.05                    | 23.24     | 23.81     | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.95                    | 23.17     | 23.74     | 1        |
|           |          | CP         | QPSK       | 1       | 1         | 22.48                    | 22.65     | 23.25     | 1.5      |

NR Band n71 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |           |         | MPR [dB] |     |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|---------|----------|-----|
|           |          |            |            |         |           | 133600                   | 136100    | 138600  |          |     |
|           |          |            |            |         |           | 668 MHz                  | 680.5 MHz | 693 MHz |          |     |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.62                    | 23.82     | 24.19   | 0        |     |
|           |          |            |            | 1       | 26        | 23.67                    | 23.91     | 24.35   | 0        |     |
|           |          |            |            | 1       | 50        | 23.70                    | 24.03     | 24.37   | 0        |     |
|           |          |            |            | 25      | 0         | 23.22                    | 23.50     | 23.93   | 0.5      |     |
|           |          |            |            | 25      | 14        | 23.72                    | 23.97     | 24.38   | 0        |     |
|           |          |            |            | 25      | 27        | 23.43                    | 23.65     | 24.09   | 0.5      |     |
|           |          |            |            | 50      | 0         | 23.28                    | 23.56     | 24.02   | 0.5      |     |
|           |          |            | QPSK       | 1       | 1         | 23.67                    | 23.83     | 24.18   | 0        |     |
|           |          |            |            | 1       | 26        | 23.74                    | 23.95     | 24.39   | 0        |     |
|           |          |            |            | 1       | 50        | 23.79                    | 24.08     | 24.43   | 0        |     |
|           |          |            |            | 25      | 0         | 22.71                    | 23.04     | 23.48   | 1        |     |
|           |          |            |            | 25      | 14        | 23.77                    | 23.97     | 24.45   | 0        |     |
|           |          |            |            | 25      | 27        | 22.93                    | 23.18     | 23.64   | 1        |     |
|           |          |            |            | 50      | 0         | 22.81                    | 23.07     | 23.53   | 1        |     |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.77     | 22.95   | 23.34    | 1   |
|           |          |            | CP         | QPSK    | 1         | 1                        | 22.22     | 22.45   | 22.75    | 1.5 |

NR Band n71 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |           | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------|-----------|----------|
|           |          |            |            |         |           | 134100                   |       | 138100    |          |
|           |          |            |            |         |           | 670.5 MHz                |       | 690.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.70                    |       | 24.10     | 0        |
|           |          |            |            | 1       | 40        | 23.84                    |       | 24.38     | 0        |
|           |          |            |            | 1       | 77        | 23.98                    |       | 24.47     | 0        |
|           |          |            |            | 36      | 0         | 23.35                    |       | 23.97     | 0.5      |
|           |          |            |            | 36      | 22        | 23.90                    |       | 24.41     | 0        |
|           |          |            |            | 36      | 43        | 23.63                    |       | 24.26     | 0.5      |
|           |          |            |            | 75      | 0         | 23.48                    |       | 24.13     | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.76                    |       | 24.09     | 0        |
|           |          |            |            | 1       | 40        | 23.90                    |       | 24.39     | 0        |
|           |          |            |            | 1       | 77        | 23.98                    |       | 24.56     | 0        |
|           |          |            |            | 36      | 0         | 22.92                    |       | 23.46     | 1        |
|           |          |            |            | 36      | 22        | 23.96                    |       | 24.53     | 0        |
|           |          |            |            | 36      | 43        | 23.18                    |       | 23.76     | 1        |
|           |          |            |            | 75      | 0         | 23.06                    |       | 23.64     | 1        |
|           |          | 16QAM      | 1          | 1       | 22.83     |                          | 23.15 | 1         |          |
| CP        | QPSK     | 1          | 1          | 22.30   |           | 22.63                    | 1.5   |           |          |

NR Band n71 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |           |   | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-----------|---|----------|
|           |          |            |            |         |           |                          | 136100    |   |          |
|           |          |            |            |         |           |                          | 680.5 MHz |   |          |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                          | 23.72     |   | 0        |
|           |          |            |            | 1       | 53        |                          | 24.06     |   | 0        |
|           |          |            |            | 1       | 104       |                          | 24.29     |   | 0        |
|           |          |            |            | 50      | 0         |                          | 23.53     |   | 0.5      |
|           |          |            |            | 50      | 28        |                          | 24.11     |   | 0        |
|           |          |            |            | 50      | 56        |                          | 23.86     |   | 0.5      |
|           |          |            |            | 100     | 0         |                          | 23.70     |   | 0.5      |
|           |          |            | QPSK       | 1       | 1         |                          | 23.78     |   | 0        |
|           |          |            |            | 1       | 53        |                          | 24.12     |   | 0        |
|           |          |            |            | 1       | 104       |                          | 24.31     |   | 0        |
|           |          |            |            | 50      | 0         |                          | 23.02     |   | 1        |
|           |          |            |            | 50      | 28        |                          | 24.15     |   | 0        |
|           |          |            |            | 50      | 56        |                          | 23.37     |   | 1        |
|           |          |            |            | 100     | 0         |                          | 23.21     |   | 1        |
|           |          | 16QAM      | 1          | 1       |           | 22.82                    |           | 1 |          |
| CP        | QPSK     | 1          | 1          |         | 22.29     |                          | 1.5       |   |          |

NR Band n71 at 20 MHz Bandwidth does not support three non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

**[ NR Band n77 Conducted Power]**

NR Band n77\_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |          |          |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|----------|----------|----------|
|           |          |            |            |         |           | 647000                   | 650600   | 654200   | 657800   | 661400   | 665000   |          |
|           |          |            |            |         |           | 3705 MHz                 | 3759 MHz | 3813 MHz | 3867 MHz | 3921 MHz | 3975 MHz |          |
| 10 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.93                    | 24.27    | 23.88    | 23.65    | 24.08    | 24.33    | 0        |
|           |          |            |            | 1       | 12        | 24.12                    | 24.34    | 23.98    | 23.75    | 24.24    | 24.48    | 0        |
|           |          |            |            | 1       | 22        | 23.99                    | 24.23    | 23.81    | 23.65    | 24.17    | 24.37    | 0        |
|           |          |            |            | 12      | 0         | 23.57                    | 23.84    | 23.43    | 23.23    | 23.74    | 23.97    | 0.5      |
|           |          |            |            | 12      | 6         | 24.06                    | 24.32    | 23.91    | 23.71    | 24.22    | 24.46    | 0        |
|           |          |            |            | 12      | 12        | 23.57                    | 23.82    | 23.42    | 23.21    | 23.76    | 23.97    | 0.5      |
|           |          |            |            | 24      | 0         | 23.54                    | 23.84    | 23.44    | 23.24    | 23.76    | 23.98    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.93                    | 24.24    | 23.81    | 23.57    | 24.03    | 24.31    | 0        |
|           |          |            |            | 1       | 12        | 24.02                    | 24.28    | 23.84    | 23.76    | 24.21    | 24.33    | 0        |
|           |          |            |            | 1       | 22        | 23.95                    | 24.17    | 23.76    | 23.59    | 24.14    | 24.31    | 0        |
|           |          |            |            | 12      | 0         | 23.08                    | 23.35    | 22.95    | 22.75    | 23.24    | 23.46    | 1        |
|           |          |            |            | 12      | 6         | 24.07                    | 24.35    | 23.93    | 23.70    | 24.24    | 24.46    | 0        |
|           |          |            |            | 12      | 12        | 23.07                    | 23.33    | 22.93    | 22.77    | 23.27    | 23.41    | 1        |
|           |          |            |            | 24      | 0         | 23.04                    | 23.34    | 22.95    | 22.74    | 23.25    | 23.47    | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.64                    | 22.96    | 22.81    | 22.69    | 23.14    | 23.40    | 1        |
| CP        | QPSK     | 1          | 1          | 22.55   | 22.86     | 22.43                    | 22.20    | 22.65    | 22.90    | 1.5      |          |          |

NR Band n77\_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |            |             |            |            |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|-------------|------------|------------|-------------|----------|
|           |          |            |            |         |           | 647166                   | 650700     | 654232      | 657766     | 661300     | 664832      |          |
|           |          |            |            |         |           | 3707.5 MHz               | 3760.5 MHz | 3813.49 MHz | 3866.5 MHz | 3919.5 MHz | 3972.49 MHz |          |
| 15 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 24.01                    | 24.30      | 23.87       | 23.61      | 24.01      | 24.39       | 0        |
|           |          |            |            | 1       | 18        | 24.12                    | 24.34      | 23.90       | 23.68      | 24.15      | 24.46       | 0        |
|           |          |            |            | 1       | 36        | 24.08                    | 24.21      | 23.78       | 23.60      | 24.14      | 24.44       | 0        |
|           |          |            |            | 18      | 0         | 23.59                    | 23.85      | 23.43       | 23.21      | 23.68      | 23.98       | 0.5      |
|           |          |            |            | 18      | 9         | 24.15                    | 24.35      | 23.93       | 23.70      | 24.15      | 24.47       | 0        |
|           |          |            |            | 18      | 18        | 23.69                    | 23.82      | 23.41       | 23.21      | 23.73      | 23.99       | 0.5      |
|           |          |            |            | 36      | 0         | 23.64                    | 23.86      | 23.42       | 23.24      | 23.69      | 23.96       | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 24.01                    | 24.23      | 23.82       | 23.55      | 24.01      | 24.34       | 0        |
|           |          |            |            | 1       | 18        | 24.14                    | 24.26      | 23.82       | 23.59      | 24.10      | 24.45       | 0        |
|           |          |            |            | 1       | 36        | 24.03                    | 24.15      | 23.74       | 23.55      | 24.13      | 24.39       | 0        |
|           |          |            |            | 18      | 0         | 23.13                    | 23.37      | 22.95       | 22.75      | 23.18      | 23.47       | 1        |
|           |          |            |            | 18      | 9         | 24.15                    | 24.35      | 23.91       | 23.70      | 24.20      | 24.46       | 0        |
|           |          |            |            | 18      | 18        | 23.21                    | 23.33      | 22.94       | 22.73      | 23.26      | 23.49       | 1        |
|           |          |            |            | 36      | 0         | 23.15                    | 23.38      | 22.95       | 22.74      | 23.19      | 23.46       | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.91                    | 23.18      | 22.76       | 22.54      | 22.99      | 23.32       | 1        |
| CP        | QPSK     | 1          | 1          | 22.52   | 22.86     | 22.43                    | 22.18      | 22.59       | 22.97      | 1.5        |             |          |

NR Band n77\_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |          |          |          |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|----------|-------------|----------|
|           |          |            |            |         |           | 347334                   | 650800   | 654266   | 657733   | 661200   | 664666      |          |
|           |          |            |            |         |           | 3710 MHz                 | 3762 MHz | 3814 MHz | 3866 MHz | 3918 MHz | 3969.99 MHz |          |
| 20 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 24.00                    | 24.26    | 23.82    | 23.55    | 23.87    | 24.29       | 0        |
|           |          |            |            | 1       | 26        | 24.16                    | 24.33    | 23.88    | 23.66    | 24.10    | 24.40       | 0        |
|           |          |            |            | 1       | 49        | 24.09                    | 24.11    | 23.74    | 23.53    | 24.08    | 24.30       | 0        |
|           |          |            |            | 25      | 0         | 23.66                    | 23.90    | 23.47    | 23.20    | 23.60    | 23.96       | 0.5      |
|           |          |            |            | 25      | 13        | 24.17                    | 24.34    | 23.93    | 23.69    | 24.14    | 24.47       | 0        |
|           |          |            |            | 25      | 26        | 23.69                    | 23.83    | 23.40    | 23.18    | 23.70    | 23.98       | 0.5      |
|           |          |            |            | 50      | 0         | 23.67                    | 23.87    | 23.46    | 23.21    | 23.66    | 23.98       | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.94                    | 24.24    | 23.77    | 23.51    | 23.85    | 24.25       | 0        |
|           |          |            |            | 1       | 26        | 24.08                    | 24.26    | 23.82    | 23.57    | 24.07    | 24.36       | 0        |
|           |          |            |            | 1       | 49        | 24.03                    | 24.07    | 23.69    | 23.48    | 24.02    | 24.31       | 0        |
|           |          |            |            | 25      | 0         | 23.16                    | 23.40    | 22.98    | 22.71    | 23.09    | 23.48       | 1        |
|           |          |            |            | 25      | 13        | 24.18                    | 24.35    | 23.94    | 23.70    | 24.16    | 24.49       | 0        |
|           |          |            |            | 25      | 26        | 23.20                    | 23.30    | 22.91    | 22.68    | 23.17    | 23.47       | 1        |
|           |          |            | 50         | 0       | 23.21     | 23.38                    | 22.97    | 22.72    | 23.19    | 23.47    | 1           |          |
|           |          |            | 16QAM      | 1       | 1         | 22.79                    | 23.22    | 22.59    | 22.32    | 22.85    | 23.11       | 1        |
| CP        | QPSK     | 1          | 1          | 22.57   | 22.85     | 22.42                    | 22.12    | 22.46    | 22.87    | 1.5      |             |          |

NR Band n77\_ 25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |            |            |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|------------|------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 647500                   | 650900     | 654300     | 657700     | 661100     | 664500     |          |
|           |          |            |            |         |           | 3712.5 MHz               | 3763.5 MHz | 3814.5 MHz | 3865.5 MHz | 3916.5 MHz | 3967.5 MHz |          |
| 25 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.91                    | 24.25      | 23.78      | 23.42      | 23.76      | 24.14      | 0        |
|           |          |            |            | 1       | 32        | 24.26                    | 24.38      | 23.98      | 23.78      | 24.18      | 24.44      | 0        |
|           |          |            |            | 1       | 63        | 24.09                    | 24.04      | 23.68      | 23.45      | 23.97      | 24.28      | 0        |
|           |          |            |            | 32      | 0         | 23.70                    | 23.91      | 23.47      | 23.15      | 23.52      | 23.92      | 0.5      |
|           |          |            |            | 32      | 16        | 24.26                    | 24.36      | 23.94      | 23.71      | 24.11      | 24.49      | 0        |
|           |          |            |            | 32      | 32        | 23.77                    | 23.80      | 23.40      | 23.13      | 23.66      | 23.92      | 0.5      |
|           |          |            |            | 64      | 0         | 23.75                    | 23.86      | 23.44      | 23.15      | 23.60      | 23.96      | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.88                    | 24.24      | 23.76      | 23.45      | 23.75      | 24.20      | 0        |
|           |          |            |            | 1       | 32        | 24.46                    | 24.48      | 24.01      | 23.52      | 24.12      | 24.47      | 0        |
|           |          |            |            | 1       | 63        | 24.04                    | 24.01      | 23.60      | 23.44      | 23.97      | 24.25      | 0        |
|           |          |            |            | 32      | 0         | 23.20                    | 23.41      | 22.96      | 22.66      | 23.02      | 23.42      | 1        |
|           |          |            |            | 32      | 16        | 24.26                    | 24.38      | 23.95      | 23.70      | 24.12      | 24.49      | 0        |
|           |          |            |            | 32      | 32        | 23.30                    | 23.31      | 22.88      | 22.65      | 23.14      | 23.42      | 1        |
|           |          |            | 64         | 0       | 23.24     | 23.36                    | 22.93      | 22.69      | 23.09      | 23.48      | 1          |          |
|           |          |            | 16QAM      | 1       | 1         | 22.58                    | 22.94      | 22.47      | 22.27      | 22.56      | 22.83      | 1        |
| CP        | QPSK     | 1          | 1          | 22.52   | 22.82     | 22.37                    | 22.00      | 22.31      | 22.76      | 1.5        |            |          |

NR Band n77\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |             |             |          |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|-------------|-------------|----------|-------------|----------|
|           |          |            |            |         |           | 647666                   | 651000   | 654334      | 657666      | 661000   | 664334      |          |
|           |          |            |            |         |           | 3714.99 MHz              | 3765 MHz | 3815.01 MHz | 3864.99 MHz | 3915 MHz | 3965.01 MHz |          |
| 30 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.89                    | 24.05    | 23.55       | 23.51       | 23.60    | 24.03       | 0        |
|           |          |            |            | 1       | 39        | 24.33                    | 24.18    | 23.76       | 23.86       | 24.01    | 24.38       | 0        |
|           |          |            |            | 1       | 76        | 24.09                    | 23.77    | 23.42       | 23.50       | 23.86    | 24.18       | 0        |
|           |          |            |            | 36      | 0         | 23.70                    | 23.73    | 23.30       | 23.29       | 23.46    | 23.84       | 0.5      |
|           |          |            |            | 36      | 21        | 24.31                    | 24.17    | 23.77       | 23.84       | 24.04    | 24.43       | 0        |
|           |          |            |            | 36      | 42        | 23.78                    | 23.59    | 23.20       | 23.25       | 23.58    | 23.88       | 0.5      |
|           |          |            |            | 75      | 0         | 23.78                    | 23.68    | 23.25       | 23.31       | 23.56    | 23.89       | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.84                    | 24.02    | 23.53       | 23.47       | 23.53    | 23.97       | 0        |
|           |          |            |            | 1       | 39        | 24.34                    | 24.15    | 23.73       | 23.79       | 24.01    | 24.38       | 0        |
|           |          |            |            | 1       | 76        | 24.03                    | 23.72    | 23.45       | 23.48       | 23.82    | 24.17       | 0        |
|           |          |            |            | 36      | 0         | 23.20                    | 23.24    | 22.79       | 22.79       | 22.96    | 23.36       | 1        |
|           |          |            |            | 36      | 21        | 24.30                    | 24.19    | 23.78       | 23.84       | 24.05    | 24.44       | 0        |
|           |          |            |            | 36      | 42        | 23.27                    | 23.09    | 22.69       | 22.75       | 23.10    | 23.42       | 1        |
|           |          |            |            | 75      | 0         | 23.31                    | 23.18    | 22.75       | 22.81       | 23.03    | 23.42       | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.64                    | 22.71    | 22.22       | 22.22       | 22.47    | 22.84       | 1        |
| CP        | QPSK     | 1          | 1          | 22.48   | 22.56     | 22.16                    | 22.15    | 22.20       | 22.56       | 1.5      |             |          |

NR Band n77\_40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |          |          |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|----------|----------|----------|----------|----------|----------|
|           |          |            |            |         |           | 648000                   | 651200   | 654400   | 657600   | 660800   | 664000   |          |
|           |          |            |            |         |           | 3720 MHz                 | 3768 MHz | 3816 MHz | 3864 MHz | 3912 MHz | 3960 MHz |          |
| 40 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.58                    | 23.89    | 23.42    | 23.29    | 23.41    | 23.86    | 0        |
|           |          |            |            | 1       | 53        | 24.30                    | 24.24    | 23.87    | 23.86    | 24.07    | 24.46    | 0        |
|           |          |            |            | 1       | 104       | 23.84                    | 23.58    | 23.23    | 23.30    | 23.75    | 24.00    | 0        |
|           |          |            |            | 50      | 0         | 23.59                    | 23.70    | 23.23    | 23.21    | 23.42    | 23.84    | 0.5      |
|           |          |            |            | 50      | 28        | 24.23                    | 24.19    | 23.77    | 23.82    | 24.12    | 24.46    | 0        |
|           |          |            |            | 50      | 56        | 23.67                    | 23.53    | 23.15    | 23.19    | 23.60    | 23.87    | 0.5      |
|           |          |            |            | 100     | 0         | 23.65                    | 23.66    | 23.24    | 23.23    | 23.57    | 23.92    | 0.5      |
|           |          |            | QPSK       | 1       | 1         | 23.54                    | 23.85    | 23.37    | 23.28    | 23.38    | 23.86    | 0        |
|           |          |            |            | 1       | 53        | 24.19                    | 24.21    | 23.74    | 23.76    | 24.06    | 24.40    | 0        |
|           |          |            |            | 1       | 104       | 23.83                    | 23.53    | 23.18    | 23.30    | 23.72    | 23.99    | 0        |
|           |          |            |            | 50      | 0         | 23.08                    | 23.20    | 22.76    | 22.74    | 22.92    | 23.35    | 1        |
|           |          |            |            | 50      | 28        | 24.24                    | 24.18    | 23.76    | 23.79    | 24.12    | 24.48    | 0        |
|           |          |            |            | 50      | 56        | 23.20                    | 23.03    | 22.65    | 22.71    | 23.11    | 23.41    | 1        |
|           |          |            |            | 100     | 0         | 23.18                    | 23.17    | 22.74    | 22.76    | 23.08    | 23.43    | 1        |
|           |          |            | 16QAM      | 1       | 1         | 22.36                    | 22.87    | 22.11    | 22.07    | 22.19    | 22.55    | 1        |
| CP        | QPSK     | 1          | 1          | 22.13   | 22.45     | 21.98                    | 21.87    | 21.98    | 22.43    | 1.5      |          |          |

NR Band n77\_ 50 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |       |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------------|-------------|-------|-------------|-------------|----------|
|           |          |            |            |         |           | 648334                   | 652134      | 655934      |       | 659800      | 663666      |          |
|           |          |            |            |         |           | 3725<br>MHz              | 3782<br>MHz | 3839<br>MHz |       | 3896<br>MHz | 3955<br>MHz |          |
| 50 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.75                    | 24.08       | 23.55       |       | 23.40       | 24.04       | 0        |
|           |          |            |            | 1       | 67        | 24.17                    | 24.09       | 23.75       |       | 23.86       | 24.45       | 0        |
|           |          |            |            | 1       | 131       | 24.09                    | 23.65       | 23.51       |       | 23.86       | 24.26       | 0        |
|           |          |            |            | 64      | 0         | 23.58                    | 23.75       | 23.27       |       | 23.24       | 23.95       | 0.5      |
|           |          |            |            | 64      | 35        | 24.20                    | 24.16       | 23.79       |       | 23.92       | 24.46       | 0        |
|           |          |            |            | 64      | 69        | 23.75                    | 23.53       | 23.25       |       | 23.50       | 23.98       | 0.5      |
|           |          |            | QPSK       | 128     | 0         | 23.65                    | 23.65       | 23.25       |       | 23.36       | 23.97       | 0.5      |
|           |          |            |            | 1       | 1         | 23.72                    | 24.04       | 23.53       |       | 23.40       | 24.01       | 0        |
|           |          |            |            | 1       | 67        | 24.13                    | 24.06       | 23.74       |       | 23.82       | 24.41       | 0        |
|           |          |            |            | 1       | 131       | 24.09                    | 23.65       | 23.47       |       | 23.86       | 24.24       | 0        |
|           |          |            |            | 64      | 0         | 23.11                    | 23.26       | 22.77       |       | 22.75       | 23.48       | 1        |
|           |          |            |            | 64      | 35        | 24.20                    | 24.19       | 23.79       |       | 23.93       | 24.48       | 0        |
|           |          |            |            | 64      | 69        | 23.25                    | 23.02       | 22.75       |       | 23.00       | 23.49       | 1        |
|           |          |            |            | 128     | 0         | 23.19                    | 23.18       | 22.79       |       | 22.87       | 23.47       | 1        |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.46       | 22.78       | 22.25 |             | 22.12       | 22.92    |
| CP        | QPSK     | 1          | 1          | 22.31   | 22.61     | 22.11                    |             | 21.96       | 22.59 | 1.5         |             |          |

NR Band n77\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |       |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------------|-------------|-------|-------------|-------------|----------|
|           |          |            |            |         |           | 648666                   | 652334      | 656000      |       | 659666      | 663334      |          |
|           |          |            |            |         |           | 3730<br>MHz              | 3730<br>MHz | 3840<br>MHz |       | 3895<br>MHz | 3950<br>MHz |          |
| 60 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.73                    | 23.92       | 23.50       |       | 23.39       | 23.79       | 0        |
|           |          |            |            | 1       | 81        | 24.28                    | 24.04       | 23.82       |       | 23.92       | 24.40       | 0        |
|           |          |            |            | 1       | 160       | 23.99                    | 23.45       | 23.40       |       | 23.84       | 24.19       | 0        |
|           |          |            |            | 81      | 0         | 23.64                    | 23.56       | 23.26       |       | 23.28       | 23.76       | 0.5      |
|           |          |            |            | 81      | 41        | 24.29                    | 24.00       | 23.83       |       | 23.97       | 24.43       | 0        |
|           |          |            |            | 81      | 81        | 23.75                    | 23.35       | 23.20       |       | 23.54       | 23.90       | 0.5      |
|           |          |            | QPSK       | 162     | 0         | 23.69                    | 23.45       | 23.20       |       | 23.40       | 23.82       | 0.5      |
|           |          |            |            | 1       | 1         | 23.68                    | 23.93       | 23.47       |       | 23.36       | 23.78       | 0        |
|           |          |            |            | 1       | 81        | 24.25                    | 24.00       | 23.82       |       | 23.93       | 24.36       | 0        |
|           |          |            |            | 1       | 160       | 23.95                    | 23.46       | 23.38       |       | 23.82       | 24.14       | 0        |
|           |          |            |            | 81      | 0         | 23.16                    | 23.06       | 22.79       |       | 22.78       | 23.27       | 1        |
|           |          |            |            | 81      | 41        | 24.29                    | 23.98       | 23.82       |       | 23.99       | 24.40       | 0        |
|           |          |            |            | 81      | 81        | 23.29                    | 22.82       | 22.69       |       | 23.04       | 23.39       | 1        |
|           |          |            |            | 162     | 0         | 23.20                    | 22.98       | 22.74       |       | 22.90       | 23.33       | 1        |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.54       | 22.85       | 22.43 |             | 22.34       | 22.70    |
| CP        | QPSK     | 1          | 1          | 22.30   | 22.46     | 22.01                    |             | 21.94       | 22.34 | 1.5         |             |          |

NR Band n77\_ 80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |       |       |             | MPR [dB] |             |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------------|-------|-------|-------------|----------|-------------|
|           |          |            |            |         |           | 662666                   | 653800      |       |       | 658200      |          | 662666      |
|           |          |            |            |         |           | 3740<br>MHz              | 3807<br>MHz |       |       | 3873<br>MHz |          | 3940<br>MHz |
| 80 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.42                    | 23.68       |       |       | 23.27       | 23.42    | 0           |
|           |          |            |            | 1       | 109       | 24.29                    | 23.79       |       |       | 23.70       | 24.31    | 0           |
|           |          |            |            | 1       | 215       | 24.02                    | 23.32       |       |       | 23.59       | 24.02    | 0           |
|           |          |            |            | 108     | 0         | 23.60                    | 23.45       |       |       | 23.22       | 23.62    | 0.5         |
|           |          |            |            | 108     | 55        | 24.34                    | 23.85       |       |       | 23.78       | 24.34    | 0           |
|           |          |            |            | 108     | 109       | 23.90                    | 23.23       |       |       | 23.33       | 23.90    | 0.5         |
|           |          |            | QPSK       | 216     | 0         | 23.73                    | 23.33       |       |       | 23.26       | 23.74    | 0.5         |
|           |          |            |            | 1       | 1         | 23.38                    | 23.65       |       |       | 23.21       | 23.39    | 0           |
|           |          |            |            | 1       | 109       | 24.26                    | 23.76       |       |       | 23.70       | 24.27    | 0           |
|           |          |            |            | 1       | 215       | 23.99                    | 23.25       |       |       | 23.55       | 23.98    | 0           |
|           |          |            |            | 108     | 0         | 23.11                    | 22.94       |       |       | 22.71       | 23.10    | 1           |
|           |          |            |            | 108     | 55        | 24.35                    | 23.85       |       |       | 23.79       | 24.37    | 0           |
|           |          |            |            | 108     | 109       | 23.41                    | 22.75       |       |       | 22.87       | 23.41    | 1           |
|           |          |            |            | 216     | 0         | 23.24                    | 22.85       |       |       | 22.76       | 23.24    | 1           |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.36       | 22.64 |       |             | 22.16    | 22.26       |
| CP        | QPSK     | 1          | 1          | 22.00   | 22.25     |                          |             | 21.81 | 22.00 | 1.5         |          |             |

NR Band n77\_ 90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       |             | MPR [dB] |     |
|-----------|----------|------------|------------|---------|-----------|--------------------------|-------|-------------|-------|-------------|----------|-----|
|           |          |            |            |         |           | 649666                   |       | 656000      |       | 662334      |          |     |
|           |          |            |            |         |           | 3745<br>MHz              |       | 3840<br>MHz |       | 3935<br>MHz |          |     |
| 90 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 23.46                    |       | 23.34       |       | 23.18       |          | 0   |
|           |          |            |            | 1       | 123       | 24.39                    |       | 23.74       |       | 24.16       |          | 0   |
|           |          |            |            | 1       | 243       | 23.42                    |       | 23.18       |       | 23.87       |          | 0   |
|           |          |            |            | 120     | 0         | 23.69                    |       | 23.25       |       | 23.42       |          | 0.5 |
|           |          |            |            | 120     | 63        | 24.35                    |       | 23.76       |       | 24.21       |          | 0   |
|           |          |            |            | 120     | 125       | 23.66                    |       | 23.16       |       | 23.79       |          | 0.5 |
|           |          |            | QPSK       | 243     | 0         | 23.69                    |       | 23.22       |       | 23.63       |          | 0.5 |
|           |          |            |            | 1       | 1         | 23.46                    |       | 23.32       |       | 23.18       |          | 0   |
|           |          |            |            | 1       | 123       | 24.41                    |       | 23.75       |       | 24.18       |          | 0   |
|           |          |            |            | 1       | 243       | 23.44                    |       | 23.17       |       | 23.93       |          | 0   |
|           |          |            |            | 120     | 0         | 23.19                    |       | 22.75       |       | 22.94       |          | 1   |
|           |          |            |            | 120     | 63        | 24.36                    |       | 23.77       |       | 24.22       |          | 0   |
|           |          |            |            | 120     | 125       | 23.17                    |       | 22.63       |       | 23.31       |          | 1   |
|           |          |            |            | 243     | 0         | 23.18                    |       | 22.72       |       | 23.14       |          | 1   |
|           |          |            |            | 16QAM   | 1         | 1                        | 22.19 |             | 22.12 |             | 21.93    |     |
| CP        | QPSK     | 1          | 1          | 21.99   |           | 21.87                    |       | 21.71       |       | 1.5         |          |     |



NR Band n77\_ 100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM          | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       |             |   | MPR [dB] |
|-----------|----------|---------------|------------|---------|-----------|--------------------------|-------|-------------|-------|-------------|---|----------|
|           |          |               |            |         |           | 650000                   |       | 656000      |       | 662000      |   |          |
|           |          |               |            |         |           | 3750<br>MHz              |       | 3840<br>MHz |       | 3930<br>MHz |   |          |
| 100 MHz   | 30       | DFT-s<br>OFDM | PI/2 BPSK  | 1       | 1         | 23.28                    |       | 23.23       |       | 22.95       |   | 0        |
|           |          |               |            | 1       | 137       | 24.40                    |       | 23.75       |       | 24.19       |   | 0        |
|           |          |               |            | 1       | 271       | 23.26                    |       | 23.10       |       | 23.76       |   | 0        |
|           |          |               |            | 135     | 0         | 23.58                    |       | 23.20       |       | 23.38       |   | 0.5      |
|           |          |               |            | 135     | 67        | 24.27                    |       | 23.74       |       | 24.24       |   | 0        |
|           |          |               |            | 135     | 138       | 23.55                    |       | 23.13       |       | 23.77       |   | 0.5      |
|           |          |               | QPSK       | 270     | 0         | 23.53                    |       | 23.16       |       | 23.58       |   | 0.5      |
|           |          |               |            | 1       | 1         | 23.31                    |       | 23.27       |       | 22.93       |   | 0        |
|           |          |               |            | 1       | 137       | 24.40                    |       | 23.77       |       | 24.19       |   | 0        |
|           |          |               |            | 1       | 271       | 23.29                    |       | 23.16       |       | 23.78       |   | 0        |
|           |          |               |            | 135     | 0         | 23.07                    |       | 22.71       |       | 22.89       |   | 1        |
|           |          |               |            | 135     | 67        | 24.30                    |       | 23.77       |       | 24.23       |   | 0        |
|           |          |               |            | 135     | 138       | 23.04                    |       | 22.63       |       | 23.27       |   | 1        |
|           |          |               |            | 270     | 0         | 23.06                    |       | 22.66       |       | 23.09       |   | 1        |
|           |          | 16QAM         | 1          | 1       | 22.03     |                          | 22.00 |             | 21.66 |             | 1 |          |
| CP        | QPSK     | 1             | 1          | 21.84   |           | 21.77                    |       | 21.50       |       | 1.5         |   |          |

**11.5.2 NR Band Reduced Conducted Power (Hotspot activated)**

**[ NR Band n2 Conducted Power \_ Hotspot activated]**

NR Band n2 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
|           |          |            |            |         |           | 370500              | 376000   | 381500     |          |
|           |          |            |            |         |           | 1852.5 MHz          | 1880 MHz | 1907.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.82               | 20.66    | 20.79      | 0        |
|           |          |            |            | 1       | 13        | 20.72               | 20.72    | 20.91      | 0        |
|           |          |            |            | 1       | 23        | 20.68               | 20.72    | 20.95      | 0        |
|           |          |            |            | 12      | 0         | 20.85               | 20.80    | 20.98      | 0        |
|           |          |            |            | 12      | 7         | 20.77               | 20.74    | 20.93      | 0        |
|           |          |            |            | 12      | 13        | 20.77               | 20.79    | 20.97      | 0        |
|           |          |            |            | 25      | 0         | 20.83               | 20.79    | 20.97      | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.78               | 20.71    | 20.85      | 0        |
|           |          |            |            | 1       | 13        | 20.73               | 20.70    | 20.88      | 0        |
|           |          |            |            | 1       | 23        | 20.68               | 20.75    | 20.92      | 0        |
|           |          |            |            | 12      | 0         | 20.82               | 20.77    | 20.96      | 0        |
|           |          |            |            | 12      | 7         | 20.84               | 20.74    | 20.98      | 0        |
|           |          |            |            | 12      | 13        | 20.75               | 20.74    | 20.98      | 0        |
|           |          |            |            | 25      | 0         | 20.82               | 20.77    | 20.98      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.81               | 20.72    | 20.86      | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.83    | 20.77      | 20.91    |

NR Band n2 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|
|           |          |            |            |         |           | 371000              | 376000   | 381000   |          |
|           |          |            |            |         |           | 1855 MHz            | 1880 MHz | 1905 MHz |          |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.74               | 20.50    | 20.63    | 0        |
|           |          |            |            | 1       | 26        | 20.64               | 20.58    | 20.70    | 0        |
|           |          |            |            | 1       | 50        | 20.47               | 20.58    | 20.80    | 0        |
|           |          |            |            | 25      | 0         | 20.76               | 20.59    | 20.79    | 0        |
|           |          |            |            | 25      | 14        | 20.69               | 20.66    | 20.78    | 0        |
|           |          |            |            | 25      | 27        | 20.62               | 20.61    | 20.83    | 0        |
|           |          |            |            | 50      | 0         | 20.70               | 20.59    | 20.78    | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.73               | 20.46    | 20.64    | 0        |
|           |          |            |            | 1       | 26        | 20.70               | 20.55    | 20.78    | 0        |
|           |          |            |            | 1       | 50        | 20.47               | 20.60    | 20.75    | 0        |
|           |          |            |            | 25      | 0         | 20.75               | 20.63    | 20.81    | 0        |
|           |          |            |            | 25      | 14        | 20.69               | 20.66    | 20.78    | 0        |
|           |          |            |            | 25      | 27        | 20.63               | 20.62    | 20.82    | 0        |
|           |          |            |            | 50      | 0         | 20.71               | 20.61    | 20.81    | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.40               | 20.53    | 20.36    | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.69    | 20.58    | 20.57    |

NR Band n2 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
|           |          |            |            |         |           | 371500              | 376000   | 380500     |          |
|           |          |            |            |         |           | 1857.5 MHz          | 1880 MHz | 1902.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.79               | 20.58    | 20.65      | 0        |
|           |          |            |            | 1       | 40        | 20.71               | 20.77    | 20.80      | 0        |
|           |          |            |            | 1       | 77        | 20.57               | 20.58    | 20.82      | 0        |
|           |          |            |            | 36      | 0         | 20.85               | 20.74    | 20.83      | 0        |
|           |          |            |            | 36      | 22        | 20.75               | 20.81    | 20.85      | 0        |
|           |          |            |            | 36      | 43        | 20.69               | 20.81    | 20.86      | 0        |
|           |          |            |            | 75      | 0         | 20.76               | 20.76    | 20.90      | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.79               | 20.54    | 20.62      | 0        |
|           |          |            |            | 1       | 40        | 20.67               | 20.79    | 20.74      | 0        |
|           |          |            |            | 1       | 77        | 20.52               | 20.60    | 20.79      | 0        |
|           |          |            |            | 36      | 0         | 20.86               | 20.77    | 20.84      | 0        |
|           |          |            |            | 36      | 22        | 20.75               | 20.83    | 20.86      | 0        |
|           |          |            |            | 36      | 43        | 20.70               | 20.85    | 20.88      | 0        |
|           |          |            |            | 75      | 0         | 20.79               | 20.78    | 20.91      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.36               | 20.58    | 20.65      | 0        |
| CP        | QPSK     | 1          | 1          | 20.80   | 20.58     | 20.60               | 0        |            |          |

NR Band n2 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
|           |          |            |            |         |           | 372000              | 376000   | 380000   |          |   |
|           |          |            |            |         |           | 1860 MHz            | 1880 MHz | 1900 MHz |          |   |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.65               | 20.49    | 20.65    | 0        |   |
|           |          |            |            | 1       | 53        | 20.59               | 20.75    | 20.79    | 0        |   |
|           |          |            |            | 1       | 104       | 20.44               | 20.53    | 20.79    | 0        |   |
|           |          |            |            | 50      | 0         | 20.66               | 20.68    | 20.78    | 0        |   |
|           |          |            |            | 50      | 28        | 20.65               | 20.75    | 20.84    | 0        |   |
|           |          |            |            | 50      | 56        | 20.59               | 20.76    | 20.76    | 0        |   |
|           |          |            |            | 100     | 0         | 20.67               | 20.73    | 20.77    | 0        |   |
|           |          |            | QPSK       | 1       | 1         | 20.63               | 20.43    | 20.63    | 0        |   |
|           |          |            |            | 1       | 53        | 20.63               | 20.78    | 20.80    | 0        |   |
|           |          |            |            | 1       | 104       | 20.42               | 20.55    | 20.74    | 0        |   |
|           |          |            |            | 50      | 0         | 20.78               | 20.70    | 20.81    | 0        |   |
|           |          |            |            | 50      | 28        | 20.69               | 20.76    | 20.86    | 0        |   |
|           |          |            |            | 50      | 56        | 20.64               | 20.78    | 20.74    | 0        |   |
|           |          |            |            | 100     | 0         | 20.73               | 20.75    | 20.80    | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 20.72               | 20.52    | 20.52    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.78    | 20.59    | 20.72    | 0 |

[ NR Band n25 Conducted Power \_ Hotspot activated]

NR Band n25 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
|           |          |            |            |         |           | 370500              | 376500     | 382500     |          |
|           |          |            |            |         |           | 1852.5 MHz          | 1882.5 MHz | 1912.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 21.16               | 21.06      | 21.21      | 0        |
|           |          |            |            | 1       | 13        | 20.84               | 21.08      | 21.31      | 0        |
|           |          |            |            | 1       | 23        | 20.79               | 21.10      | 21.42      | 0        |
|           |          |            |            | 12      | 0         | 21.24               | 21.11      | 21.35      | 0        |
|           |          |            |            | 12      | 7         | <b>21.16</b>        | 21.07      | 21.38      | 0        |
|           |          |            |            | 12      | 13        | <b>21.14</b>        | 21.12      | 21.44      | 0        |
|           |          |            | 25         | 0       | 21.17     | 21.14               | 21.43      | 0          |          |
|           |          |            | QPSK       | 1       | 1         | 21.02               | 21.07      | 21.24      | 0        |
|           |          |            |            | 1       | 13        | 20.94               | 21.05      | 21.32      | 0        |
|           |          |            |            | 1       | 23        | 20.94               | 21.09      | 21.44      | 0        |
|           |          |            |            | 12      | 0         | 21.24               | 21.13      | 21.40      | 0        |
|           |          |            |            | 12      | 7         | <b>21.15</b>        | 21.11      | 21.42      | 0        |
|           |          |            |            | 12      | 13        | <b>21.13</b>        | 21.11      | 21.48      | 0        |
|           |          |            | 25         | 0       | 21.16     | 21.15               | 21.49      | 0          |          |
|           |          |            | 16QAM      | 1       | 1         | 21.23               | 21.06      | 21.27      | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 21.21      | 21.10      | 21.32    |

NR Band n25 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |              |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|--------------|----------|----------|---|
|           |          |            |            |         |           | 371000              | 376500       | 382000   |          |   |
|           |          |            |            |         |           | 1855 MHz            | 1882.5 MHz   | 1910 MHz |          |   |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 21.09               | 20.79        | 20.93    | 0        |   |
|           |          |            |            | 1       | 26        | 20.96               | 20.87        | 21.13    | 0        |   |
|           |          |            |            | 1       | 50        | 20.85               | 20.84        | 21.29    | 0        |   |
|           |          |            |            | 25      | 0         | 21.08               | 20.90        | 21.11    | 0        |   |
|           |          |            |            | 25      | 14        | <b>21.01</b>        | <b>20.96</b> | 21.21    | 0        |   |
|           |          |            |            | 25      | 27        | <b>20.97</b>        | <b>20.96</b> | 21.32    | 0        |   |
|           |          |            | 50         | 0       | 21.02     | 20.94               | 21.18        | 0        |          |   |
|           |          |            | QPSK       | 1       | 1         | 21.04               | 20.74        | 20.92    | 0        |   |
|           |          |            |            | 1       | 26        | 21.04               | 20.97        | 21.25    | 0        |   |
|           |          |            |            | 1       | 50        | 20.84               | 20.81        | 21.27    | 0        |   |
|           |          |            |            | 25      | 0         | 21.06               | 20.93        | 21.11    | 0        |   |
|           |          |            |            | 25      | 14        | <b>21.01</b>        | <b>20.95</b> | 21.23    | 0        |   |
|           |          |            |            | 25      | 27        | <b>20.96</b>        | <b>20.95</b> | 21.34    | 0        |   |
|           |          |            | 50         | 0       | 21.03     | 20.95               | 21.21        | 0        |          |   |
|           |          |            | 16QAM      | 1       | 1         | 20.94               | 20.83        | 20.64    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 21.13        | 20.89    | 20.94    | 0 |

NR Band n25 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
|           |          |            |            |         |           | 371500              | 376500     | 381500     |          |
|           |          |            |            |         |           | 1857.5 MHz          | 1882.5 MHz | 1907.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 21.13               | 20.88      | 20.96      | 0        |
|           |          |            |            | 1       | 40        | 21.02               | 21.07      | 21.25      | 0        |
|           |          |            |            | 1       | 77        | 20.87               | 20.98      | 21.40      | 0        |
|           |          |            |            | 36      | 0         | 21.16               | 21.08      | 21.20      | 0        |
|           |          |            |            | 36      | 22        | <b>21.10</b>        | 21.12      | 21.28      | 0        |
|           |          |            |            | 36      | 43        | <b>21.02</b>        | 21.12      | 21.40      | 0        |
|           |          |            |            | 75      | 0         | 21.13               | 21.12      | 21.31      | 0        |
|           |          |            | QPSK       | 1       | 1         | 21.07               | 20.87      | 20.96      | 0        |
|           |          |            |            | 1       | 40        | 21.06               | 21.06      | 21.22      | 0        |
|           |          |            |            | 1       | 77        | 20.85               | 20.94      | 21.39      | 0        |
|           |          |            |            | 36      | 0         | 21.17               | 21.08      | 21.23      | 0        |
|           |          |            |            | 36      | 22        | <b>21.12</b>        | 21.12      | 21.29      | 0        |
|           |          |            |            | 36      | 43        | <b>21.05</b>        | 21.12      | 21.43      | 0        |
|           |          |            |            | 75      | 0         | 21.15               | 21.13      | 21.33      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 21.03               | 20.89      | 21.01      | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 21.10      | 20.88      | 20.95    |

NR Band n25 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|---|
|           |          |            |            |         |           | 372000              | 376500     | 381000   |          |   |
|           |          |            |            |         |           | 1860 MHz            | 1882.5 MHz | 1905 MHz |          |   |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 21.04               | 20.79      | 20.95    | 0        |   |
|           |          |            |            | 1       | 53        | 21.00               | 21.08      | 21.40    | 0        |   |
|           |          |            |            | 1       | 104       | 20.79               | 20.90      | 21.39    | 0        |   |
|           |          |            |            | 50      | 0         | 21.10               | 21.00      | 21.23    | 0        |   |
|           |          |            |            | 50      | 28        | <b>21.04</b>        | 21.11      | 21.41    | 0        |   |
|           |          |            |            | 50      | 56        | <b>20.94</b>        | 21.09      | 21.35    | 0        |   |
|           |          |            |            | 100     | 0         | 21.04               | 21.08      | 21.31    | 0        |   |
|           |          |            | QPSK       | 1       | 1         | 21.01               | 20.76      | 20.92    | 0        |   |
|           |          |            |            | 1       | 53        | 21.38               | 21.15      | 21.41    | 0        |   |
|           |          |            |            | 1       | 104       | 20.73               | 20.87      | 21.34    | 0        |   |
|           |          |            |            | 50      | 0         | 21.09               | 21.02      | 21.24    | 0        |   |
|           |          |            |            | 50      | 28        | <b>21.39</b>        | 21.09      | 21.42    | 0        |   |
|           |          |            |            | 50      | 56        | <b>20.95</b>        | 21.09      | 21.37    | 0        |   |
|           |          |            |            | 100     | 0         | 21.06               | 21.08      | 21.32    | 0        |   |
|           |          |            |            | 16QAM   | 1         | 1                   | 21.08      | 20.82    | 20.78    | 0 |
|           |          |            | CP         | QPSK    | 1         | 1                   | 21.08      | 20.96    | 21.16    | 0 |

[ NR Band n41 Conducted Power \_ Hotspot activated]

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |             |             |          | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------|-------------|-------------|----------|----------|---|
|           |          |       |            |         |           | 500202              | 509400   | 518598      | 527802      | 53700    |          |   |
|           |          |       |            |         |           | 2501.01 MHz         | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |   |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.67               | 21.01    | 21.70       | 21.09       | 20.67    | 0        |   |
|           |          |       |            | 1       | 12        | 20.84               | 21.29    | 21.90       | 21.24       | 20.97    | 0        |   |
|           |          |       |            | 1       | 22        | 20.64               | 21.04    | 21.58       | 20.97       | 20.78    | 0        |   |
|           |          |       |            | 12      | 0         | 20.60               | 20.98    | 21.70       | 21.06       | 20.67    | 0        |   |
|           |          |       |            | 12      | 6         | 20.67               | 21.02    | 21.68       | 21.07       | 20.76    | 0        |   |
|           |          |       |            | 12      | 12        | 20.68               | 21.00    | 21.62       | 21.00       | 20.80    | 0        |   |
|           |          |       | QPSK       | 24      | 0         | 20.67               | 21.07    | 21.70       | 21.07       | 20.77    | 0        |   |
|           |          |       |            | 1       | 1         | 20.42               | 20.73    | 21.45       | 20.84       | 20.47    | 0        |   |
|           |          |       |            | 1       | 12        | 20.44               | 20.82    | 21.50       | 20.84       | 20.55    | 0        |   |
|           |          |       |            | 1       | 22        | 20.36               | 20.77    | 21.35       | 20.69       | 20.56    | 0        |   |
|           |          |       |            | 12      | 0         | 20.59               | 21.00    | 21.64       | 21.05       | 20.69    | 0        |   |
|           |          |       |            | 12      | 6         | 20.64               | 21.02    | 21.62       | 21.04       | 20.74    | 0        |   |
|           |          |       | 16QAM      | 12      | 12        | 20.65               | 21.02    | 21.59       | 20.97       | 20.80    | 0        |   |
|           |          |       |            | 24      | 0         | 20.65               | 21.01    | 21.63       | 21.01       | 20.74    | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                   | 21.00    | 21.31       | 21.99       | 21.40    | 20.98    | 0 |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |              |             |             |             | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|--------------|-------------|-------------|-------------|----------|---|
|           |          |       |            |         |           | 500700              | 509664       | 518598      | 527562      | 536496      |          |   |
|           |          |       |            |         |           | 2503.5 MHz          | 2548.32 MHz  | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |   |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.73               | 21.01        | 21.73       | 21.21       | 20.56       | 0        |   |
|           |          |       |            | 1       | 39        | 20.73               | 21.06        | 21.83       | 21.17       | 20.74       | 0        |   |
|           |          |       |            | 1       | 76        | 20.70               | 21.11        | 21.62       | 21.02       | 20.84       | 0        |   |
|           |          |       |            | 36      | 0         | 20.70               | 21.09        | 21.73       | 21.18       | 20.65       | 0        |   |
|           |          |       |            | 36      | 21        | <b>20.72</b>        | <b>21.13</b> | 21.76       | 21.19       | 20.74       | 0        |   |
|           |          |       |            | 36      | 42        | <b>20.75</b>        | <b>21.17</b> | 21.72       | 21.13       | 20.81       | 0        |   |
|           |          |       | QPSK       | 75      | 0         | 20.76               | 21.15        | 21.77       | 21.17       | 20.74       | 0        |   |
|           |          |       |            | 1       | 1         | 20.45               | 20.74        | 21.48       | 20.94       | 20.33       | 0        |   |
|           |          |       |            | 1       | 39        | 20.49               | 20.88        | 21.57       | 20.94       | 20.51       | 0        |   |
|           |          |       |            | 1       | 76        | 20.38               | 20.90        | 21.35       | 20.75       | 20.53       | 0        |   |
|           |          |       |            | 36      | 0         | 20.67               | 21.07        | 21.74       | 21.17       | 20.62       | 0        |   |
|           |          |       |            | 36      | 21        | <b>20.73</b>        | <b>21.13</b> | 21.75       | 21.17       | 20.71       | 0        |   |
|           |          |       | 16QAM      | 36      | 42        | <b>20.72</b>        | <b>21.12</b> | 21.68       | 21.06       | 20.78       | 0        |   |
|           |          |       |            | 75      | 0         | 20.72               | 21.16        | 21.76       | 21.17       | 20.71       | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                   | 21.06        | 21.36       | 21.93       | 21.51       | 20.89    | 0 |

NR Band n41\_20 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |              |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|--------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204              | 509898       | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz         | 2549.49 MHz  | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.70               | 20.99        | 21.61       | 21.19       | 20.57       | 0        |
|           |          |       |            | 1       | 26        | 20.77               | 21.11        | 21.79       | 21.21       | 20.75       | 0        |
|           |          |       |            | 1       | 49        | 20.69               | 21.17        | 21.49       | 20.94       | 20.73       | 0        |
|           |          |       |            | 25      | 0         | 20.69               | 21.07        | 21.71       | 21.18       | 20.61       | 0        |
|           |          |       |            | 25      | 13        | <b>20.76</b>        | <b>21.16</b> | 21.76       | 21.23       | 20.73       | 0        |
|           |          |       |            | 25      | 26        | <b>20.82</b>        | <b>21.19</b> | 21.64       | 21.07       | 20.79       | 0        |
|           |          |       |            | 50      | 0         | 20.80               | 21.21        | 21.75       | 21.19       | 20.73       | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.45               | 20.70        | 21.34       | 20.92       | 20.34       | 0        |
|           |          |       |            | 1       | 26        | 20.50               | 20.84        | 21.55       | 20.95       | 20.49       | 0        |
|           |          |       |            | 1       | 49        | 20.44               | 20.91        | 21.24       | 20.70       | 20.54       | 0        |
|           |          |       |            | 25      | 0         | 20.68               | 21.05        | 21.69       | 21.13       | 20.59       | 0        |
|           |          |       |            | 25      | 13        | <b>20.74</b>        | <b>21.12</b> | 21.72       | 21.16       | 20.69       | 0        |
|           |          |       |            | 25      | 26        | <b>20.76</b>        | <b>21.14</b> | 21.59       | 21.05       | 20.75       | 0        |
|           |          | 50    | 0          | 20.80   | 21.14     | 21.68               | 21.14        | 20.68       | 0           |             |          |
| CP        | 16QAM    | 1     | 1          | 20.97   | 21.23     | 21.86               | 21.42        | 20.81       | 0           |             |          |
| CP        | QPSK     | 1     | 1          | 21.06   | 21.34     | 21.91               | 21.50        | 20.89       | 0           |             |          |

NR Band n41\_30 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |              |              |             |          | MPR [dB] |       |
|-----------|----------|-------|------------|---------|-----------|---------------------|--------------|--------------|-------------|----------|----------|-------|
|           |          |       |            |         |           | 502200              | 513468       | 518598       | 523734      | 535000   |          |       |
|           |          |       |            |         |           | 2511 MHz            | 2567.34 MHz  | 2592.99 MHz  | 2618.67 MHz | 2675 MHz |          |       |
| 30 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.52               | 20.94        | 21.42        | 21.30       | 20.51    | 0        |       |
|           |          |       |            | 1       | 39        | 20.94               | 21.73        | 21.95        | 21.61       | 21.04    | 0        |       |
|           |          |       |            | 1       | 76        | 20.65               | 21.48        | 21.28        | 21.02       | 20.75    | 0        |       |
|           |          |       |            | 36      | 0         | 20.72               | 21.35        | 21.76        | 21.47       | 20.69    | 0        |       |
|           |          |       |            | 36      | 21        | <b>20.88</b>        | <b>21.56</b> | <b>21.83</b> | 21.47       | 20.78    | 0        |       |
|           |          |       |            | 36      | 42        | <b>20.91</b>        | <b>21.66</b> | <b>21.65</b> | 21.30       | 20.87    | 0        |       |
|           |          |       |            | 75      | 0         | 20.85               | 21.55        | 21.77        | 21.43       | 20.82    | 0        |       |
|           |          |       | QPSK       | 1       | 1         | 20.31               | 20.70        | 21.21        | 21.10       | 20.31    | 0        |       |
|           |          |       |            | 1       | 39        | 20.47               | 21.30        | 21.61        | 21.16       | 20.49    | 0        |       |
|           |          |       |            | 1       | 76        | 20.45               | 21.28        | 21.05        | 20.79       | 20.49    | 0        |       |
|           |          |       |            | 36      | 0         | 20.72               | 21.34        | 21.73        | 21.46       | 20.74    | 0        |       |
|           |          |       |            | 36      | 21        | <b>20.85</b>        | <b>21.58</b> | <b>21.82</b> | 21.46       | 20.73    | 0        |       |
|           |          |       |            | 36      | 42        | <b>20.84</b>        | <b>21.60</b> | <b>21.62</b> | 21.27       | 20.84    | 0        |       |
|           |          |       |            | 75      | 0         | 20.72               | 21.44        | 21.72        | 21.39       | 20.78    | 0        |       |
|           |          |       |            | CP      | 16QAM     | 1                   | 1            | 20.82        | 21.20       | 21.70    | 21.58    | 20.73 |
|           |          |       | CP         | QPSK    | 1         | 1                   | 21.03        | 21.42        | 21.87       | 21.70    | 20.88    | 0     |

NR Band n41\_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                |  |                |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------------|--|----------------|-------------|----------|
|           |          |       |            |         |           | 503202              | 513468         |  | 523734         | 534000      |          |
|           |          |       |            |         |           | 2516.01<br>MHz      | 2567.34<br>MHz |  | 2618.67<br>MHz | 2670<br>MHz |          |
| 40 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.63               | 20.89          |  | 21.53          | 20.78       | 0        |
|           |          |       |            | 1       | 53        | 21.38               | 22.14          |  | 21.98          | 21.29       | 0        |
|           |          |       |            | 1       | 104       | 20.90               | 21.67          |  | 20.99          | 20.74       | 0        |
|           |          |       |            | 50      | 0         | 20.88               | 21.53          |  | 21.78          | 21.08       | 0        |
|           |          |       |            | 50      | 28        | <b>21.19</b>        | <b>21.85</b>   |  | 21.75          | 21.02       | 0        |
|           |          |       |            | 50      | 56        | <b>21.16</b>        | <b>21.87</b>   |  | 21.51          | 20.96       | 0        |
|           |          |       |            | 100     | 0         | 21.12               | 21.77          |  | 21.69          | 21.09       | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.40               | 20.69          |  | 21.32          | 20.50       | 0        |
|           |          |       |            | 1       | 53        | 20.86               | 21.45          |  | 21.35          | 20.75       | 0        |
|           |          |       |            | 1       | 104       | 20.75               | 21.36          |  | 20.75          | 20.52       | 0        |
|           |          |       |            | 50      | 0         | 20.87               | 21.49          |  | 21.69          | 21.02       | 0        |
|           |          |       |            | 50      | 28        | <b>21.16</b>        | <b>21.79</b>   |  | 21.69          | 20.98       | 0        |
|           |          |       |            | 50      | 56        | <b>21.13</b>        | <b>21.87</b>   |  | 21.51          | 20.98       | 0        |
|           |          |       |            | 100     | 0         | 21.05               | 21.71          |  | 21.66          | 21.02       | 0        |
|           |          |       | 16QAM      | 1       | 1         | 20.87               | 21.18          |  | 21.93          | 21.04       | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 21.10               | 21.25          |  | 21.94          | 21.17       | 0        |

NR Band n41\_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |                |  |                | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|----------------|--|----------------|----------|
|           |          |       |            |         |           | 504204              |  | 518598         |  | 532998         |          |
|           |          |       |            |         |           | 2521.02<br>MHz      |  | 2592.99<br>MHz |  | 2664.99<br>MHz |          |
| 50 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.54               |  | 21.26          |  | 20.82          | 0        |
|           |          |       |            | 1       | 67        | 20.83               |  | 21.85          |  | 20.69          | 0        |
|           |          |       |            | 1       | 131       | 20.85               |  | 21.10          |  | 20.64          | 0        |
|           |          |       |            | 64      | 0         | 20.68               |  | 21.79          |  | 20.94          | 0        |
|           |          |       |            | 64      | 35        | <b>20.93</b>        |  | 21.84          |  | 20.77          | 0        |
|           |          |       |            | 64      | 69        | <b>21.01</b>        |  | 21.56          |  | 20.72          | 0        |
|           |          |       |            | 128     | 0         | 20.86               |  | 21.78          |  | 20.86          | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.28               |  | 21.02          |  | 20.54          | 0        |
|           |          |       |            | 1       | 67        | 20.63               |  | 21.60          |  | 20.43          | 0        |
|           |          |       |            | 1       | 131       | 20.58               |  | 20.92          |  | 20.41          | 0        |
|           |          |       |            | 64      | 0         | 20.66               |  | 21.74          |  | 20.93          | 0        |
|           |          |       |            | 64      | 35        | <b>20.97</b>        |  | 21.81          |  | 20.73          | 0        |
|           |          |       |            | 64      | 69        | <b>21.02</b>        |  | 21.60          |  | 20.67          | 0        |
|           |          |       |            | 128     | 0         | 20.87               |  | 21.72          |  | 20.78          | 0        |
|           |          |       | 16QAM      | 1       | 1         | 20.87               |  | 21.58          |  | 21.06          | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 21.03               |  | 21.72          |  | 21.31          | 0        |



NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |             |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|-------------|
|           |          |       |            |         |           | 505200              |  | 518598      |   |          | 531996      |
|           |          |       |            |         |           | 2526 MHz            |  | 2592.99 MHz |   |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.42               |  | 21.01       |   | 20.90    | 0           |
|           |          |       |            | 1       | 81        | 21.15               |  | 21.92       |   | 20.98    | 0           |
|           |          |       |            | 1       | 160       | 20.88               |  | 20.97       |   | 20.53    | 0           |
|           |          |       |            | 81      | 0         | 20.68               |  | 21.68       |   | 21.08    | 0           |
|           |          |       |            | 81      | 41        | <b>21.06</b>        |  | 21.77       |   | 20.87    | 0           |
|           |          |       |            | 81      | 81        | <b>21.02</b>        |  | 21.51       |   | 20.61    | 0           |
|           |          |       |            | 162     | 0         | 20.91               |  | 21.64       |   | 20.89    | 0           |
|           |          |       | QPSK       | 1       | 1         | 20.17               |  | 20.84       |   | 20.68    | 0           |
|           |          |       |            | 1       | 81        | 20.53               |  | 21.63       |   | 20.52    | 0           |
|           |          |       |            | 1       | 160       | 20.64               |  | 20.76       |   | 20.33    | 0           |
|           |          |       |            | 81      | 0         | 20.60               |  | 21.61       |   | 21.04    | 0           |
|           |          |       |            | 81      | 41        | <b>20.99</b>        |  | 21.74       |   | 20.82    | 0           |
|           |          |       |            | 81      | 81        | <b>20.99</b>        |  | 21.46       |   | 20.61    | 0           |
|           |          |       |            | 162     | 0         | 20.84               |  | 21.60       |   | 20.88    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 20.76               |  | 21.28       |   | 21.19    | 0           |
| CP        | QPSK     | 1     | 1          | 20.72   |           | 21.18               |  | 21.26       | 0 |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 507204              |  |       |   |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz         |  |       |   |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.81               |  |       |   | 21.56    | 0           |
|           |          |       |            | 1       | 109       | 21.67               |  |       |   | 21.52    | 0           |
|           |          |       |            | 1       | 215       | 21.72               |  |       |   | 20.92    | 0           |
|           |          |       |            | 108     | 0         | 21.32               |  |       |   | 21.79    | 0           |
|           |          |       |            | 108     | 55        | <b>21.68</b>        |  |       |   | 21.64    | 0           |
|           |          |       |            | 108     | 109       | <b>21.87</b>        |  |       |   | 21.28    | 0           |
|           |          |       |            | 216     | 0         | 21.62               |  |       |   | 21.53    | 0           |
|           |          |       | QPSK       | 1       | 1         | 20.58               |  |       |   | 21.34    | 0           |
|           |          |       |            | 1       | 109       | 21.46               |  |       |   | 21.36    | 0           |
|           |          |       |            | 1       | 215       | 21.53               |  |       |   | 20.72    | 0           |
|           |          |       |            | 108     | 0         | 21.30               |  |       |   | 21.75    | 0           |
|           |          |       |            | 108     | 55        | <b>21.64</b>        |  |       |   | 21.60    | 0           |
|           |          |       |            | 108     | 109       | <b>21.83</b>        |  |       |   | 21.23    | 0           |
|           |          |       |            | 216     | 0         | 21.58               |  |       |   | 21.49    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 21.00               |  |       |   | 21.87    | 0           |
| CP        | QPSK     | 1     | 1          | 21.15   |           |                     |  | 21.97 | 0 |          |             |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |  |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|--|-------|----------|-------------|
|           |          |       |            |         |           | 508200              |  |  |       |          | 528996      |
|           |          |       |            |         |           | 2541 MHz            |  |  |       |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.35               |  |  |       | 21.26    | 0           |
|           |          |       |            | 1       | 123       | 21.37               |  |  |       | 21.32    | 0           |
|           |          |       |            | 1       | 243       | 21.47               |  |  |       | 20.45    | 0           |
|           |          |       |            | 120     | 0         | 21.02               |  |  |       | 21.50    | 0           |
|           |          |       |            | 120     | 63        | <b>21.40</b>        |  |  |       | 21.31    | 0           |
|           |          |       |            | 120     | 125       | <b>21.60</b>        |  |  |       | 20.89    | 0           |
|           |          |       |            | 243     | 0         | 21.31               |  |  |       | 21.22    | 0           |
|           |          |       | QPSK       | 1       | 1         | 20.13               |  |  |       | 21.14    | 0           |
|           |          |       |            | 1       | 123       | 21.15               |  |  |       | 21.11    | 0           |
|           |          |       |            | 1       | 243       | 21.25               |  |  |       | 20.37    | 0           |
|           |          |       |            | 120     | 0         | 20.96               |  |  |       | 21.50    | 0           |
|           |          |       |            | 120     | 63        | <b>21.32</b>        |  |  |       | 21.31    | 0           |
|           |          |       |            | 120     | 125       | <b>21.59</b>        |  |  |       | 20.86    | 0           |
|           |          |       |            | 243     | 0         | 21.27               |  |  |       | 21.21    | 0           |
|           |          | 16QAM | 1          | 1       | 20.55     |                     |  |  | 21.64 | 0        |             |
|           |          | CP    | QPSK       | 1       | 1         | 20.78               |  |  |       | 21.54    | 0           |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |             |  | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------|-------------|--|----------|---|
|           |          |       |            |         |           |                     |       | 518598      |  |          |   |
|           |          |       |            |         |           |                     |       | 2592.99 MHz |  |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                     |       | 20.46       |  |          | 0 |
|           |          |       |            | 1       | 137       |                     |       | 21.19       |  |          | 0 |
|           |          |       |            | 1       | 271       |                     |       | 20.56       |  |          | 0 |
|           |          |       |            | 135     | 0         |                     |       | 21.61       |  |          | 0 |
|           |          |       |            | 135     | 67        |                     |       | 20.95       |  |          | 0 |
|           |          |       |            | 135     | 138       |                     |       | 21.62       |  |          | 0 |
|           |          |       |            | 270     | 0         |                     |       | 21.57       |  |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                     |       | 20.26       |  |          | 0 |
|           |          |       |            | 1       | 137       |                     |       | 21.91       |  |          | 0 |
|           |          |       |            | 1       | 271       |                     |       | 20.36       |  |          | 0 |
|           |          |       |            | 135     | 0         |                     |       | 21.60       |  |          | 0 |
|           |          |       |            | 135     | 67        |                     |       | 21.91       |  |          | 0 |
|           |          |       |            | 135     | 138       |                     |       | 21.53       |  |          | 0 |
|           |          |       |            | 270     | 0         |                     |       | 21.59       |  |          | 0 |
|           |          | 16QAM | 1          | 1       |           |                     | 20.67 |             |  | 0        |   |
|           |          | CP    | QPSK       | 1       | 1         |                     |       | 20.86       |  |          | 0 |

**[ NR Band n66 Conducted Power\_ Hotspot activated]**

NR Band n66 \_5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 342500              | 346820     | 351160     | 355500     |          |
|           |          |            |            |         |           | 1712.5 MHz          | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.17               | 20.75      | 21.07      | 20.30      | 0        |
|           |          |            |            | 1       | 13        | 20.23               | 20.84      | 20.97      | 20.29      | 0        |
|           |          |            |            | 1       | 23        | 20.32               | 20.92      | 20.85      | 20.30      | 0        |
|           |          |            |            | 12      | 0         | 20.22               | 20.86      | 21.10      | 20.34      | 0        |
|           |          |            |            | 12      | 7         | 20.28               | 20.88      | 21.01      | 20.36      | 0        |
|           |          |            |            | 12      | 13        | 20.31               | 20.86      | 20.98      | 20.35      | 0        |
|           |          |            | 25         | 0       | 20.28     | 20.90               | 21.03      | 20.37      | 0          |          |
|           |          |            | QPSK       | 1       | 1         | 20.15               | 20.72      | 21.10      | 20.29      | 0        |
|           |          |            |            | 1       | 13        | 20.20               | 20.82      | 20.93      | 20.27      | 0        |
|           |          |            |            | 1       | 23        | 20.26               | 20.91      | 20.83      | 20.32      | 0        |
|           |          |            |            | 12      | 0         | 20.17               | 20.86      | 21.07      | 20.41      | 0        |
|           |          |            |            | 12      | 7         | 20.27               | 20.88      | 21.05      | 20.38      | 0        |
|           |          |            |            | 12      | 13        | 20.33               | 20.87      | 20.99      | 20.38      | 0        |
|           |          |            | 25         | 0       | 20.29     | 20.89               | 21.04      | 20.38      | 0          |          |
|           |          |            | 16QAM      | 1       | 1         | 20.20               | 20.78      | 21.16      | 20.32      | 0        |
| CP        | QPSK     | 1          | 1          | 20.27   | 20.86     | 21.14               | 20.37      | 0          |            |          |

NR Band n66 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|
|           |          |            |            |         |           | 343000              | 347000   | 351000   | 355000   |          |
|           |          |            |            |         |           | 1715 MHz            | 1735 MHz | 1755 MHz | 1775 MHz |          |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.18               | 20.68    | 21.00    | 20.21    | 0        |
|           |          |            |            | 1       | 26        | 20.32               | 20.79    | 20.87    | 20.18    | 0        |
|           |          |            |            | 1       | 50        | 20.43               | 20.87    | 20.63    | 20.15    | 0        |
|           |          |            |            | 25      | 0         | 20.17               | 20.78    | 21.03    | 20.32    | 0        |
|           |          |            |            | 25      | 14        | 20.40               | 20.89    | 20.92    | 20.27    | 0        |
|           |          |            |            | 25      | 27        | 20.47               | 20.96    | 20.86    | 20.29    | 0        |
|           |          |            | 50         | 0       | 20.34     | 20.86               | 20.92    | 20.26    | 0        |          |
|           |          |            | QPSK       | 1       | 1         | 20.11               | 20.65    | 20.97    | 20.15    | 0        |
|           |          |            |            | 1       | 26        | 20.40               | 20.79    | 20.96    | 20.11    | 0        |
|           |          |            |            | 1       | 50        | 20.42               | 20.84    | 20.59    | 20.10    | 0        |
|           |          |            |            | 25      | 0         | 20.18               | 20.79    | 21.02    | 20.29    | 0        |
|           |          |            |            | 25      | 14        | 20.36               | 20.90    | 20.91    | 20.25    | 0        |
|           |          |            |            | 25      | 27        | 20.51               | 20.94    | 20.83    | 20.27    | 0        |
|           |          |            | 50         | 0       | 20.33     | 20.87               | 20.93    | 20.24    | 0        |          |
|           |          |            | 16QAM      | 1       | 1         | 20.23               | 20.62    | 21.06    | 20.22    | 0        |
| CP        | QPSK     | 1          | 1          | 20.34   | 20.84     | 21.14               | 20.31    | 0        |          |          |

NR Band n66 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 343500              | 347160     | 350820     | 354500     |          |
|           |          |            |            |         |           | 1717.5 MHz          | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.22               | 20.76      | 21.05      | 20.37      | 0        |
|           |          |            |            | 1       | 40        | 20.53               | 21.02      | 21.04      | 20.36      | 0        |
|           |          |            |            | 1       | 77        | 20.62               | 21.10      | 20.55      | 20.20      | 0        |
|           |          |            |            | 36      | 0         | 20.31               | 20.94      | 21.16      | 20.43      | 0        |
|           |          |            |            | 36      | 22        | 20.53               | 21.04      | 21.02      | 20.37      | 0        |
|           |          |            |            | 36      | 43        | 20.68               | 21.12      | 20.88      | 20.35      | 0        |
|           |          |            |            | 75      | 0         | 20.47               | 21.05      | 21.02      | 20.42      | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.17               | 20.73      | 20.99      | 20.30      | 0        |
|           |          |            |            | 1       | 40        | 20.50               | 21.01      | 20.99      | 20.27      | 0        |
|           |          |            |            | 1       | 77        | 20.59               | 21.06      | 20.53      | 20.18      | 0        |
|           |          |            |            | 36      | 0         | 20.34               | 20.94      | 21.14      | 20.42      | 0        |
|           |          |            |            | 36      | 22        | 20.54               | 21.05      | 21.04      | 20.36      | 0        |
|           |          |            |            | 36      | 43        | 20.71               | 21.12      | 20.89      | 20.38      | 0        |
|           |          |            |            | 75      | 0         | 20.49               | 21.05      | 21.04      | 20.41      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.25               | 20.76      | 21.07      | 20.39      | 0        |
| CP        | QPSK     | 1          | 1          | 20.21   | 20.75     | 21.05               | 20.38      | 0          |            |          |

NR Band n66 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |   |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|---|----------|----------|
|           |          |            |            |         |           | 344000              | 349000   |   | 354000   |          |
|           |          |            |            |         |           | 1720 MHz            | 1745 MHz |   | 1770 MHz |          |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.13               | 20.93    |   | 20.61    | 0        |
|           |          |            |            | 1       | 53        | 20.60               | 21.34    |   | 20.42    | 0        |
|           |          |            |            | 1       | 104       | 20.66               | 21.01    |   | 20.23    | 0        |
|           |          |            |            | 50      | 0         | 20.27               | 21.15    |   | 20.62    | 0        |
|           |          |            |            | 50      | 28        | 20.63               | 21.31    |   | 20.49    | 0        |
|           |          |            |            | 50      | 56        | 20.71               | 21.29    |   | 20.41    | 0        |
|           |          |            |            | 100     | 0         | 20.46               | 21.26    |   | 20.53    | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.07               | 20.87    |   | 20.57    | 0        |
|           |          |            |            | 1       | 53        | 20.71               | 21.32    |   | 20.44    | 0        |
|           |          |            |            | 1       | 104       | 20.64               | 20.98    |   | 20.17    | 0        |
|           |          |            |            | 50      | 0         | 20.24               | 21.13    |   | 20.63    | 0        |
|           |          |            |            | 50      | 28        | 20.63               | 21.30    |   | 20.49    | 0        |
|           |          |            |            | 50      | 56        | 20.70               | 21.29    |   | 20.41    | 0        |
|           |          |            |            | 100     | 0         | 20.48               | 21.25    |   | 20.53    | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.19               | 20.94    |   | 20.46    | 0        |
| CP        | QPSK     | 1          | 1          | 20.27   | 21.01     |                     | 20.68    | 0 |          |          |

NR Band n66 \_ 25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |       |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|------------|----------|
|           |          |            |            |         |           | 344500              | 349000   |       | 353500     |          |
|           |          |            |            |         |           | 1722.5 MHz          | 1745 MHz |       | 1767.5 MHz |          |
| 25 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.06               | 20.82    |       | 20.82      | 0        |
|           |          |            |            | 1       | 66        | 20.74               | 21.37    |       | 20.57      | 0        |
|           |          |            |            | 1       | 131       | 20.74               | 20.82    |       | 20.17      | 0        |
|           |          |            |            | 64      | 0         | 20.36               | 21.18    |       | 20.71      | 0        |
|           |          |            |            | 64      | 35        | 20.67               | 21.30    |       | 20.57      | 0        |
|           |          |            |            | 64      | 69        | 20.79               | 21.23    |       | 20.39      | 0        |
|           |          |            |            | 128     | 0         | 20.55               | 21.22    |       | 20.59      | 0        |
|           |          |            | QPSK       | 1       | 1         | 20.04               | 20.81    |       | 20.76      | 0        |
|           |          |            |            | 1       | 66        | 20.68               | 21.30    |       | 20.54      | 0        |
|           |          |            |            | 1       | 131       | 20.73               | 20.80    |       | 20.14      | 0        |
|           |          |            |            | 64      | 0         | 20.38               | 21.17    |       | 20.72      | 0        |
|           |          |            |            | 64      | 35        | 20.69               | 21.32    |       | 20.60      | 0        |
|           |          |            |            | 64      | 69        | 20.81               | 21.24    |       | 20.40      | 0        |
|           |          |            |            | 128     | 0         | 20.56               | 21.23    |       | 20.59      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.14               | 20.68    |       | 20.76      | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.30    | 20.95 |            | 20.94    |

NR Band n66 \_ 30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |  |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------|--|----------|----------|
|           |          |            |            |         |           | 345000              |       |  | 353000   |          |
|           |          |            |            |         |           | 1725 MHz            |       |  | 1765 MHz |          |
| 30 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.01               |       |  | 20.93    | 0        |
|           |          |            |            | 1       | 80        | 20.75               |       |  | 20.63    | 0        |
|           |          |            |            | 1       | 158       | 20.84               |       |  | 20.09    | 0        |
|           |          |            |            | 80      | 0         | 20.41               |       |  | 20.87    | 0        |
|           |          |            |            | 80      | 40        | 20.81               |       |  | 20.70    | 0        |
|           |          |            |            | 80      | 80        | 20.96               |       |  | 20.43    | 0        |
|           |          |            |            | 160     | 0         | 20.70               |       |  | 20.66    | 0        |
|           |          |            | QPSK       | 1       | 1         | 19.99               |       |  | 20.89    | 0        |
|           |          |            |            | 1       | 80        | 20.78               |       |  | 20.64    | 0        |
|           |          |            |            | 1       | 158       | 20.81               |       |  | 20.08    | 0        |
|           |          |            |            | 80      | 0         | 20.41               |       |  | 20.86    | 0        |
|           |          |            |            | 80      | 40        | 20.83               |       |  | 20.68    | 0        |
|           |          |            |            | 80      | 80        | 20.94               |       |  | 20.42    | 0        |
|           |          |            |            | 160     | 0         | 20.68               |       |  | 20.65    | 0        |
|           |          |            | 16QAM      | 1       | 1         | 20.08               |       |  | 20.81    | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.24 |  |          | 21.04    |

NR Band n66 \_ 40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |   | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|---|----------|
|           |          |            |            |         |           |                     | 349000   |   |          |
| 40 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                     | 1745 MHz |   | 0        |
|           |          |            |            | 1       | 108       |                     |          |   | 0        |
|           |          |            |            | 1       | 214       |                     |          |   | 0        |
|           |          |            |            | 108     | 0         |                     |          |   | 0        |
|           |          |            |            | 108     | 54        |                     |          |   | 0        |
|           |          |            |            | 108     | 108       |                     |          |   | 0        |
|           |          |            |            | 216     | 0         |                     |          |   | 0        |
|           |          |            | QPSK       | 1       | 1         |                     |          |   | 0        |
|           |          |            |            | 1       | 108       |                     |          |   | 0        |
|           |          |            |            | 1       | 214       |                     |          |   | 0        |
|           |          |            |            | 108     | 0         |                     |          |   | 0        |
|           |          |            |            | 108     | 54        |                     |          |   | 0        |
|           |          |            |            | 108     | 108       |                     |          |   | 0        |
|           |          |            | 216        | 0       |           |                     |          | 0 |          |
|           |          |            | 16QAM      | 1       | 1         |                     |          |   | 0        |
|           |          | CP         | QPSK       | 1       | 1         |                     |          | 0 |          |

[ NR Band n77 Conducted Power\_ Hotspot activated]

NR Band n77\_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          |          |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|----------|----------|
|           |          |            |            |         |           | 647000              | 650600   | 654200   | 657800   | 661400   | 665000   |          |
|           |          |            |            |         |           | 3705 MHz            | 3759 MHz | 3813 MHz | 3867 MHz | 3921 MHz | 3975 MHz |          |
| 10 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.85               | 21.24    | 20.76    | 20.44    | 20.97    | 21.17    | 0        |
|           |          |            |            | 1       | 12        | 20.96               | 21.25    | 20.81    | 20.66    | 21.05    | 21.43    | 0        |
|           |          |            |            | 1       | 22        | 20.90               | 21.18    | 20.66    | 20.45    | 21.06    | 21.17    | 0        |
|           |          |            |            | 12      | 0         | 20.95               | 21.28    | 20.83    | 20.51    | 21.07    | 21.30    | 0        |
|           |          |            |            | 12      | 6         | 20.97               | 21.28    | 20.81    | 20.54    | 21.11    | 21.33    | 0        |
|           |          |            |            | 12      | 12        | 20.97               | 21.28    | 20.79    | 20.51    | 21.12    | 21.34    | 0        |
|           |          |            | QPSK       | 24      | 0         | 20.93               | 21.27    | 20.81    | 20.52    | 21.09    | 21.30    | 0        |
|           |          |            |            | 1       | 1         | 20.87               | 21.25    | 20.80    | 20.47    | 20.98    | 21.13    | 0        |
|           |          |            |            | 1       | 12        | 21.05               | 21.35    | 20.83    | 20.57    | 21.13    | 21.25    | 0        |
|           |          |            |            | 1       | 22        | 20.92               | 21.17    | 20.71    | 20.49    | 21.07    | 21.15    | 0        |
|           |          |            |            | 12      | 0         | 20.95               | 21.30    | 20.83    | 20.53    | 21.08    | 21.32    | 0        |
|           |          |            |            | 12      | 6         | 20.96               | 21.30    | 20.82    | 20.50    | 21.10    | 21.35    | 0        |
|           |          |            |            | 12      | 12        | 20.97               | 21.27    | 20.80    | 20.52    | 21.14    | 21.36    | 0        |
|           |          |            |            | 24      | 0         | 20.95               | 21.33    | 20.84    | 20.53    | 21.12    | 21.37    | 0        |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.90    | 21.26    | 20.83    | 20.46    | 20.96    | 21.14    |
| CP        | QPSK     | 1          | 1          | 20.89   | 21.26     | 20.75               | 20.42    | 20.95    | 21.23    | 0        |          |          |

NR Band n77\_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |             |            |            |             | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|-------------|------------|------------|-------------|----------|---|
|           |          |            |            |         |           | 647166              | 650700     | 654232      | 657766     | 661300     | 664832      |          |   |
|           |          |            |            |         |           | 3707.5 MHz          | 3760.5 MHz | 3813.49 MHz | 3866.5 MHz | 3919.5 MHz | 3972.49 MHz |          |   |
| 15 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.84               | 21.24      | 20.75       | 20.45      | 20.86      | 21.30       | 0        |   |
|           |          |            |            | 1       | 18        | 21.02               | 21.30      | 20.78       | 20.46      | 21.03      | 21.39       | 0        |   |
|           |          |            |            | 1       | 36        | 21.01               | 21.17      | 20.65       | 20.42      | 21.02      | 21.33       | 0        |   |
|           |          |            |            | 18      | 0         | 20.97               | 21.31      | 20.82       | 20.55      | 21.06      | 21.43       | 0        |   |
|           |          |            |            | 18      | 9         | 21.05               | 21.33      | 20.81       | 20.54      | 21.08      | 21.45       | 0        |   |
|           |          |            |            | 18      | 18        | 21.10               | 21.29      | 20.81       | 20.52      | 21.12      | 21.46       | 0        |   |
|           |          |            | QPSK       | 36      | 0         | 21.00               | 21.32      | 20.82       | 20.56      | 21.08      | 21.44       | 0        |   |
|           |          |            |            | 1       | 1         | 20.91               | 21.29      | 20.81       | 20.48      | 20.93      | 21.31       | 0        |   |
|           |          |            |            | 1       | 18        | 21.05               | 21.33      | 20.78       | 20.52      | 21.03      | 21.42       | 0        |   |
|           |          |            |            | 1       | 36        | 21.01               | 21.18      | 20.71       | 20.45      | 21.03      | 21.37       | 0        |   |
|           |          |            |            | 18      | 0         | 21.01               | 21.35      | 20.86       | 20.56      | 21.08      | 21.47       | 0        |   |
|           |          |            |            | 18      | 9         | 21.06               | 21.33      | 20.85       | 20.56      | 21.10      | 21.47       | 0        |   |
|           |          |            |            | 18      | 18        | 21.12               | 21.28      | 20.81       | 20.55      | 21.15      | 21.48       | 0        |   |
|           |          |            |            | 36      | 0         | 21.04               | 21.34      | 20.86       | 20.57      | 21.07      | 21.47       | 0        |   |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.90      | 21.29       | 20.82      | 20.49      | 20.92       | 21.35    | 0 |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.92      | 21.26       | 20.80      | 20.45      | 20.90       | 21.29    | 0 |

NR Band n77\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          |          |          |             | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|-------------|----------|---|
|           |          |            |            |         |           | 347334              | 650800   | 654266   | 657733   | 661200   | 664666      |          |   |
|           |          |            |            |         |           | 3710 MHz            | 3762 MHz | 3814 MHz | 3866 MHz | 3918 MHz | 3969.99 MHz |          |   |
| 20 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.89               | 21.24    | 20.73    | 20.39    | 20.77    | 21.17       | 0        |   |
|           |          |            |            | 1       | 26        | 21.06               | 21.30    | 20.75    | 20.42    | 20.95    | 21.29       | 0        |   |
|           |          |            |            | 1       | 49        | 21.06               | 21.08    | 20.62    | 20.36    | 20.96    | 21.21       | 0        |   |
|           |          |            |            | 25      | 0         | 21.06               | 21.37    | 20.85    | 20.50    | 20.91    | 21.33       | 0        |   |
|           |          |            |            | 25      | 13        | 21.10               | 21.33    | 20.79    | 20.50    | 21.01    | 21.34       | 0        |   |
|           |          |            |            | 25      | 26        | 21.14               | 21.26    | 20.75    | 20.47    | 21.04    | 21.33       | 0        |   |
|           |          |            | QPSK       | 50      | 0         | 21.08               | 21.31    | 20.81    | 20.49    | 20.99    | 21.32       | 0        |   |
|           |          |            |            | 1       | 1         | 20.93               | 21.28    | 20.74    | 20.37    | 20.77    | 21.17       | 0        |   |
|           |          |            |            | 1       | 26        | 21.10               | 21.28    | 20.76    | 20.43    | 20.95    | 21.32       | 0        |   |
|           |          |            |            | 1       | 49        | 21.10               | 21.11    | 20.66    | 20.38    | 20.95    | 21.26       | 0        |   |
|           |          |            |            | 25      | 0         | 21.07               | 21.38    | 20.86    | 20.52    | 20.92    | 21.35       | 0        |   |
|           |          |            |            | 25      | 13        | 21.10               | 21.35    | 20.81    | 20.51    | 21.04    | 21.39       | 0        |   |
|           |          |            | 16QAM      | 25      | 26        | 21.17               | 21.26    | 20.78    | 20.48    | 21.04    | 21.35       | 0        |   |
|           |          |            |            | 50      | 0         | 21.12               | 21.33    | 20.86    | 20.54    | 21.04    | 21.35       | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.92    | 21.29    | 20.78    | 20.37    | 20.79       | 21.17    | 0 |

NR Band n77\_25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            |            |            |            | MPR [dB] |       |       |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|------------|------------|----------|-------|-------|---|
|           |          |            |            |         |           | 647500              | 650900     | 654300     | 657700     | 661100     | 664500     |          |       |       |   |
|           |          |            |            |         |           | 3712.5 MHz          | 3763.5 MHz | 3814.5 MHz | 3865.5 MHz | 3916.5 MHz | 3967.5 MHz |          |       |       |   |
| 25 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.78               | 21.18      | 20.63      | 20.25      | 20.61      | 21.06      | 0        |       |       |   |
|           |          |            |            | 1       | 32        | 21.25               | 21.37      | 20.79      | 20.56      | 21.04      | 21.50      | 0        |       |       |   |
|           |          |            |            | 1       | 63        | 21.04               | 20.95      | 20.50      | 20.24      | 20.85      | 21.16      | 0        |       |       |   |
|           |          |            |            | 32      | 0         | 21.08               | 21.34      | 20.84      | 20.45      | 20.87      | 21.31      | 0        |       |       |   |
|           |          |            |            | 32      | 16        | 21.21               | 21.35      | 20.83      | 20.52      | 20.98      | 21.38      | 0        |       |       |   |
|           |          |            |            | 32      | 32        | 21.19               | 21.25      | 20.75      | 20.47      | 21.01      | 21.39      | 0        |       |       |   |
|           |          |            | QPSK       | 64      | 0         | 21.13               | 21.29      | 20.81      | 20.48      | 20.94      | 21.34      | 0        |       |       |   |
|           |          |            |            | 1       | 1         | 20.81               | 21.16      | 20.62      | 20.28      | 20.61      | 21.10      | 0        |       |       |   |
|           |          |            |            | 1       | 32        | 21.27               | 21.26      | 20.85      | 20.54      | 21.00      | 21.42      | 0        |       |       |   |
|           |          |            |            | 1       | 63        | 21.02               | 20.94      | 20.56      | 20.28      | 20.87      | 21.19      | 0        |       |       |   |
|           |          |            |            | 32      | 0         | 21.07               | 21.36      | 20.85      | 20.47      | 20.86      | 21.32      | 0        |       |       |   |
|           |          |            |            | 32      | 16        | 21.21               | 21.36      | 20.85      | 20.53      | 21.01      | 21.42      | 0        |       |       |   |
|           |          |            | 16QAM      | 32      | 32        | 21.21               | 21.26      | 20.76      | 20.47      | 21.04      | 21.39      | 0        |       |       |   |
|           |          |            |            | 64      | 0         | 21.15               | 21.32      | 20.83      | 20.48      | 20.97      | 21.35      | 0        |       |       |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.79      | 21.16      | 20.70      | 20.31      | 20.63      | 21.10    | 0     |       |   |
|           |          |            |            |         |           |                     |            |            | 20.86      | 21.29      | 20.69      | 20.26    | 20.62 | 21.07 | 0 |



NR Band n77\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |                |                |             |                | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------------|----------------|----------------|-------------|----------------|----------|
|           |          |            |            |         |           | 647666              | 651000      | 654334         | 657666         | 661000      | 664334         |          |
|           |          |            |            |         |           | 3714.99<br>MHz      | 3765<br>MHz | 3815.01<br>MHz | 3864.99<br>MHz | 3915<br>MHz | 3965.01<br>MHz |          |
| 30 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.78               | 21.03       | 20.47          | 20.31          | 20.46       | 20.90          | 0        |
|           |          |            |            | 1       | 39        | 21.19               | 21.21       | 20.69          | 20.72          | 20.92       | 21.28          | 0        |
|           |          |            |            | 1       | 76        | 21.04               | 20.74       | 20.29          | 20.33          | 20.72       | 21.06          | 0        |
|           |          |            |            | 36      | 0         | 21.08               | 21.18       | 20.68          | 20.59          | 20.81       | 21.22          | 0        |
|           |          |            |            | 36      | 21        | 21.25               | 21.18       | 20.67          | 20.68          | 20.94       | 21.33          | 0        |
|           |          |            |            | 36      | 42        | 21.22               | 21.04       | 20.56          | 20.58          | 20.96       | 21.28          | 0        |
|           |          |            | 75         | 0       | 21.21     | 21.11               | 20.62       | 20.62          | 20.89          | 21.26       | 0              |          |
|           |          |            | QPSK       | 1       | 1         | 20.80               | 21.01       | 20.49          | 20.39          | 20.49       | 20.95          | 0        |
|           |          |            |            | 1       | 39        | 21.29               | 21.23       | 20.65          | 20.66          | 20.94       | 21.27          | 0        |
|           |          |            |            | 1       | 76        | 21.08               | 20.75       | 20.36          | 20.37          | 20.78       | 21.10          | 0        |
|           |          |            |            | 36      | 0         | 21.09               | 21.20       | 20.68          | 20.61          | 20.83       | 21.24          | 0        |
|           |          |            |            | 36      | 21        | 21.29               | 21.21       | 20.72          | 20.70          | 20.95       | 21.36          | 0        |
|           |          |            |            | 36      | 42        | 21.25               | 21.06       | 20.58          | 20.60          | 20.98       | 21.29          | 0        |
|           |          |            | 75         | 0       | 21.20     | 21.12               | 20.64       | 20.64          | 20.90          | 21.29       | 0              |          |
|           |          |            | 16QAM      | 1       | 1         | 20.82               | 21.03       | 20.49          | 20.40          | 20.48       | 20.93          | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.82       | 21.04          | 20.53          | 20.38       | 20.46          | 20.91    |

NR Band n77\_40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |             |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|-------------|----------|
|           |          |            |            |         |           | 648000              | 651200      | 654400      | 657600      | 660800      | 664000      |          |
|           |          |            |            |         |           | 3720<br>MHz         | 3768<br>MHz | 3816<br>MHz | 3864<br>MHz | 3912<br>MHz | 3960<br>MHz |          |
| 40 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.49               | 20.83       | 20.32       | 20.10       | 20.24       | 20.76       | 0        |
|           |          |            |            | 1       | 53        | 21.18               | 21.16       | 20.72       | 20.71       | 21.08       | 21.45       | 0        |
|           |          |            |            | 1       | 104       | 20.85               | 20.53       | 20.11       | 20.13       | 20.67       | 20.95       | 0        |
|           |          |            |            | 50      | 0         | 20.96               | 21.14       | 20.66       | 20.54       | 20.77       | 21.22       | 0        |
|           |          |            |            | 50      | 28        | 21.21               | 21.16       | 20.67       | 20.65       | 21.00       | 21.40       | 0        |
|           |          |            |            | 50      | 56        | 21.17               | 20.96       | 20.51       | 20.52       | 20.97       | 21.28       | 0        |
|           |          |            | 100        | 0       | 21.06     | 21.11               | 20.64       | 20.57       | 20.92       | 21.30       | 0           |          |
|           |          |            | QPSK       | 1       | 1         | 20.51               | 20.90       | 20.31       | 20.10       | 20.27       | 20.80       | 0        |
|           |          |            |            | 1       | 53        | 21.25               | 21.24       | 20.58       | 20.64       | 21.02       | 21.47       | 0        |
|           |          |            |            | 1       | 104       | 20.87               | 20.57       | 20.07       | 20.19       | 20.72       | 20.98       | 0        |
|           |          |            |            | 50      | 0         | 20.97               | 21.16       | 20.68       | 20.55       | 20.78       | 21.27       | 0        |
|           |          |            |            | 50      | 28        | 21.21               | 21.18       | 20.67       | 20.64       | 21.02       | 21.42       | 0        |
|           |          |            |            | 50      | 56        | 21.18               | 20.99       | 20.54       | 20.55       | 21.00       | 21.32       | 0        |
|           |          |            | 100        | 0       | 21.09     | 21.14               | 20.66       | 20.59       | 20.93       | 21.35       | 0           |          |
|           |          |            | 16QAM      | 1       | 1         | 20.53               | 20.90       | 20.34       | 20.16       | 20.29       | 20.78       | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.52       | 20.88       | 20.41       | 20.17       | 20.31       | 20.78    |

NR Band n77\_ 50 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |       |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------------|-------------|-------|-------------|-------------|----------|
|           |          |            |            |         |           | 648334              | 652134      | 655934      |       | 659800      | 663666      |          |
|           |          |            |            |         |           | 3725<br>MHz         | 3782<br>MHz | 3839<br>MHz |       | 3896<br>MHz | 3955<br>MHz |          |
| 50 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.62               | 21.04       | 20.43       |       | 20.25       | 20.95       | 0        |
|           |          |            |            | 1       | 67        | 21.11               | 21.07       | 20.63       |       | 20.75       | 21.38       | 0        |
|           |          |            |            | 1       | 131       | 21.09               | 20.58       | 20.35       |       | 20.77       | 21.19       | 0        |
|           |          |            |            | 64      | 0         | 20.97               | 21.23       | 20.63       |       | 20.59       | 21.37       | 0        |
|           |          |            |            | 64      | 35        | 21.18               | 21.15       | 20.69       |       | 20.82       | 21.48       | 0        |
|           |          |            |            | 64      | 69        | 21.25               | 20.95       | 20.60       |       | 20.89       | 21.45       | 0        |
|           |          |            | QPSK       | 128     | 0         | 21.10               | 21.11       | 20.62       |       | 20.73       | 21.40       | 0        |
|           |          |            |            | 1       | 1         | 20.68               | 21.06       | 20.48       |       | 20.30       | 21.01       | 0        |
|           |          |            |            | 1       | 67        | 21.16               | 21.09       | 20.67       |       | 20.77       | 21.42       | 0        |
|           |          |            |            | 1       | 131       | 21.13               | 20.62       | 20.38       |       | 20.82       | 21.22       | 0        |
|           |          |            |            | 64      | 0         | 21.01               | 21.25       | 20.65       |       | 20.61       | 21.40       | 0        |
|           |          |            |            | 64      | 35        | 21.19               | 21.16       | 20.71       |       | 20.84       | 21.50       | 0        |
|           |          |            |            | 64      | 69        | 21.29               | 20.95       | 20.61       |       | 20.92       | 21.46       | 0        |
|           |          |            |            | 128     | 0         | 21.10               | 21.13       | 20.65       |       | 20.76       | 21.44       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.73       | 21.09       | 20.50 |             | 20.36       | 21.01    |
| CP        | QPSK     | 1          | 1          | 20.71   | 21.08     | 20.48               |             | 20.31       | 20.98 | 0           |             |          |

NR Band n77\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |       |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------------|-------------|-------|-------------|-------------|----------|
|           |          |            |            |         |           | 648666              | 652334      | 656000      |       | 659666      | 663334      |          |
|           |          |            |            |         |           | 3730<br>MHz         | 3730<br>MHz | 3840<br>MHz |       | 3895<br>MHz | 3950<br>MHz |          |
| 60 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.61               | 20.89       | 20.34       |       | 20.17       | 20.67       | 0        |
|           |          |            |            | 1       | 81        | 21.16               | 20.99       | 20.67       |       | 20.90       | 21.36       | 0        |
|           |          |            |            | 1       | 160       | 21.00               | 20.36       | 20.21       |       | 20.70       | 21.12       | 0        |
|           |          |            |            | 81      | 0         | 21.06               | 21.06       | 20.66       |       | 20.61       | 21.17       | 0        |
|           |          |            |            | 81      | 41        | 21.30               | 20.97       | 20.71       |       | 20.89       | 21.36       | 0        |
|           |          |            |            | 81      | 81        | 21.33               | 20.74       | 20.55       |       | 20.92       | 21.33       | 0        |
|           |          |            | QPSK       | 162     | 0         | 21.15               | 20.91       | 20.58       |       | 20.77       | 21.25       | 0        |
|           |          |            |            | 1       | 1         | 20.68               | 20.92       | 20.33       |       | 20.19       | 20.70       | 0        |
|           |          |            |            | 1       | 81        | 21.32               | 20.96       | 20.61       |       | 20.81       | 21.35       | 0        |
|           |          |            |            | 1       | 160       | 21.06               | 20.38       | 20.21       |       | 20.73       | 21.14       | 0        |
|           |          |            |            | 81      | 0         | 21.05               | 21.05       | 20.66       |       | 20.63       | 21.19       | 0        |
|           |          |            |            | 81      | 41        | 21.31               | 20.99       | 20.73       |       | 20.92       | 21.38       | 0        |
|           |          |            |            | 81      | 81        | 21.31               | 20.75       | 20.57       |       | 20.94       | 21.33       | 0        |
|           |          |            |            | 162     | 0         | 21.17               | 20.93       | 20.64       |       | 20.78       | 21.27       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.71       | 20.92       | 20.40 |             | 20.21       | 20.72    |
| CP        | QPSK     | 1          | 1          | 20.59   | 20.91     | 20.39               |             | 20.26       | 20.73 | 0           |             |          |

NR Band n77\_ 80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |       |  |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------------|-------|--|-------------|-------------|----------|
|           |          |            |            |         |           | 662666              | 653800      |       |  | 658200      | 662666      |          |
|           |          |            |            |         |           | 3740<br>MHz         | 3807<br>MHz |       |  | 3873<br>MHz | 3940<br>MHz |          |
| 80 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.25               | 20.63       |       |  | 20.04       | 20.24       | 0        |
|           |          |            |            | 1       | 109       | 21.19               | 20.68       |       |  | 20.53       | 21.18       | 0        |
|           |          |            |            | 1       | 215       | 20.92               | 20.15       |       |  | 20.45       | 20.93       | 0        |
|           |          |            |            | 108     | 0         | 20.99               | 20.91       |       |  | 20.53       | 20.98       | 0        |
|           |          |            |            | 108     | 55        | 21.27               | 20.79       |       |  | 20.65       | 21.26       | 0        |
|           |          |            |            | 108     | 109       | 21.32               | 20.63       |       |  | 20.69       | 21.31       | 0        |
|           |          |            | QPSK       | 216     | 0         | 21.10               | 20.77       |       |  | 20.58       | 21.10       | 0        |
|           |          |            |            | 1       | 1         | 20.31               | 20.68       |       |  | 20.08       | 20.29       | 0        |
|           |          |            |            | 1       | 109       | 21.24               | 20.76       |       |  | 20.59       | 21.26       | 0        |
|           |          |            |            | 1       | 215       | 20.99               | 20.20       |       |  | 20.49       | 20.98       | 0        |
|           |          |            |            | 108     | 0         | 21.00               | 20.93       |       |  | 20.54       | 21.00       | 0        |
|           |          |            |            | 108     | 55        | 21.31               | 20.81       |       |  | 20.67       | 21.31       | 0        |
|           |          |            |            | 108     | 109       | 21.34               | 20.65       |       |  | 20.74       | 21.34       | 0        |
|           |          |            |            | 216     | 0         | 21.14               | 20.77       |       |  | 20.59       | 21.13       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.30       | 20.80 |  |             | 20.13       | 20.37    |
|           |          | CP         | QPSK       | 1       | 1         | 20.28               | 20.67       |       |  | 20.06       | 20.28       | 0        |

NR Band n77\_ 90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |             |       |             |       | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------|-------------|-------|-------------|-------|----------|
|           |          |            |            |         |           | 649666              |       | 656000      |       | 662334      |       |          |
|           |          |            |            |         |           | 3745<br>MHz         |       | 3840<br>MHz |       | 3935<br>MHz |       |          |
| 90 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.33               |       | 20.22       |       | 19.92       |       | 0        |
|           |          |            |            | 1       | 123       | 21.38               |       | 20.59       |       | 21.02       |       | 0        |
|           |          |            |            | 1       | 243       | 20.40               |       | 20.02       |       | 20.76       |       | 0        |
|           |          |            |            | 120     | 0         | 21.09               |       | 20.62       |       | 20.76       |       | 0        |
|           |          |            |            | 120     | 63        | 21.38               |       | 20.66       |       | 21.12       |       | 0        |
|           |          |            |            | 120     | 125       | 21.14               |       | 20.50       |       | 21.18       |       | 0        |
|           |          |            | QPSK       | 243     | 0         | 21.15               |       | 20.59       |       | 21.00       |       | 0        |
|           |          |            |            | 1       | 1         | 20.38               |       | 20.27       |       | 19.94       |       | 0        |
|           |          |            |            | 1       | 123       | 21.44               |       | 20.65       |       | 21.06       |       | 0        |
|           |          |            |            | 1       | 243       | 20.45               |       | 20.08       |       | 20.78       |       | 0        |
|           |          |            |            | 120     | 0         | 21.10               |       | 20.64       |       | 20.78       |       | 0        |
|           |          |            |            | 120     | 63        | 21.39               |       | 20.66       |       | 21.18       |       | 0        |
|           |          |            |            | 120     | 125       | 21.16               |       | 20.53       |       | 21.19       |       | 0        |
|           |          |            |            | 243     | 0         | 21.15               |       | 20.61       |       | 21.02       |       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.53 |             | 20.17 |             | 19.91 |          |
|           |          | CP         | QPSK       | 1       | 1         | 20.35               |       | 20.23       |       | 20.03       |       | 0        |

NR Band n77\_ 100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM          | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |             |       |             |       | MPR [dB] |
|-----------|----------|---------------|------------|---------|-----------|---------------------|-------|-------------|-------|-------------|-------|----------|
|           |          |               |            |         |           | 650000              |       | 656000      |       | 662000      |       |          |
|           |          |               |            |         |           | 3750<br>MHz         |       | 3840<br>MHz |       | 3930<br>MHz |       |          |
| 100 MHz   | 30       | DFT-s<br>OFDM | PI/2 BPSK  | 1       | 1         | 20.17               |       | 20.12       |       | 19.75       |       | 0        |
|           |          |               |            | 1       | 137       | 21.32               |       | 20.59       |       | 21.08       |       | 0        |
|           |          |               |            | 1       | 271       | 20.19               |       | 19.97       |       | 20.70       |       | 0        |
|           |          |               |            | 135     | 0         | 20.98               |       | 20.59       |       | 20.71       |       | 0        |
|           |          |               |            | 135     | 67        | 21.29               |       | 20.64       |       | 21.14       |       | 0        |
|           |          |               |            | 135     | 138       | 21.01               |       | 20.48       |       | 21.15       |       | 0        |
|           |          |               | QPSK       | 270     | 0         | 20.98               |       | 20.52       |       | 20.95       |       | 0        |
|           |          |               |            | 1       | 1         | 20.22               |       | 20.18       |       | 19.79       |       | 0        |
|           |          |               |            | 1       | 137       | 21.44               |       | 20.64       |       | 21.13       |       | 0        |
|           |          |               |            | 1       | 271       | 20.27               |       | 20.05       |       | 20.76       |       | 0        |
|           |          |               |            | 135     | 0         | 21.00               |       | 20.60       |       | 20.73       |       | 0        |
|           |          |               |            | 135     | 67        | 21.32               |       | 20.65       |       | 21.16       |       | 0        |
|           |          |               |            | 135     | 138       | 21.02               |       | 20.50       |       | 21.18       |       | 0        |
|           |          |               |            | 270     | 0         | 21.00               |       | 20.52       |       | 20.98       |       | 0        |
|           |          |               |            | 16QAM   | 1         | 1                   | 20.25 |             | 20.20 |             | 19.81 |          |
|           |          | CP            | QPSK       | 1       | 1         | 20.20               |       | 20.17       |       | 19.75       |       | 0        |

### 11.5.3 NR Band Reduced Conducted Power(Grip Sensor on)

[ NR Band n2 Conducted Power \_ Grip Sensor on]

NR Band n2 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
|           |          |            |            |         |           | 370500              | 376000   | 381500     |          |
|           |          |            |            |         |           | 1852.5 MHz          | 1880 MHz | 1907.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.80               | 17.70    | 17.81      | 0        |
|           |          |            |            | 1       | 13        | 17.76               | 17.73    | 17.92      | 0        |
|           |          |            |            | 1       | 23        | 17.68               | 17.75    | 17.97      | 0        |
|           |          |            |            | 12      | 0         | 17.85               | 17.81    | 17.93      | 0        |
|           |          |            |            | 12      | 7         | 17.81               | 17.74    | 17.97      | 0        |
|           |          |            |            | 12      | 13        | 17.76               | 17.79    | 17.95      | 0        |
|           |          |            |            | 25      | 0         | 17.84               | 17.80    | 17.97      | 0        |
|           |          |            | QPSK       | 1       | 1         | 17.81               | 17.69    | 17.81      | 0        |
|           |          |            |            | 1       | 13        | 17.78               | 17.71    | 17.90      | 0        |
|           |          |            |            | 1       | 23        | 17.69               | 17.75    | 17.95      | 0        |
|           |          |            |            | 12      | 0         | 17.89               | 17.79    | 17.97      | 0        |
|           |          |            |            | 12      | 7         | 17.84               | 17.79    | 17.96      | 0        |
|           |          |            |            | 12      | 13        | 17.73               | 17.74    | 17.99      | 0        |
|           |          |            |            | 25      | 0         | 17.85               | 17.81    | 17.98      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 17.81               | 17.75    | 17.86      | 0        |
| CP        | QPSK     | 1          | 1          | 17.84   | 17.76     | 17.90               | 0        |            |          |

NR Band n2 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
|           |          |            |            |         |           | 371000              | 376000   | 381000   |          |   |
|           |          |            |            |         |           | 1855 MHz            | 1880 MHz | 1905 MHz |          |   |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.78               | 17.52    | 17.64    | 0        |   |
|           |          |            |            | 1       | 26        | 17.63               | 17.60    | 17.74    | 0        |   |
|           |          |            |            | 1       | 50        | 17.50               | 17.60    | 17.82    | 0        |   |
|           |          |            |            | 25      | 0         | 17.78               | 17.63    | 17.81    | 0        |   |
|           |          |            |            | 25      | 14        | 17.72               | 17.67    | 17.80    | 0        |   |
|           |          |            |            | 25      | 27        | 17.64               | 17.64    | 17.84    | 0        |   |
|           |          |            |            | 50      | 0         | 17.72               | 17.61    | 17.80    | 0        |   |
|           |          |            | QPSK       | 1       | 1         | 17.74               | 17.53    | 17.65    | 0        |   |
|           |          |            |            | 1       | 26        | 17.67               | 17.63    | 17.76    | 0        |   |
|           |          |            |            | 1       | 50        | 17.44               | 17.60    | 17.78    | 0        |   |
|           |          |            |            | 25      | 0         | 17.79               | 17.64    | 17.83    | 0        |   |
|           |          |            |            | 25      | 14        | 17.70               | 17.67    | 17.78    | 0        |   |
|           |          |            |            | 25      | 27        | 17.63               | 17.63    | 17.84    | 0        |   |
|           |          |            |            | 50      | 0         | 17.72               | 17.62    | 17.82    | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 17.31               | 17.50    | 17.29    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 17.82    | 17.61    | 17.76    | 0 |

NR Band n2\_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|------------|----------|
|           |          |            |            |         |           | 371500              | 376000   | 380500     |          |
|           |          |            |            |         |           | 1857.5 MHz          | 1880 MHz | 1902.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.81               | 17.61    | 17.68      | 0        |
|           |          |            |            | 1       | 40        | 17.74               | 17.81    | 17.83      | 0        |
|           |          |            |            | 1       | 77        | 17.59               | 17.67    | 17.85      | 0        |
|           |          |            |            | 36      | 0         | 17.87               | 17.79    | 17.86      | 0        |
|           |          |            |            | 36      | 22        | 17.78               | 17.85    | 17.89      | 0        |
|           |          |            |            | 36      | 43        | 17.72               | 17.83    | 17.91      | 0        |
|           |          |            |            | 75      | 0         | 17.81               | 17.79    | 17.90      | 0        |
|           |          |            | QPSK       | 1       | 1         | 17.81               | 17.63    | 17.71      | 0        |
|           |          |            |            | 1       | 40        | 17.70               | 17.77    | 17.79      | 0        |
|           |          |            |            | 1       | 77        | 17.61               | 17.64    | 17.83      | 0        |
|           |          |            |            | 36      | 0         | 17.89               | 17.80    | 17.84      | 0        |
|           |          |            |            | 36      | 22        | 17.79               | 17.86    | 17.88      | 0        |
|           |          |            |            | 36      | 43        | 17.72               | 17.86    | 17.91      | 0        |
|           |          |            |            | 75      | 0         | 17.82               | 17.81    | 17.91      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 17.85               | 17.20    | 17.69      | 0        |
| CP        | QPSK     | 1          | 1          | 17.78   | 17.60     | 17.64               | 0        |            |          |

NR Band n2\_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|---|
|           |          |            |            |         |           | 372000              | 376000   | 380000   |          |   |
|           |          |            |            |         |           | 1860 MHz            | 1880 MHz | 1900 MHz |          |   |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.78               | 17.55    | 17.70    | 0        |   |
|           |          |            |            | 1       | 53        | 17.69               | 17.81    | 17.84    | 0        |   |
|           |          |            |            | 1       | 104       | 17.55               | 17.65    | 17.82    | 0        |   |
|           |          |            |            | 50      | 0         | 17.81               | 17.75    | 17.82    | 0        |   |
|           |          |            |            | 50      | 28        | 17.74               | 17.81    | 17.86    | 0        |   |
|           |          |            |            | 50      | 56        | 17.69               | 17.78    | 17.80    | 0        |   |
|           |          |            |            | 100     | 0         | 17.77               | 17.80    | 17.87    | 0        |   |
|           |          |            | QPSK       | 1       | 1         | 17.73               | 17.48    | 17.67    | 0        |   |
|           |          |            |            | 1       | 53        | 17.67               | 17.91    | 17.95    | 0        |   |
|           |          |            |            | 1       | 104       | 17.52               | 17.63    | 17.78    | 0        |   |
|           |          |            |            | 50      | 0         | 17.83               | 17.75    | 17.85    | 0        |   |
|           |          |            |            | 50      | 28        | 17.75               | 17.81    | 17.90    | 0        |   |
|           |          |            |            | 50      | 56        | 17.69               | 17.82    | 17.80    | 0        |   |
|           |          |            |            | 100     | 0         | 17.79               | 17.80    | 17.85    | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 17.80               | 17.56    | 17.71    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 17.81    | 17.53    | 17.80    | 0 |

**[ NR Band n25 Conducted Power \_ Grip Sensor on]**

NR Band n25 \_ 5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
|           |          |            |            |         |           | 370500              | 376500     | 382500     |          |
|           |          |            |            |         |           | 1852.5 MHz          | 1882.5 MHz | 1912.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.28               | 17.14      | 17.44      | 0        |
|           |          |            |            | 1       | 13        | 17.25               | 17.22      | 17.56      | 0        |
|           |          |            |            | 1       | 23        | 17.14               | 17.22      | 17.65      | 0        |
|           |          |            |            | 12      | 0         | 17.35               | 17.27      | 17.57      | 0        |
|           |          |            |            | 12      | 7         | 17.23               | 17.21      | 17.58      | 0        |
|           |          |            |            | 12      | 13        | 17.25               | 17.28      | 17.66      | 0        |
|           |          |            | QPSK       | 25      | 0         | 17.28               | 17.29      | 17.63      | 0        |
|           |          |            |            | 1       | 1         | 17.29               | 17.16      | 17.42      | 0        |
|           |          |            |            | 1       | 13        | 17.21               | 17.21      | 17.52      | 0        |
|           |          |            |            | 1       | 23        | 17.14               | 17.20      | 17.65      | 0        |
|           |          |            |            | 12      | 0         | 17.34               | 17.23      | 17.59      | 0        |
|           |          |            |            | 12      | 7         | 17.30               | 17.25      | 17.63      | 0        |
|           |          |            | 16QAM      | 12      | 13        | 17.22               | 17.29      | 17.65      | 0        |
|           |          |            |            | 25      | 0         | 17.31               | 17.27      | 17.68      | 0        |
|           |          |            |            | 1       | 1         | 17.31               | 17.22      | 17.46      | 0        |
| CP        | QPSK     | 1          | 1          | 17.35   | 17.24     | 17.51               | 0          |            |          |

NR Band n25 \_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|---|
|           |          |            |            |         |           | 371000              | 376500     | 382000   |          |   |
|           |          |            |            |         |           | 1855 MHz            | 1882.5 MHz | 1910 MHz |          |   |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.25               | 17.01      | 17.09    | 0        |   |
|           |          |            |            | 1       | 26        | 17.11               | 17.09      | 17.34    | 0        |   |
|           |          |            |            | 1       | 50        | 17.03               | 17.05      | 17.48    | 0        |   |
|           |          |            |            | 25      | 0         | 17.25               | 17.10      | 17.32    | 0        |   |
|           |          |            |            | 25      | 14        | 17.20               | 17.16      | 17.42    | 0        |   |
|           |          |            |            | 25      | 27        | 17.14               | 17.13      | 17.52    | 0        |   |
|           |          |            | QPSK       | 50      | 0         | 17.19               | 17.14      | 17.39    | 0        |   |
|           |          |            |            | 1       | 1         | 17.23               | 16.94      | 17.12    | 0        |   |
|           |          |            |            | 1       | 26        | 17.15               | 17.12      | 17.37    | 0        |   |
|           |          |            |            | 1       | 50        | 16.98               | 17.03      | 17.48    | 0        |   |
|           |          |            |            | 25      | 0         | 17.27               | 17.13      | 17.29    | 0        |   |
|           |          |            |            | 25      | 14        | 17.18               | 17.15      | 17.41    | 0        |   |
|           |          |            | 16QAM      | 25      | 27        | 17.14               | 17.14      | 17.53    | 0        |   |
|           |          |            |            | 50      | 0         | 17.19               | 17.15      | 17.40    | 0        |   |
|           |          |            |            | 1       | 1         | 17.18               | 17.03      | 16.68    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 17.31      | 17.07    | 17.09    | 0 |

NR Band n25 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|----------|
|           |          |            |            |         |           | 371500              | 376500     | 381500     |          |
|           |          |            |            |         |           | 1857.5 MHz          | 1882.5 MHz | 1907.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.32               | 16.99      | 17.14      | 0        |
|           |          |            |            | 1       | 40        | 17.22               | 17.18      | 17.44      | 0        |
|           |          |            |            | 1       | 77        | 17.06               | 17.09      | 17.58      | 0        |
|           |          |            |            | 36      | 0         | 17.34               | 17.18      | 17.41      | 0        |
|           |          |            |            | 36      | 22        | 17.28               | 17.23      | 17.47      | 0        |
|           |          |            |            | 36      | 43        | 17.21               | 17.21      | 17.59      | 0        |
|           |          |            |            | 75      | 0         | 17.31               | 17.24      | 17.51      | 0        |
|           |          |            | QPSK       | 1       | 1         | 17.34               | 16.96      | 17.15      | 0        |
|           |          |            |            | 1       | 40        | 17.17               | 17.16      | 17.41      | 0        |
|           |          |            |            | 1       | 77        | 17.04               | 17.07      | 17.58      | 0        |
|           |          |            |            | 36      | 0         | 17.37               | 17.19      | 17.44      | 0        |
|           |          |            |            | 36      | 22        | 17.28               | 17.26      | 17.48      | 0        |
|           |          |            |            | 36      | 43        | 17.25               | 17.28      | 17.60      | 0        |
|           |          |            |            | 75      | 0         | 17.34               | 17.26      | 17.52      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 17.34               | 16.93      | 17.09      | 0        |
| CP        | QPSK     | 1          | 1          | 17.30   | 17.04     | 17.14               | 0          |            |          |

NR Band n25 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |          | MPR [dB] |       |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|----------|----------|-------|
|           |          |            |            |         |           | 372000              | 376500     | 381000   |          |       |
|           |          |            |            |         |           | 1860 MHz            | 1882.5 MHz | 1905 MHz |          |       |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 17.22               | 16.99      | 17.15    | 0        |       |
|           |          |            |            | 1       | 53        | 17.18               | 17.28      | 17.60    | 0        |       |
|           |          |            |            | 1       | 104       | 16.97               | 17.09      | 17.59    | 0        |       |
|           |          |            |            | 50      | 0         | 17.26               | 17.22      | 17.40    | 0        |       |
|           |          |            |            | 50      | 28        | 17.22               | 17.31      | 17.55    | 0        |       |
|           |          |            |            | 50      | 56        | 17.13               | 17.28      | 17.54    | 0        |       |
|           |          |            |            | 100     | 0         | 17.23               | 17.28      | 17.51    | 0        |       |
|           |          |            | QPSK       | 1       | 1         | 17.25               | 16.96      | 17.19    | 0        |       |
|           |          |            |            | 1       | 53        | 17.69               | 17.31      | 17.69    | 0        |       |
|           |          |            |            | 1       | 104       | 16.96               | 17.07      | 17.57    | 0        |       |
|           |          |            |            | 50      | 0         | 17.27               | 17.21      | 17.44    | 0        |       |
|           |          |            |            | 50      | 28        | 17.60               | 17.30      | 17.60    | 0        |       |
|           |          |            |            | 50      | 56        | 17.16               | 17.28      | 17.57    | 0        |       |
|           |          |            |            | 100     | 0         | 17.24               | 17.28      | 17.54    | 0        |       |
|           |          |            |            | 16QAM   | 1         | 1                   | 16.82      | 16.99    | 17.18    | 0     |
|           |          |            |            | CP      | QPSK      | 1                   | 1          | 17.35    | 16.94    | 17.10 |



[ NR Band n41 Conducted Power \_ Grip Sensor on]

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 500202              | 509400   | 518598      | 527802      | 53700    |          |
|           |          |       |            |         |           | 2501.01 MHz         | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.65               | 20.96    | 21.66       | 21.07       | 20.63    | 0        |
|           |          |       |            | 1       | 12        | 20.77               | 21.16    | 21.90       | 21.22       | 20.92    | 0        |
|           |          |       |            | 1       | 22        | 20.59               | 20.99    | 21.56       | 20.90       | 20.77    | 0        |
|           |          |       |            | 12      | 0         | 20.57               | 20.96    | 21.63       | 21.04       | 20.64    | 0        |
|           |          |       |            | 12      | 6         | 20.61               | 20.98    | 21.66       | 21.02       | 20.72    | 0        |
|           |          |       |            | 12      | 12        | 20.62               | 20.97    | 21.62       | 20.98       | 20.79    | 0        |
|           |          |       | QPSK       | 24      | 0         | 20.62               | 21.02    | 21.67       | 21.02       | 20.74    | 0        |
|           |          |       |            | 1       | 1         | 20.39               | 20.70    | 21.41       | 20.80       | 20.41    | 0        |
|           |          |       |            | 1       | 12        | 20.43               | 20.76    | 21.45       | 20.79       | 20.53    | 0        |
|           |          |       |            | 1       | 22        | 20.30               | 20.72    | 21.33       | 20.67       | 20.50    | 0        |
|           |          |       |            | 12      | 0         | 20.59               | 20.94    | 21.64       | 21.03       | 20.66    | 0        |
|           |          |       |            | 12      | 6         | 20.60               | 20.97    | 21.59       | 21.01       | 20.73    | 0        |
|           |          |       | 16QAM      | 12      | 12        | 20.60               | 20.96    | 21.56       | 20.92       | 20.77    | 0        |
|           |          |       |            | 24      | 0         | 20.60               | 20.97    | 21.62       | 20.98       | 20.71    | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 20.96               | 21.07    | 21.73       | 21.19       | 20.89    | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 20.94               | 21.30    | 21.92       | 21.33       | 20.90    | 0        |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 500700              | 509664      | 518598      | 527562      | 536496      |          |
|           |          |       |            |         |           | 2503.5 MHz          | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.69               | 20.97       | 21.66       | 21.17       | 20.53       | 0        |
|           |          |       |            | 1       | 18        | 20.72               | 21.03       | 21.73       | 21.11       | 20.70       | 0        |
|           |          |       |            | 1       | 36        | 20.63               | 21.08       | 21.53       | 20.95       | 20.75       | 0        |
|           |          |       |            | 18      | 0         | 20.64               | 21.03       | 21.69       | 21.13       | 20.58       | 0        |
|           |          |       |            | 18      | 9         | 20.66               | 21.08       | 21.74       | 21.14       | 20.69       | 0        |
|           |          |       |            | 18      | 18        | 20.70               | 21.12       | 21.66       | 21.05       | 20.77       | 0        |
|           |          |       | QPSK       | 36      | 0         | 20.70               | 21.11       | 21.70       | 21.10       | 20.68       | 0        |
|           |          |       |            | 1       | 1         | 20.38               | 20.69       | 21.42       | 20.89       | 20.26       | 0        |
|           |          |       |            | 1       | 18        | 20.44               | 20.81       | 21.51       | 20.90       | 20.44       | 0        |
|           |          |       |            | 1       | 36        | 20.34               | 20.85       | 21.30       | 20.70       | 20.51       | 0        |
|           |          |       |            | 18      | 0         | 20.62               | 21.01       | 21.71       | 21.08       | 20.62       | 0        |
|           |          |       |            | 18      | 9         | 20.66               | 21.07       | 21.70       | 21.14       | 20.68       | 0        |
|           |          |       | 16QAM      | 18      | 18        | 20.67               | 21.05       | 21.66       | 21.06       | 20.75       | 0        |
|           |          |       |            | 36      | 0         | 20.67               | 21.09       | 21.72       | 21.10       | 20.66       | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 20.90               | 21.13       | 21.92       | 21.38       | 20.67       | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 21.03               | 21.37       | 21.97       | 21.52       | 20.80       | 0        |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204              | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz         | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.75               | 21.00       | 21.62       | 21.15       | 20.53       | 0        |
|           |          |       |            | 1       | 26        | 20.81               | 21.11       | 21.76       | 21.15       | 20.72       | 0        |
|           |          |       |            | 1       | 49        | 20.74               | 21.15       | 21.46       | 20.92       | 20.71       | 0        |
|           |          |       |            | 25      | 0         | 20.77               | 21.11       | 21.72       | 21.17       | 20.59       | 0        |
|           |          |       |            | 25      | 13        | 20.85               | 21.20       | 21.78       | 21.22       | 20.71       | 0        |
|           |          |       |            | 25      | 26        | 20.89               | 21.22       | 21.64       | 21.05       | 20.81       | 0        |
|           |          |       | QPSK       | 50      | 0         | 20.89               | 21.21       | 21.76       | 21.18       | 20.75       | 0        |
|           |          |       |            | 1       | 1         | 20.48               | 20.74       | 21.32       | 20.90       | 20.30       | 0        |
|           |          |       |            | 1       | 26        | 20.53               | 20.84       | 21.53       | 20.92       | 20.45       | 0        |
|           |          |       |            | 1       | 49        | 20.47               | 20.90       | 21.23       | 20.66       | 20.51       | 0        |
|           |          |       |            | 25      | 0         | 20.74               | 21.10       | 21.69       | 21.11       | 20.57       | 0        |
|           |          |       |            | 25      | 13        | 20.80               | 21.13       | 21.74       | 21.16       | 20.67       | 0        |
|           |          |       | 16QAM      | 25      | 26        | 20.81               | 21.15       | 21.60       | 21.02       | 20.77       | 0        |
|           |          |       |            | 50      | 0         | 20.84               | 21.16       | 21.70       | 21.11       | 20.68       | 0        |
| CP        | QPSK     | 1     | 1          | 21.11   | 21.41     | 21.94               | 21.51       | 20.88       | 0           |             |          |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200              | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz            | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.54               | 20.94       | 21.44       | 21.29       | 20.49    | 0        |
|           |          |       |            | 1       | 39        | 20.99               | 21.72       | 22.13       | 21.60       | 20.99    | 0        |
|           |          |       |            | 1       | 76        | 20.63               | 21.52       | 21.25       | 20.98       | 20.68    | 0        |
|           |          |       |            | 36      | 0         | 20.69               | 21.33       | 21.76       | 21.45       | 20.74    | 0        |
|           |          |       |            | 36      | 21        | 20.85               | 21.53       | 21.82       | 21.44       | 20.75    | 0        |
|           |          |       |            | 36      | 42        | 20.86               | 21.62       | 21.64       | 21.31       | 20.81    | 0        |
|           |          |       |            | 75      | 0         | 20.81               | 21.50       | 21.78       | 21.38       | 20.76    | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.25               | 20.68       | 21.18       | 21.04       | 20.28    | 0        |
|           |          |       |            | 1       | 39        | 20.43               | 21.26       | 21.60       | 21.10       | 20.46    | 0        |
|           |          |       |            | 1       | 76        | 20.41               | 21.26       | 21.02       | 20.78       | 20.47    | 0        |
|           |          |       |            | 36      | 0         | 20.68               | 21.31       | 21.73       | 21.44       | 20.69    | 0        |
|           |          |       |            | 36      | 21        | 20.82               | 21.53       | 21.81       | 21.40       | 20.76    | 0        |
|           |          |       |            | 36      | 42        | 20.80               | 21.56       | 21.56       | 21.27       | 20.83    | 0        |
|           |          |       |            | 75      | 0         | 20.71               | 21.44       | 21.71       | 21.34       | 20.76    | 0        |
|           |          |       | 16QAM      | 1       | 1         | 20.76               | 21.15       | 21.68       | 21.52       | 20.73    | 0        |
|           |          |       | CP         | QPSK    | 1         | 1                   | 20.93       | 21.33       | 21.93       | 21.69    | 20.89    |

NR Band n41 \_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |                |       |                |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------------|-------|----------------|-------------|----------|
|           |          |       |            |         |           | 503202              | 513468         |       | 523734         | 534000      |          |
|           |          |       |            |         |           | 2516.01<br>MHz      | 2567.34<br>MHz |       | 2618.67<br>MHz | 2670<br>MHz |          |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.33               | 20.62          |       | 21.22          | 20.44       | 0        |
|           |          |       |            | 1       | 53        | 21.02               | 21.82          |       | 21.58          | 20.99       | 0        |
|           |          |       |            | 1       | 104       | 20.64               | 21.32          |       | 20.68          | 20.45       | 0        |
|           |          |       |            | 50      | 0         | 20.60               | 21.27          |       | 21.43          | 20.74       | 0        |
|           |          |       |            | 50      | 28        | 20.89               | 21.56          |       | 21.43          | 20.71       | 0        |
|           |          |       |            | 50      | 56        | 20.85               | 21.57          |       | 21.23          | 20.67       | 0        |
|           |          |       |            | 100     | 0         | 20.79               | 21.43          |       | 21.39          | 20.76       | 0        |
|           |          |       | QPSK       | 1       | 1         | 19.99               | 20.39          |       | 21.02          | 20.24       | 0        |
|           |          |       |            | 1       | 53        | 20.41               | 21.35          |       | 21.00          | 20.43       | 0        |
|           |          |       |            | 1       | 104       | 20.37               | 21.12          |       | 20.48          | 20.24       | 0        |
|           |          |       |            | 50      | 0         | 20.57               | 21.17          |       | 21.38          | 20.72       | 0        |
|           |          |       |            | 50      | 28        | 20.85               | 21.51          |       | 21.38          | 20.67       | 0        |
|           |          |       |            | 50      | 56        | 20.78               | 21.53          |       | 21.17          | 20.63       | 0        |
|           |          |       | 100        | 0       | 20.74     | 21.43               |                | 21.36 | 20.71          | 0           |          |
|           |          | 16QAM | 1          | 1       | 20.73     | 21.01               |                | 21.38 | 20.61          | 0           |          |
|           |          | CP    | QPSK       | 1       | 1         | 20.74               | 21.05          |       | 21.67          | 20.94       | 0        |

NR Band n41 \_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |                |       |                | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------|----------------|-------|----------------|----------|
|           |          |       |            |         |           | 504204              |       | 518598         |       | 532998         |          |
|           |          |       |            |         |           | 2521.02<br>MHz      |       | 2592.99<br>MHz |       | 2664.99<br>MHz |          |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.56               |       | 21.29          |       | 20.78          | 0        |
|           |          |       |            | 1       | 67        | 20.85               |       | 21.87          |       | 20.68          | 0        |
|           |          |       |            | 1       | 131       | 20.89               |       | 21.18          |       | 20.68          | 0        |
|           |          |       |            | 64      | 0         | 20.68               |       | 21.76          |       | 20.91          | 0        |
|           |          |       |            | 64      | 35        | 21.00               |       | 21.84          |       | 20.75          | 0        |
|           |          |       |            | 64      | 69        | 21.03               |       | 21.58          |       | 20.71          | 0        |
|           |          |       |            | 128     | 0         | 20.90               |       | 21.74          |       | 20.88          | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.30               |       | 21.03          |       | 20.62          | 0        |
|           |          |       |            | 1       | 67        | 20.62               |       | 21.59          |       | 20.40          | 0        |
|           |          |       |            | 1       | 131       | 20.56               |       | 20.95          |       | 20.43          | 0        |
|           |          |       |            | 64      | 0         | 20.68               |       | 21.72          |       | 20.88          | 0        |
|           |          |       |            | 64      | 35        | 20.97               |       | 21.83          |       | 20.75          | 0        |
|           |          |       |            | 64      | 69        | 21.00               |       | 21.57          |       | 20.69          | 0        |
|           |          |       | 128        | 0       | 20.83     |                     | 21.66 |                | 20.84 | 0              |          |
|           |          | 16QAM | 1          | 1       | 20.63     |                     | 21.57 |                | 21.07 | 0              |          |
|           |          | CP    | QPSK       | 1       | 1         | 21.01               |       | 21.59          |       | 21.31          | 0        |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |             |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|-------------|
|           |          |       |            |         |           | 505200              |  | 518598      |   |          | 531996      |
|           |          |       |            |         |           | 2526 MHz            |  | 2592.99 MHz |   |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.44               |  | 21.02       |   | 20.90    | 0           |
|           |          |       |            | 1       | 81        | 21.17               |  | 22.09       |   | 20.97    | 0           |
|           |          |       |            | 1       | 160       | 20.89               |  | 20.93       |   | 20.57    | 0           |
|           |          |       |            | 81      | 0         | 20.64               |  | 21.67       |   | 21.05    | 0           |
|           |          |       |            | 81      | 41        | 21.04               |  | 21.79       |   | 20.87    | 0           |
|           |          |       |            | 81      | 81        | 21.00               |  | 21.48       |   | 20.62    | 0           |
|           |          |       |            | 162     | 0         | 20.86               |  | 21.62       |   | 20.92    | 0           |
|           |          |       | QPSK       | 1       | 1         | 20.15               |  | 20.99       |   | 20.95    | 0           |
|           |          |       |            | 1       | 81        | 20.54               |  | 21.83       |   | 20.83    | 0           |
|           |          |       |            | 1       | 160       | 20.70               |  | 20.68       |   | 20.30    | 0           |
|           |          |       |            | 81      | 0         | 20.60               |  | 21.60       |   | 21.02    | 0           |
|           |          |       |            | 81      | 41        | 20.99               |  | 21.73       |   | 20.82    | 0           |
|           |          |       |            | 81      | 81        | 20.97               |  | 21.45       |   | 20.62    | 0           |
|           |          |       |            | 162     | 0         | 20.85               |  | 21.59       |   | 20.85    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 20.68               |  | 21.35       |   | 20.80    | 0           |
| CP        | QPSK     | 1     | 1          | 20.12   |           | 21.55               |  | 21.10       | 0 |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 507204              |  |       |   |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz         |  |       |   |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.16               |  |       |   | 20.97    | 0           |
|           |          |       |            | 1       | 109       | 21.05               |  |       |   | 20.93    | 0           |
|           |          |       |            | 1       | 215       | 21.10               |  |       |   | 20.29    | 0           |
|           |          |       |            | 108     | 0         | 20.73               |  |       |   | 21.19    | 0           |
|           |          |       |            | 108     | 55        | 21.07               |  |       |   | 21.00    | 0           |
|           |          |       |            | 108     | 109       | 21.25               |  |       |   | 20.63    | 0           |
|           |          |       |            | 216     | 0         | 20.97               |  |       |   | 20.93    | 0           |
|           |          |       | QPSK       | 1       | 1         | 20.11               |  |       |   | 20.73    | 0           |
|           |          |       |            | 1       | 109       | 20.92               |  |       |   | 20.74    | 0           |
|           |          |       |            | 1       | 215       | 21.18               |  |       |   | 20.13    | 0           |
|           |          |       |            | 108     | 0         | 20.66               |  |       |   | 21.17    | 0           |
|           |          |       |            | 108     | 55        | 21.03               |  |       |   | 20.98    | 0           |
|           |          |       |            | 108     | 109       | 21.22               |  |       |   | 20.61    | 0           |
|           |          |       |            | 216     | 0         | 20.95               |  |       |   | 20.89    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 20.39               |  |       |   | 21.14    | 0           |
| CP        | QPSK     | 1     | 1          | 20.59   |           |                     |  | 21.26 | 0 |          |             |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 508200              |  |       |   |          | 528996      |
|           |          |       |            |         |           | 2541 MHz            |  |       |   |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.06               |  |       |   | 20.96    | 0           |
|           |          |       |            | 1       | 123       | 21.07               |  |       |   | 21.03    | 0           |
|           |          |       |            | 1       | 243       | 21.15               |  |       |   | 20.20    | 0           |
|           |          |       |            | 120     | 0         | 20.72               |  |       |   | 21.19    | 0           |
|           |          |       |            | 120     | 63        | 21.08               |  |       |   | 21.02    | 0           |
|           |          |       |            | 120     | 125       | 21.24               |  |       |   | 20.55    | 0           |
|           |          |       |            | 243     | 0         | 21.00               |  |       |   | 20.88    | 0           |
|           |          |       | QPSK       | 1       | 1         | 19.82               |  |       |   | 20.77    | 0           |
|           |          |       |            | 1       | 123       | 20.85               |  |       |   | 20.81    | 0           |
|           |          |       |            | 1       | 243       | 20.95               |  |       |   | 20.00    | 0           |
|           |          |       |            | 120     | 0         | 20.63               |  |       |   | 21.19    | 0           |
|           |          |       |            | 120     | 63        | 21.04               |  |       |   | 20.98    | 0           |
|           |          |       |            | 120     | 125       | 21.28               |  |       |   | 20.54    | 0           |
|           |          |       |            | 243     | 0         | 20.96               |  |       |   | 20.87    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 20.24               |  |       |   | 21.17    | 0           |
| CP        | QPSK     | 1     | 1          | 20.45   |           |                     |  | 21.19 | 0 |          |             |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power [dBm] |  |             |   | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|---|
|           |          |       |            |         |           |                     |  | 518598      |   |          |   |
|           |          |       |            |         |           |                     |  | 2592.99 MHz |   |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                     |  | 20.18       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 21.86       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 20.24       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 21.31       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 21.62       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 21.29       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 21.28       |   |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                     |  | 20.06       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 21.67       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 20.06       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 21.31       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 21.62       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 21.25       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 21.24       |   |          | 0 |
|           |          |       | 16QAM      | 1       | 1         |                     |  | 20.52       |   |          | 0 |
| CP        | QPSK     | 1     | 1          |         |           | 20.64               |  |             | 0 |          |   |

[ NR Band n66 Conducted Power\_ Grip Sensor on]

NR Band n66 \_5 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 342500              | 346820     | 351160     | 355500     |          |
|           |          |            |            |         |           | 1712.5 MHz          | 1734.1 MHz | 1755.8 MHz | 1777.5 MHz |          |
| 5 MHz     | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 19.73               | 20.34      | 20.62      | 19.87      | 0        |
|           |          |            |            | 1       | 13        | 19.82               | 20.41      | 20.52      | 19.88      | 0        |
|           |          |            |            | 1       | 23        | 19.84               | 20.47      | 20.44      | 19.87      | 0        |
|           |          |            |            | 12      | 0         | 19.77               | 20.43      | 20.68      | 19.95      | 0        |
|           |          |            |            | 12      | 7         | 19.86               | 20.46      | 20.60      | 19.92      | 0        |
|           |          |            |            | 12      | 13        | 19.92               | 20.46      | 20.55      | 19.92      | 0        |
|           |          |            | QPSK       | 25      | 0         | 19.85               | 20.48      | 20.61      | 19.95      | 0        |
|           |          |            |            | 1       | 1         | 19.70               | 20.29      | 20.59      | 19.80      | 0        |
|           |          |            |            | 1       | 13        | 19.75               | 20.36      | 20.47      | 19.81      | 0        |
|           |          |            |            | 1       | 23        | 19.79               | 20.43      | 20.37      | 19.85      | 0        |
|           |          |            |            | 12      | 0         | 19.76               | 20.41      | 20.67      | 19.93      | 0        |
|           |          |            |            | 12      | 7         | 19.88               | 20.46      | 20.58      | 19.91      | 0        |
|           |          |            |            | 12      | 13        | 19.89               | 20.44      | 20.54      | 19.93      | 0        |
|           |          |            |            | 25      | 0         | 19.85               | 20.46      | 20.59      | 19.93      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 19.77               | 20.36      | 20.65      | 19.90      | 0        |
| CP        | QPSK     | 1          | 1          | 19.84   | 20.52     | 20.76               | 20.01      | 0          |            |          |

NR Band n66 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |          |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|----------|----------|----------|---|
|           |          |            |            |         |           | 343000              | 347000   | 351000   | 355000   |          |   |
|           |          |            |            |         |           | 1715 MHz            | 1735 MHz | 1755 MHz | 1775 MHz |          |   |
| 10 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 20.14               | 20.54    | 20.85    | 20.23    | 0        |   |
|           |          |            |            | 1       | 26        | 20.28               | 20.66    | 20.70    | 20.21    | 0        |   |
|           |          |            |            | 1       | 50        | 20.41               | 20.72    | 20.45    | 20.18    | 0        |   |
|           |          |            |            | 25      | 0         | 20.17               | 20.64    | 20.86    | 20.33    | 0        |   |
|           |          |            |            | 25      | 14        | 20.39               | 20.75    | 20.76    | 20.31    | 0        |   |
|           |          |            |            | 25      | 27        | 20.48               | 20.80    | 20.69    | 20.32    | 0        |   |
|           |          |            | QPSK       | 50      | 0         | 20.32               | 20.69    | 20.77    | 20.30    | 0        |   |
|           |          |            |            | 1       | 1         | 20.10               | 20.49    | 20.78    | 20.19    | 0        |   |
|           |          |            |            | 1       | 26        | 20.38               | 20.64    | 20.73    | 20.26    | 0        |   |
|           |          |            |            | 1       | 50        | 20.38               | 20.68    | 20.39    | 20.15    | 0        |   |
|           |          |            |            | 25      | 0         | 20.14               | 20.64    | 20.87    | 20.32    | 0        |   |
|           |          |            |            | 25      | 14        | 20.35               | 20.74    | 20.74    | 20.29    | 0        |   |
|           |          |            |            | 25      | 27        | 20.46               | 20.77    | 20.67    | 20.32    | 0        |   |
|           |          |            |            | 50      | 0         | 20.31               | 20.69    | 20.77    | 20.27    | 0        |   |
|           |          |            |            | 16QAM   | 1         | 1                   | 20.22    | 20.62    | 20.40    | 20.16    | 0 |
|           |          |            | CP         | QPSK    | 1         | 1                   | 20.29    | 20.67    | 20.96    | 20.37    | 0 |

NR Band n66 \_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |            |            |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|------------|------------|------------|----------|
|           |          |            |            |         |           | 343500              | 347160     | 350820     | 354500     |          |
|           |          |            |            |         |           | 1717.5 MHz          | 1735.8 MHz | 1754.1 MHz | 1772.5 MHz |          |
| 15 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 19.75               | 20.31      | 20.59      | 19.83      | 0        |
|           |          |            |            | 1       | 40        | 20.05               | 20.61      | 20.56      | 19.82      | 0        |
|           |          |            |            | 1       | 77        | 20.16               | 20.66      | 20.12      | 19.67      | 0        |
|           |          |            |            | 36      | 0         | 19.85               | 20.49      | 20.69      | 19.92      | 0        |
|           |          |            |            | 36      | 22        | 20.05               | 20.61      | 20.57      | 19.84      | 0        |
|           |          |            |            | 36      | 43        | 20.20               | 20.67      | 20.42      | 19.85      | 0        |
|           |          |            |            | 75      | 0         | 20.01               | 20.60      | 20.59      | 19.89      | 0        |
|           |          |            | QPSK       | 1       | 1         | 19.71               | 20.28      | 20.53      | 19.82      | 0        |
|           |          |            |            | 1       | 40        | 20.02               | 20.57      | 20.53      | 19.78      | 0        |
|           |          |            |            | 1       | 77        | 20.13               | 20.60      | 20.10      | 19.65      | 0        |
|           |          |            |            | 36      | 0         | 19.87               | 20.48      | 20.68      | 19.92      | 0        |
|           |          |            |            | 36      | 22        | 20.06               | 20.60      | 20.59      | 19.84      | 0        |
|           |          |            |            | 36      | 43        | 20.22               | 20.68      | 20.44      | 19.88      | 0        |
|           |          |            |            | 75      | 0         | 20.02               | 20.62      | 20.59      | 19.90      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 19.80               | 20.36      | 20.63      | 19.40      | 0        |
| CP        | QPSK     | 1          | 1          | 19.73   | 20.31     | 20.59               | 19.87      | 0          |            |          |

NR Band n66 \_ 20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |       |          | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|----------|----------|---|
|           |          |            |            |         |           | 344000              | 349000   |       | 354000   |          |   |
|           |          |            |            |         |           | 1720 MHz            | 1745 MHz |       | 1770 MHz |          |   |
| 20 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 19.64               | 20.44    |       | 20.11    | 0        |   |
|           |          |            |            | 1       | 53        | 20.08               | 20.82    |       | 19.91    | 0        |   |
|           |          |            |            | 1       | 104       | 20.17               | 20.52    |       | 19.72    | 0        |   |
|           |          |            |            | 50      | 0         | 19.78               | 20.65    |       | 20.12    | 0        |   |
|           |          |            |            | 50      | 28        | 20.14               | 20.81    |       | 19.99    | 0        |   |
|           |          |            |            | 50      | 56        | 20.19               | 20.79    |       | 19.91    | 0        |   |
|           |          |            |            | 100     | 0         | 19.97               | 20.75    |       | 20.03    | 0        |   |
|           |          |            | QPSK       | 1       | 1         | 19.58               | 20.39    |       | 20.05    | 0        |   |
|           |          |            |            | 1       | 53        | 20.07               | 20.86    |       | 19.97    | 0        |   |
|           |          |            |            | 1       | 104       | 20.13               | 20.47    |       | 19.66    | 0        |   |
|           |          |            |            | 50      | 0         | 19.75               | 20.63    |       | 20.13    | 0        |   |
|           |          |            |            | 50      | 28        | 20.15               | 20.81    |       | 19.98    | 0        |   |
|           |          |            |            | 50      | 56        | 20.22               | 20.79    |       | 19.92    | 0        |   |
|           |          |            |            | 100     | 0         | 19.98               | 20.76    |       | 20.02    | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 19.70               | 20.43    |       | 20.15    | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                   | 19.78    | 20.50 |          | 20.10    | 0 |

NR Band n66 \_ 25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |       |            | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|-------|------------|----------|
|           |          |            |            |         |           | 344500              | 349000   |       | 353500     |          |
|           |          |            |            |         |           | 1722.5 MHz          | 1745 MHz |       | 1767.5 MHz |          |
| 25 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 19.57               | 20.34    |       | 20.37      | 0        |
|           |          |            |            | 1       | 66        | 20.24               | 20.86    |       | 20.12      | 0        |
|           |          |            |            | 1       | 131       | 20.24               | 20.33    |       | 19.72      | 0        |
|           |          |            |            | 64      | 0         | 19.86               | 20.68    |       | 20.27      | 0        |
|           |          |            |            | 64      | 35        | 20.18               | 20.84    |       | 20.15      | 0        |
|           |          |            |            | 64      | 69        | 20.30               | 20.75    |       | 19.92      | 0        |
|           |          |            |            | 128     | 0         | 20.06               | 20.74    |       | 20.13      | 0        |
|           |          |            | QPSK       | 1       | 1         | 19.59               | 20.30    |       | 20.32      | 0        |
|           |          |            |            | 1       | 66        | 20.16               | 20.82    |       | 20.08      | 0        |
|           |          |            |            | 1       | 131       | 20.23               | 20.29    |       | 19.67      | 0        |
|           |          |            |            | 64      | 0         | 19.89               | 20.67    |       | 20.27      | 0        |
|           |          |            |            | 64      | 35        | 20.20               | 20.82    |       | 20.15      | 0        |
|           |          |            |            | 64      | 69        | 20.31               | 20.74    |       | 19.94      | 0        |
|           |          |            |            | 128     | 0         | 20.07               | 20.73    |       | 20.14      | 0        |
|           |          |            | 16QAM      | 1       | 1         | 19.60               | 20.36    |       | 20.39      | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 19.81    | 20.49 |            | 20.49    |

NR Band n66 \_ 30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |       |  |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|-------|--|----------|----------|
|           |          |            |            |         |           | 345000              |       |  | 353000   |          |
|           |          |            |            |         |           | 1725 MHz            |       |  | 1765 MHz |          |
| 30 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 19.51               |       |  | 20.48    | 0        |
|           |          |            |            | 1       | 80        | 20.27               |       |  | 20.17    | 0        |
|           |          |            |            | 1       | 158       | 20.36               |       |  | 19.63    | 0        |
|           |          |            |            | 80      | 0         | 19.94               |       |  | 20.39    | 0        |
|           |          |            |            | 80      | 40        | 20.34               |       |  | 20.23    | 0        |
|           |          |            |            | 80      | 80        | 20.48               |       |  | 19.95    | 0        |
|           |          |            |            | 160     | 0         | 20.22               |       |  | 20.19    | 0        |
|           |          |            | QPSK       | 1       | 1         | 19.48               |       |  | 20.42    | 0        |
|           |          |            |            | 1       | 80        | 20.35               |       |  | 20.15    | 0        |
|           |          |            |            | 1       | 158       | 20.32               |       |  | 19.59    | 0        |
|           |          |            |            | 80      | 0         | 19.94               |       |  | 20.39    | 0        |
|           |          |            |            | 80      | 40        | 20.34               |       |  | 20.22    | 0        |
|           |          |            |            | 80      | 80        | 20.46               |       |  | 19.93    | 0        |
|           |          |            |            | 160     | 0         | 20.21               |       |  | 20.18    | 0        |
|           |          |            | 16QAM      | 1       | 1         | 19.62               |       |  | 20.42    | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   | 19.66 |  |          | 20.58    |



NR Band n66 \_ 40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power [dBm] |          |  | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------|----------|--|----------|
|           |          |            |            |         |           |                     | 349000   |  |          |
| 40 MHz    | 15       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         |                     | 1745 MHz |  | 0        |
|           |          |            |            | 1       | 108       |                     |          |  | 0        |
|           |          |            |            | 1       | 214       |                     |          |  | 0        |
|           |          |            |            | 108     | 0         |                     |          |  | 0        |
|           |          |            |            | 108     | 54        |                     |          |  | 0        |
|           |          |            |            | 108     | 108       |                     |          |  | 0        |
|           |          |            |            | 216     | 0         |                     |          |  | 0        |
|           |          |            | QPSK       | 1       | 1         |                     |          |  | 0        |
|           |          |            |            | 1       | 108       |                     |          |  | 0        |
|           |          |            |            | 1       | 214       |                     |          |  | 0        |
|           |          |            |            | 108     | 0         |                     |          |  | 0        |
|           |          |            |            | 108     | 54        |                     |          |  | 0        |
|           |          |            |            | 108     | 108       |                     |          |  | 0        |
|           |          |            |            | 216     | 0         |                     |          |  | 0        |
|           |          |            | 16QAM      | 1       | 1         |                     |          |  | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                   |          |  | 0        |

**11.5.4 NR Band Reduced Conducted Power(Receiver ON)**

**[ NR Band n41 Conducted Power ] \_Receiver ON**

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power _Receiver ON [dBm] |          |             |             |          | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|----------------------------------|----------|-------------|-------------|----------|----------|---|
|           |          |       |            |         |           | 500202                           | 509400   | 518598      | 527802      | 53700    |          |   |
|           |          |       |            |         |           | 2501.01 MHz                      | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |   |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.68                            | 21.00    | 21.71       | 21.06       | 20.69    | 0        |   |
|           |          |       |            | 1       | 12        | 20.82                            | 21.30    | 21.96       | 21.23       | 21.01    | 0        |   |
|           |          |       |            | 1       | 22        | 20.64                            | 21.02    | 21.60       | 20.93       | 20.83    | 0        |   |
|           |          |       |            | 12      | 0         | 20.63                            | 20.99    | 21.70       | 21.08       | 20.75    | 0        |   |
|           |          |       |            | 12      | 6         | 20.64                            | 20.99    | 21.65       | 21.05       | 20.77    | 0        |   |
|           |          |       |            | 12      | 12        | 20.66                            | 21.00    | 21.63       | 21.01       | 20.84    | 0        |   |
|           |          |       | QPSK       | 24      | 0         | 20.65                            | 21.05    | 21.67       | 21.04       | 20.80    | 0        |   |
|           |          |       |            | 1       | 1         | 20.39                            | 20.74    | 21.46       | 20.84       | 20.44    | 0        |   |
|           |          |       |            | 1       | 12        | 20.41                            | 20.83    | 21.49       | 20.86       | 20.60    | 0        |   |
|           |          |       |            | 1       | 22        | 20.34                            | 20.76    | 21.37       | 20.71       | 20.56    | 0        |   |
|           |          |       |            | 12      | 0         | 20.58                            | 20.97    | 21.65       | 21.04       | 20.71    | 0        |   |
|           |          |       |            | 12      | 6         | 20.62                            | 21.00    | 21.59       | 21.01       | 20.76    | 0        |   |
|           |          |       | 16QAM      | 12      | 12        | 20.62                            | 20.98    | 21.58       | 20.95       | 20.83    | 0        |   |
|           |          |       |            | 24      | 0         | 20.63                            | 21.00    | 21.61       | 21.00       | 20.78    | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                                | 21.08    | 21.38       | 22.04       | 21.46    | 21.08    | 0 |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power _Receiver ON [dBm] |             |             |             |             | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|----------------------------------|-------------|-------------|-------------|-------------|----------|---|
|           |          |       |            |         |           | 500700                           | 509664      | 518598      | 527562      | 536496      |          |   |
|           |          |       |            |         |           | 2503.5 MHz                       | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |   |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.77                            | 21.02       | 21.75       | 21.19       | 20.56       | 0        |   |
|           |          |       |            | 1       | 18        | 20.76                            | 21.10       | 21.81       | 21.14       | 20.74       | 0        |   |
|           |          |       |            | 1       | 36        | 20.73                            | 21.16       | 21.57       | 20.97       | 20.77       | 0        |   |
|           |          |       |            | 18      | 0         | 20.73                            | 21.13       | 21.76       | 21.15       | 20.60       | 0        |   |
|           |          |       |            | 18      | 9         | 20.74                            | 21.15       | 21.78       | 21.19       | 20.70       | 0        |   |
|           |          |       |            | 18      | 18        | 20.80                            | 21.16       | 21.71       | 21.11       | 20.80       | 0        |   |
|           |          |       | QPSK       | 36      | 0         | 20.80                            | 21.18       | 21.74       | 21.13       | 20.72       | 0        |   |
|           |          |       |            | 1       | 1         | 20.46                            | 20.76       | 21.47       | 20.93       | 20.30       | 0        |   |
|           |          |       |            | 1       | 18        | 20.50                            | 20.88       | 21.57       | 20.95       | 20.50       | 0        |   |
|           |          |       |            | 1       | 36        | 20.41                            | 20.90       | 21.33       | 20.75       | 20.53       | 0        |   |
|           |          |       |            | 18      | 0         | 20.71                            | 21.09       | 21.73       | 21.11       | 20.61       | 0        |   |
|           |          |       |            | 18      | 9         | 20.76                            | 21.14       | 21.76       | 21.18       | 20.70       | 0        |   |
|           |          |       | 16QAM      | 18      | 18        | 20.76                            | 21.14       | 21.69       | 21.09       | 20.77       | 0        |   |
|           |          |       |            | 36      | 0         | 20.75                            | 21.14       | 21.75       | 21.15       | 20.72       | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                                | 20.93       | 21.21       | 21.93       | 21.39       | 20.76    | 0 |
|           |          |       | CP         | QPSK    | 1         | 1                                | 21.18       | 21.44       | 22.10       | 21.57       | 20.94    | 0 |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204                          | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz                     | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.93                           | 21.13       | 21.71       | 21.26       | 20.70       | 0        |
|           |          |       |            | 1       | 26        | 20.98                           | 21.28       | 21.88       | 21.28       | 20.83       | 0        |
|           |          |       |            | 1       | 49        | 20.91                           | 21.30       | 21.59       | 21.02       | 20.83       | 0        |
|           |          |       |            | 25      | 0         | 20.96                           | 21.27       | 21.87       | 21.30       | 20.74       | 0        |
|           |          |       |            | 25      | 13        | 21.08                           | 21.36       | 21.89       | 21.34       | 20.84       | 0        |
|           |          |       |            | 25      | 26        | 21.08                           | 21.39       | 21.80       | 21.21       | 20.93       | 0        |
|           |          |       | 50         | 0       | 21.09     | 21.39                           | 21.89       | 21.33       | 20.86       | 0           |          |
|           |          |       | QPSK       | 1       | 1         | 20.57                           | 20.82       | 21.43       | 20.99       | 20.41       | 0        |
|           |          |       |            | 1       | 26        | 20.65                           | 20.93       | 21.63       | 21.01       | 20.54       | 0        |
|           |          |       |            | 1       | 49        | 20.57                           | 20.99       | 21.32       | 20.76       | 20.60       | 0        |
|           |          |       |            | 25      | 0         | 20.92                           | 21.24       | 21.82       | 21.27       | 20.71       | 0        |
|           |          |       |            | 25      | 13        | 20.97                           | 21.24       | 21.86       | 21.29       | 20.78       | 0        |
|           |          |       | 25         | 26      | 20.99     | 21.32                           | 21.74       | 21.17       | 20.88       | 0           |          |
|           |          | 50    | 0          | 21.02   | 21.33     | 21.80                           | 21.26       | 20.80       | 0           |             |          |
| 16QAM     | 1        | 1     | 21.07      | 21.31   | 21.95     | 21.43                           | 20.84       | 0           |             |             |          |
| CP        | QPSK     | 1     | 1          | 21.58   | 21.74     | 22.27                           | 21.84       | 21.21       | 0           |             |          |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200                          | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz                        | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.62                           | 21.10       | 21.51       | 21.38       | 20.60    | 0        |
|           |          |       |            | 1       | 39        | 21.17                           | 21.87       | 22.28       | 21.76       | 21.11    | 0        |
|           |          |       |            | 1       | 76        | 20.75                           | 21.66       | 21.39       | 21.11       | 20.83    | 0        |
|           |          |       |            | 36      | 0         | 20.84                           | 21.56       | 21.91       | 21.62       | 20.87    | 0        |
|           |          |       |            | 36      | 21        | 20.98                           | 21.80       | 22.03       | 21.61       | 20.95    | 0        |
|           |          |       |            | 36      | 42        | 21.01                           | 21.89       | 21.78       | 21.50       | 20.99    | 0        |
|           |          |       |            | 75      | 0         | 20.95                           | 21.72       | 21.92       | 21.56       | 20.97    | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.40                           | 20.85       | 21.31       | 21.19       | 20.37    | 0        |
|           |          |       |            | 1       | 39        | 20.44                           | 21.24       | 21.68       | 21.12       | 20.48    | 0        |
|           |          |       |            | 1       | 76        | 20.55                           | 21.41       | 21.14       | 20.90       | 20.56    | 0        |
|           |          |       |            | 36      | 0         | 20.84                           | 21.54       | 21.87       | 21.58       | 20.88    | 0        |
|           |          |       |            | 36      | 21        | 20.98                           | 21.72       | 21.95       | 21.57       | 20.91    | 0        |
|           |          |       |            | 36      | 42        | 20.97                           | 21.78       | 21.74       | 21.42       | 20.93    | 0        |
|           |          |       | 75         | 0       | 20.86     | 21.63                           | 21.86       | 21.51       | 20.88       | 0        |          |
|           |          |       | 16QAM      | 1       | 1         | 20.85                           | 21.29       | 21.73       | 21.61       | 20.88    | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 21.07                           | 21.52       | 21.93       | 21.85       | 21.06    | 0        |

NR Band n41 \_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |  |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|--|-------------|----------|----------|
|           |          |       |            |         |           | 503202                          | 513468      |  | 523734      | 534000   |          |
|           |          |       |            |         |           | 2516.01 MHz                     | 2567.34 MHz |  | 2618.67 MHz | 2670 MHz |          |
| 40 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.38                           | 20.67       |  | 21.28       | 20.52    | 0        |
|           |          |       |            | 1       | 53        | 21.21                           | 21.91       |  | 21.71       | 21.03    | 0        |
|           |          |       |            | 1       | 104       | 20.70                           | 21.40       |  | 20.74       | 20.47    | 0        |
|           |          |       |            | 50      | 0         | 20.72                           | 21.34       |  | 21.54       | 20.83    | 0        |
|           |          |       |            | 50      | 28        | 21.05                           | 21.67       |  | 21.54       | 20.79    | 0        |
|           |          |       |            | 50      | 56        | 21.00                           | 21.68       |  | 21.35       | 20.75    | 0        |
|           |          |       |            | 100     | 0         | 20.95                           | 21.54       |  | 21.51       | 20.84    | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.11                           | 20.55       |  | 21.11       | 20.28    | 0        |
|           |          |       |            | 1       | 53        | 20.44                           | 21.33       |  | 21.09       | 20.38    | 0        |
|           |          |       |            | 1       | 104       | 20.58                           | 21.24       |  | 20.58       | 20.25    | 0        |
|           |          |       |            | 50      | 0         | 20.68                           | 21.26       |  | 21.49       | 20.76    | 0        |
|           |          |       |            | 50      | 28        | 20.97                           | 21.65       |  | 21.48       | 20.73    | 0        |
|           |          |       |            | 50      | 56        | 20.95                           | 21.66       |  | 21.30       | 20.75    | 0        |
|           |          |       |            | 100     | 0         | 20.85                           | 21.52       |  | 21.46       | 20.78    | 0        |
|           |          |       | 16QAM      | 1       | 1         | 20.79                           | 21.06       |  | 21.64       | 21.15    | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 20.95                           | 21.15       |  | 21.71       | 20.97    | 0        |

NR Band n41 \_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |  |             |  |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|--|-------------|--|-------------|----------|
|           |          |       |            |         |           | 504204                          |  | 518598      |  | 532998      |          |
|           |          |       |            |         |           | 2521.02 MHz                     |  | 2592.99 MHz |  | 2664.99 MHz |          |
| 50 Mhz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.57                           |  | 21.30       |  | 20.85       | 0        |
|           |          |       |            | 1       | 67        | 20.93                           |  | 21.83       |  | 20.71       | 0        |
|           |          |       |            | 1       | 131       | 20.90                           |  | 21.18       |  | 20.69       | 0        |
|           |          |       |            | 64      | 0         | 20.80                           |  | 21.85       |  | 21.03       | 0        |
|           |          |       |            | 64      | 35        | 21.07                           |  | 21.94       |  | 20.84       | 0        |
|           |          |       |            | 64      | 69        | 21.15                           |  | 21.68       |  | 20.80       | 0        |
|           |          |       |            | 128     | 0         | 21.00                           |  | 21.86       |  | 20.93       | 0        |
|           |          |       | QPSK       | 1       | 1         | 20.44                           |  | 21.15       |  | 20.63       | 0        |
|           |          |       |            | 1       | 67        | 20.60                           |  | 21.71       |  | 20.39       | 0        |
|           |          |       |            | 1       | 131       | 20.73                           |  | 21.01       |  | 20.43       | 0        |
|           |          |       |            | 64      | 0         | 20.77                           |  | 21.80       |  | 20.97       | 0        |
|           |          |       |            | 64      | 35        | 21.05                           |  | 21.92       |  | 20.82       | 0        |
|           |          |       |            | 64      | 69        | 21.10                           |  | 21.64       |  | 20.79       | 0        |
|           |          |       |            | 128     | 0         | 20.93                           |  | 21.79       |  | 20.90       | 0        |
|           |          |       | 16QAM      | 1       | 1         | 20.91                           |  | 21.65       |  | 21.05       | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 21.16                           |  | 21.85       |  | 21.30       | 0        |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |             |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------|-------------|-------|----------|-------------|
|           |          |       |            |         |           | 505200                          |       | 518598      |       |          | 531996      |
|           |          |       |            |         |           | 2526 MHz                        |       | 2592.99 MHz |       |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.47                           |       | 21.04       |       | 20.91    | 1           |
|           |          |       |            | 1       | 81        | 21.22                           |       | 22.16       |       | 21.01    | 1           |
|           |          |       |            | 1       | 160       | 20.94                           |       | 20.96       |       | 20.55    | 1           |
|           |          |       |            | 81      | 0         | 20.79                           |       | 21.79       |       | 21.13    | 81          |
|           |          |       |            | 81      | 41        | 21.12                           |       | 21.86       |       | 20.91    | 81          |
|           |          |       |            | 81      | 81        | 21.14                           |       | 21.59       |       | 20.71    | 81          |
|           |          |       |            | 162     | 0         | 21.00                           |       | 21.73       |       | 21.01    | 162         |
|           |          |       | QPSK       | 1       | 1         | 20.56                           |       | 21.06       |       | 20.74    | 1           |
|           |          |       |            | 1       | 81        | 21.04                           |       | 21.45       |       | 20.65    | 1           |
|           |          |       |            | 1       | 160       | 21.09                           |       | 20.96       |       | 20.47    | 1           |
|           |          |       |            | 81      | 0         | 20.71                           |       | 21.70       |       | 21.07    | 81          |
|           |          |       |            | 81      | 41        | 21.11                           |       | 21.80       |       | 20.88    | 81          |
|           |          |       |            | 81      | 81        | 21.07                           |       | 21.52       |       | 20.66    | 81          |
|           |          |       |            | 162     | 0         | 20.96                           |       | 21.68       |       | 20.96    | 162         |
|           |          | 16QAM | 1          | 1       | 20.70     |                                 | 21.39 |             | 21.24 | 1        |             |
| CP        | QPSK     | 1     | 1          | 21.01   |           | 21.67                           |       | 21.31       | 1     |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |  |  | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------|--|--|----------|-------------|
|           |          |       |            |         |           | 507204                          |       |  |  |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz                     |       |  |  |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.22                           |       |  |  | 20.99    | 0           |
|           |          |       |            | 1       | 109       | 21.10                           |       |  |  | 21.02    | 0           |
|           |          |       |            | 1       | 215       | 21.17                           |       |  |  | 20.37    | 0           |
|           |          |       |            | 108     | 0         | 20.84                           |       |  |  | 21.32    | 0           |
|           |          |       |            | 108     | 55        | 21.15                           |       |  |  | 21.11    | 0           |
|           |          |       |            | 108     | 109       | 21.34                           |       |  |  | 20.77    | 0           |
|           |          |       |            | 216     | 0         | 21.07                           |       |  |  | 21.04    | 0           |
|           |          |       | QPSK       | 1       | 1         | 19.93                           |       |  |  | 20.79    | 0           |
|           |          |       |            | 1       | 109       | 20.99                           |       |  |  | 20.79    | 0           |
|           |          |       |            | 1       | 215       | 20.95                           |       |  |  | 20.16    | 0           |
|           |          |       |            | 108     | 0         | 20.76                           |       |  |  | 21.22    | 0           |
|           |          |       |            | 108     | 55        | 21.10                           |       |  |  | 21.06    | 0           |
|           |          |       |            | 108     | 109       | 21.29                           |       |  |  | 20.72    | 0           |
|           |          |       |            | 216     | 0         | 21.03                           |       |  |  | 21.00    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 20.41                           |       |  |  | 21.25    | 0           |
|           |          |       | CP         | QPSK    | 1         | 1                               | 20.63 |  |  |          | 21.30       |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |  |       |             | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|--|-------|-------------|----------|---|
|           |          |       |            |         |           | 508200                          |  |       | 528996      |          |   |
|           |          |       |            |         |           | 2541 MHz                        |  |       | 2644.98 MHz |          |   |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 20.03                           |  |       |             | 20.98    | 0 |
|           |          |       |            | 1       | 123       | 21.12                           |  |       |             | 21.06    | 0 |
|           |          |       |            | 1       | 243       | 21.18                           |  |       |             | 20.20    | 0 |
|           |          |       |            | 120     | 0         | 20.75                           |  |       |             | 21.32    | 0 |
|           |          |       |            | 120     | 63        | 21.15                           |  |       |             | 21.10    | 0 |
|           |          |       |            | 120     | 125       | 21.37                           |  |       |             | 20.66    | 0 |
|           |          |       |            | 243     | 0         | 21.05                           |  |       |             | 20.98    | 0 |
|           |          |       | QPSK       | 1       | 1         | 19.84                           |  |       |             | 20.79    | 0 |
|           |          |       |            | 1       | 123       | 20.87                           |  |       |             | 20.83    | 0 |
|           |          |       |            | 1       | 243       | 20.96                           |  |       |             | 20.04    | 0 |
|           |          |       |            | 120     | 0         | 20.69                           |  |       |             | 21.25    | 0 |
|           |          |       |            | 120     | 63        | 21.06                           |  |       |             | 21.06    | 0 |
|           |          |       |            | 120     | 125       | 21.30                           |  |       |             | 20.63    | 0 |
|           |          |       |            | 243     | 0         | 21.03                           |  |       |             | 20.93    | 0 |
|           |          |       | 16QAM      | 1       | 1         | 20.25                           |  |       |             | 21.17    | 0 |
| CP        | QPSK     | 1     | 1          | 20.44   |           |                                 |  | 21.23 | 0           |          |   |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |  |             |   | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|--|-------------|---|----------|---|
|           |          |       |            |         |           |                                 |  | 518598      |   |          |   |
|           |          |       |            |         |           |                                 |  | 2592.99 MHz |   |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                                 |  | 20.21       |   |          | 0 |
|           |          |       |            | 1       | 137       |                                 |  | 21.88       |   |          | 0 |
|           |          |       |            | 1       | 271       |                                 |  | 20.28       |   |          | 0 |
|           |          |       |            | 135     | 0         |                                 |  | 21.39       |   |          | 0 |
|           |          |       |            | 135     | 67        |                                 |  | 21.71       |   |          | 0 |
|           |          |       |            | 135     | 138       |                                 |  | 21.37       |   |          | 0 |
|           |          |       |            | 270     | 0         |                                 |  | 21.33       |   |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                                 |  | 19.99       |   |          | 0 |
|           |          |       |            | 1       | 137       |                                 |  | 21.67       |   |          | 0 |
|           |          |       |            | 1       | 271       |                                 |  | 20.13       |   |          | 0 |
|           |          |       |            | 135     | 0         |                                 |  | 21.32       |   |          | 0 |
|           |          |       |            | 135     | 67        |                                 |  | 21.70       |   |          | 0 |
|           |          |       |            | 135     | 138       |                                 |  | 21.32       |   |          | 0 |
|           |          |       |            | 270     | 0         |                                 |  | 21.33       |   |          | 0 |
|           |          |       | 16QAM      | 1       | 1         |                                 |  | 20.40       |   |          | 0 |
| CP        | QPSK     | 1     | 1          |         |           | 20.59                           |  |             | 0 |          |   |

[ NR Band n77 Conducted Power ] \_Receiver ON

NR Band n77\_ 10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |          |          |          |          |          | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|----------|----------|----------|----------|----------|----------|
|           |          |            |            |         |           | 647000                          | 650600   | 654200   | 657800   | 661400   | 665000   |          |
|           |          |            |            |         |           | 3705 MHz                        | 3759 MHz | 3813 MHz | 3867 MHz | 3921 MHz | 3975 MHz |          |
| 10 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.95                           | 19.32    | 18.83    | 18.52    | 19.04    | 19.25    | 0        |
|           |          |            |            | 1       | 12        | 19.07                           | 19.40    | 18.89    | 18.59    | 19.08    | 19.33    | 0        |
|           |          |            |            | 1       | 22        | 18.99                           | 19.27    | 18.74    | 18.55    | 19.11    | 19.25    | 0        |
|           |          |            |            | 12      | 0         | 19.05                           | 19.40    | 18.92    | 18.63    | 19.17    | 19.33    | 0        |
|           |          |            |            | 12      | 6         | 19.09                           | 19.40    | 18.89    | 18.64    | 19.22    | 19.36    | 0        |
|           |          |            |            | 12      | 12        | 19.08                           | 19.38    | 18.88    | 18.63    | 19.21    | 19.37    | 0        |
|           |          |            | QPSK       | 24      | 0         | 19.03                           | 19.38    | 18.90    | 18.63    | 19.21    | 19.36    | 0        |
|           |          |            |            | 1       | 1         | 18.88                           | 19.32    | 18.77    | 18.47    | 18.99    | 19.23    | 0        |
|           |          |            |            | 1       | 12        | 19.01                           | 19.30    | 18.84    | 18.57    | 19.10    | 19.29    | 0        |
|           |          |            |            | 1       | 22        | 18.97                           | 19.20    | 18.74    | 18.51    | 19.10    | 19.22    | 0        |
|           |          |            |            | 12      | 0         | 19.06                           | 19.40    | 18.94    | 18.64    | 19.20    | 19.13    | 0        |
|           |          |            |            | 12      | 6         | 19.11                           | 19.40    | 18.91    | 18.63    | 19.22    | 19.39    | 0        |
|           |          |            | 16QAM      | 12      | 12        | 19.08                           | 19.39    | 18.90    | 18.63    | 19.22    | 19.37    | 0        |
|           |          |            |            | 24      | 0         | 19.06                           | 19.41    | 18.92    | 18.64    | 19.21    | 19.37    | 0        |
|           |          |            |            | 1       | 1         | 18.84                           | 19.28    | 18.47    | 18.14    | 18.78    | 18.92    | 0        |
| CP        | QPSK     | 1          | 1          | 18.96   | 19.39     | 18.90                           | 18.57    | 19.07    | 19.29    | 0        |          |          |

NR Band n77\_ 15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |            |             |            |            |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|------------|-------------|------------|------------|-------------|----------|
|           |          |            |            |         |           | 647166                          | 650700     | 654232      | 657766     | 661300     | 664832      |          |
|           |          |            |            |         |           | 3707.5 MHz                      | 3760.5 MHz | 3813.49 MHz | 3866.5 MHz | 3919.5 MHz | 3972.49 MHz |          |
| 15 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.99                           | 19.35      | 18.83       | 18.50      | 18.91      | 19.28       | 0        |
|           |          |            |            | 1       | 18        | 19.14                           | 19.38      | 18.86       | 18.54      | 19.08      | 19.39       | 0        |
|           |          |            |            | 1       | 36        | 19.09                           | 19.23      | 18.74       | 18.52      | 19.07      | 19.33       | 0        |
|           |          |            |            | 18      | 0         | 19.08                           | 19.42      | 18.90       | 18.59      | 19.09      | 19.40       | 0        |
|           |          |            |            | 18      | 9         | 19.16                           | 19.41      | 18.91       | 18.61      | 19.13      | 19.44       | 0        |
|           |          |            |            | 18      | 18        | 19.21                           | 19.39      | 18.90       | 18.61      | 19.17      | 19.47       | 0        |
|           |          |            | QPSK       | 36      | 0         | 19.12                           | 19.43      | 18.90       | 18.61      | 19.12      | 19.45       | 0        |
|           |          |            |            | 1       | 1         | 18.96                           | 19.33      | 18.83       | 18.51      | 18.90      | 19.27       | 0        |
|           |          |            |            | 1       | 18        | 19.10                           | 19.35      | 18.82       | 18.53      | 19.04      | 19.39       | 0        |
|           |          |            |            | 1       | 36        | 19.08                           | 19.21      | 18.71       | 18.48      | 19.04      | 19.32       | 0        |
|           |          |            |            | 18      | 0         | 19.11                           | 19.45      | 18.94       | 18.64      | 19.14      | 19.46       | 0        |
|           |          |            |            | 18      | 9         | 19.19                           | 19.42      | 18.91       | 18.61      | 19.16      | 19.48       | 0        |
|           |          |            | 16QAM      | 18      | 18        | 19.20                           | 19.37      | 18.89       | 18.61      | 19.19      | 19.48       | 0        |
|           |          |            |            | 36      | 0         | 19.15                           | 19.43      | 18.93       | 18.64      | 19.14      | 19.45       | 0        |
|           |          |            |            | 1       | 1         | 18.78                           | 19.06      | 18.57       | 18.15      | 18.87      | 19.03       | 0        |
| CP        | QPSK     | 1          | 1          | 19.02   | 19.42     | 18.91                           | 18.58      | 19.03       | 19.32      | 0          |             |          |

NR Band n77\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |          |          |          |          |             | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|----------|----------|----------|----------|-------------|----------|---|
|           |          |            |            |         |           | 347334                          | 650800   | 654266   | 657733   | 661200   | 664666      |          |   |
|           |          |            |            |         |           | 3710 MHz                        | 3762 MHz | 3814 MHz | 3866 MHz | 3918 MHz | 3969.99 MHz |          |   |
| 20 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.97                           | 19.29    | 18.80    | 18.45    | 18.85    | 19.15       | 0        |   |
|           |          |            |            | 1       | 26        | 19.17                           | 19.34    | 18.82    | 18.54    | 19.08    | 19.27       | 0        |   |
|           |          |            |            | 1       | 49        | 19.14                           | 19.13    | 18.70    | 18.41    | 19.05    | 19.21       | 0        |   |
|           |          |            |            | 25      | 0         | 19.14                           | 19.47    | 18.96    | 18.59    | 19.04    | 19.34       | 0        |   |
|           |          |            |            | 25      | 13        | 19.21                           | 19.43    | 18.91    | 18.61    | 19.13    | 19.35       | 0        |   |
|           |          |            |            | 25      | 26        | 19.23                           | 19.33    | 18.84    | 18.58    | 19.20    | 19.35       | 0        |   |
|           |          |            | QPSK       | 50      | 0         | 19.16                           | 19.40    | 18.90    | 18.57    | 19.10    | 19.36       | 0        |   |
|           |          |            |            | 1       | 1         | 18.93                           | 19.30    | 18.79    | 18.42    | 18.84    | 19.15       | 0        |   |
|           |          |            |            | 1       | 26        | 19.15                           | 19.34    | 18.79    | 18.50    | 19.02    | 19.29       | 0        |   |
|           |          |            |            | 1       | 49        | 19.13                           | 19.10    | 18.67    | 18.41    | 19.00    | 19.19       | 0        |   |
|           |          |            |            | 25      | 0         | 19.15                           | 19.46    | 18.94    | 18.61    | 19.03    | 19.34       | 0        |   |
|           |          |            |            | 25      | 13        | 19.22                           | 19.44    | 18.92    | 18.60    | 19.15    | 19.41       | 0        |   |
|           |          |            | 16QAM      | 25      | 26        | 19.24                           | 19.34    | 18.85    | 18.57    | 19.13    | 19.36       | 0        |   |
|           |          |            |            | 50      | 0         | 19.21                           | 19.44    | 18.94    | 18.61    | 19.13    | 19.40       | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                               | 19.03    | 19.38    | 18.85    | 18.47    | 18.85       | 19.25    | 0 |

NR Band n77\_25 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |            |            |            |            |            | MPR [dB] |       |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|------------|------------|------------|------------|------------|----------|-------|
|           |          |            |            |         |           | 647500                          | 650900     | 654300     | 657700     | 661100     | 664500     |          |       |
|           |          |            |            |         |           | 3712.5 MHz                      | 3763.5 MHz | 3814.5 MHz | 3865.5 MHz | 3916.5 MHz | 3967.5 MHz |          |       |
| 25 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.90                           | 19.31      | 18.75      | 18.35      | 18.68      | 19.08      | 0        |       |
|           |          |            |            | 1       | 32        | 19.29                           | 19.46      | 18.94      | 18.65      | 19.14      | 19.48      | 0        |       |
|           |          |            |            | 1       | 63        | 19.14                           | 19.07      | 18.60      | 18.37      | 18.95      | 19.19      | 0        |       |
|           |          |            |            | 32      | 0         | 19.17                           | 19.44      | 18.92      | 18.53      | 18.94      | 19.33      | 0        |       |
|           |          |            |            | 32      | 16        | 19.28                           | 19.44      | 18.90      | 18.61      | 19.06      | 19.42      | 0        |       |
|           |          |            |            | 32      | 32        | 19.29                           | 19.34      | 18.83      | 18.55      | 19.10      | 19.43      | 0        |       |
|           |          |            | QPSK       | 64      | 0         | 19.24                           | 19.39      | 18.90      | 18.56      | 19.06      | 19.40      | 0        |       |
|           |          |            |            | 1       | 1         | 18.87                           | 19.27      | 18.75      | 18.31      | 18.65      | 19.12      | 0        |       |
|           |          |            |            | 1       | 32        | 19.45                           | 19.45      | 19.05      | 18.54      | 19.04      | 19.73      | 0        |       |
|           |          |            |            | 1       | 63        | 19.11                           | 19.03      | 18.60      | 18.35      | 18.91      | 19.16      | 0        |       |
|           |          |            |            | 32      | 0         | 19.19                           | 19.45      | 18.93      | 18.54      | 18.95      | 19.34      | 0        |       |
|           |          |            |            | 32      | 16        | 19.32                           | 19.46      | 18.92      | 18.61      | 19.09      | 19.48      | 0        |       |
|           |          |            | 16QAM      | 32      | 32        | 19.30                           | 19.34      | 18.83      | 18.56      | 19.12      | 19.44      | 0        |       |
|           |          |            |            | 64      | 0         | 19.24                           | 19.41      | 18.91      | 18.58      | 19.05      | 19.40      | 0        |       |
|           |          |            | CP         | QPSK    | 1         | 1                               | 18.84      | 19.03      | 18.46      | 18.23      | 18.55      | 18.71    | 0     |
|           |          |            |            |         |           |                                 |            |            | 18.97      | 19.39      | 18.87      | 18.35    | 18.77 |



NR Band n77\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |        |         |         |        |         | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|--------|---------|---------|--------|---------|----------|
|           |          |            |            |         |           | 647666                          | 651000 | 654334  | 657666  | 661000 | 664334  |          |
|           |          |            |            |         |           | 3714.99                         | 3765   | 3815.01 | 3864.99 | 3915   | 3965.01 |          |
|           |          |            |            |         |           | MHz                             | MHz    | MHz     | MHz     | MHz    | MHz     |          |
| 30 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.87                           | 19.07  | 18.54   | 18.40   | 18.54  | 19.01   | 0        |
|           |          |            |            | 1       | 39        | 19.31                           | 19.27  | 18.70   | 18.70   | 18.97  | 19.40   | 0        |
|           |          |            |            | 1       | 76        | 19.11                           | 18.79  | 18.39   | 18.38   | 18.83  | 19.07   | 0        |
|           |          |            |            | 36      | 0         | 19.18                           | 19.27  | 18.77   | 18.64   | 18.87  | 19.23   | 0        |
|           |          |            |            | 36      | 21        | 19.33                           | 19.26  | 18.74   | 18.72   | 19.02  | 19.34   | 0        |
|           |          |            |            | 36      | 42        | 19.31                           | 19.11  | 18.63   | 18.61   | 19.01  | 19.29   | 0        |
|           |          |            | 75         | 0       | 19.29     | 19.22                           | 18.72  | 18.68   | 18.95   | 19.31  | 0       |          |
|           |          |            | QPSK       | 1       | 1         | 18.84                           | 19.07  | 18.55   | 18.38   | 18.53  | 19.00   | 0        |
|           |          |            |            | 1       | 39        | 19.26                           | 19.19  | 18.69   | 18.69   | 18.94  | 19.28   | 0        |
|           |          |            |            | 1       | 76        | 19.12                           | 18.78  | 18.36   | 18.42   | 18.79  | 19.07   | 0        |
|           |          |            |            | 36      | 0         | 19.21                           | 19.28  | 18.76   | 18.66   | 18.88  | 19.26   | 0        |
|           |          |            |            | 36      | 21        | 19.34                           | 19.27  | 18.76   | 18.75   | 19.01  | 19.37   | 0        |
|           |          |            |            | 36      | 42        | 19.33                           | 19.14  | 18.65   | 18.63   | 19.04  | 19.31   | 0        |
|           |          |            | 75         | 0       | 19.31     | 19.22                           | 18.72  | 18.70   | 18.96   | 19.32  | 0       |          |
|           |          |            | 16QAM      | 1       | 1         | 18.56                           | 18.74  | 18.51   | 18.25   | 18.40  | 18.87   | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                               | 18.94  | 19.18   | 18.60   | 18.46  | 18.60   | 19.08    |

NR Band n77\_40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |        |        |        |        |        | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|--------|--------|--------|--------|--------|----------|
|           |          |            |            |         |           | 648000                          | 651200 | 654400 | 657600 | 660800 | 664000 |          |
|           |          |            |            |         |           | 3720                            | 3768   | 3816   | 3864   | 3912   | 3960   |          |
|           |          |            |            |         |           | MHz                             | MHz    | MHz    | MHz    | MHz    | MHz    |          |
| 40 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.56                           | 18.91  | 18.42  | 18.21  | 18.35  | 18.84  | 0        |
|           |          |            |            | 1       | 53        | 19.21                           | 19.27  | 18.76  | 18.69  | 19.02  | 19.50  | 0        |
|           |          |            |            | 1       | 104       | 18.91                           | 18.57  | 18.17  | 18.23  | 18.74  | 18.97  | 0        |
|           |          |            |            | 50      | 0         | 19.05                           | 19.23  | 18.75  | 18.61  | 18.85  | 19.30  | 0        |
|           |          |            |            | 50      | 28        | 19.28                           | 19.23  | 18.75  | 18.72  | 19.09  | 19.40  | 0        |
|           |          |            |            | 50      | 56        | 19.26                           | 19.04  | 18.58  | 18.61  | 19.07  | 19.32  | 0        |
|           |          |            | 100        | 0       | 19.16     | 19.20                           | 18.71  | 18.64  | 19.00  | 19.32  | 0      |          |
|           |          |            | QPSK       | 1       | 1         | 18.53                           | 18.91  | 18.40  | 18.21  | 18.33  | 18.81  | 0        |
|           |          |            |            | 1       | 53        | 19.22                           | 19.24  | 18.69  | 18.67  | 19.05  | 19.41  | 0        |
|           |          |            |            | 1       | 104       | 18.88                           | 18.56  | 18.16  | 18.21  | 18.72  | 18.93  | 0        |
|           |          |            |            | 50      | 0         | 19.06                           | 19.24  | 18.76  | 18.64  | 18.86  | 19.33  | 0        |
|           |          |            |            | 50      | 28        | 19.29                           | 19.26  | 18.77  | 18.73  | 19.09  | 19.42  | 0        |
|           |          |            |            | 50      | 56        | 19.26                           | 19.04  | 18.60  | 18.60  | 19.08  | 19.33  | 0        |
|           |          |            | 100        | 0       | 19.18     | 19.20                           | 18.73  | 18.64  | 19.02  | 19.34  | 0      |          |
|           |          |            | 16QAM      | 1       | 1         | 18.49                           | 18.85  | 18.36  | 17.85  | 18.23  | 18.53  | 0        |
|           |          |            | CP         | QPSK    | 1         | 1                               | 18.62  | 18.99  | 18.44  | 18.23  | 18.41  | 18.89    |

NR Band n77\_ 50 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power _Receiver ON [dBm] |        |        |       |        |        | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|----------------------------------|--------|--------|-------|--------|--------|----------|---|
|           |          |            |            |         |           | 648334                           | 652134 | 655934 |       | 659800 | 663666 |          |   |
|           |          |            |            |         |           | 3725                             | 3782   | 3839   |       | 3896   | 3955   |          |   |
|           |          |            |            |         |           | MHz                              | MHz    | MHz    |       | MHz    | MHz    |          |   |
| 50 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.76                            | 19.14  | 18.51  |       | 18.31  | 19.02  | 0        |   |
|           |          |            |            | 1       | 67        | 19.21                            | 19.11  | 18.66  |       | 18.75  | 19.43  | 0        |   |
|           |          |            |            | 1       | 131       | 19.20                            | 18.65  | 18.42  |       | 18.84  | 19.16  | 0        |   |
|           |          |            |            | 64      | 0         | 19.09                            | 19.30  | 18.70  |       | 18.63  | 19.41  | 0        |   |
|           |          |            |            | 64      | 35        | 19.26                            | 19.21  | 18.73  |       | 18.83  | 19.50  | 0        |   |
|           |          |            |            | 64      | 69        | 19.35                            | 18.99  | 18.64  |       | 18.91  | 19.40  | 0        |   |
|           |          |            | QPSK       | 128     | 0         | 19.19                            | 19.15  | 18.66  |       | 18.76  | 19.42  | 0        |   |
|           |          |            |            | 1       | 1         | 18.75                            | 19.13  | 18.50  |       | 18.32  | 19.01  | 0        |   |
|           |          |            |            | 1       | 67        | 19.18                            | 19.12  | 18.65  |       | 18.72  | 19.41  | 0        |   |
|           |          |            |            | 1       | 131       | 19.18                            | 18.66  | 18.42  |       | 18.82  | 19.16  | 0        |   |
|           |          |            |            | 64      | 0         | 19.09                            | 19.30  | 18.71  |       | 18.64  | 19.42  | 0        |   |
|           |          |            |            | 64      | 35        | 19.27                            | 19.23  | 18.75  |       | 18.87  | 19.52  | 0        |   |
|           |          |            |            | 64      | 69        | 19.36                            | 19.00  | 18.67  |       | 18.94  | 19.43  | 0        |   |
|           |          |            |            | 128     | 0         | 19.21                            | 19.18  | 18.69  |       | 18.79  | 19.46  | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 18.58                            | 19.00  | 18.48  |       | 18.18  | 18.85  | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                                | 18.83  | 19.22  | 18.61 |        | 18.42  | 19.13    | 0 |

NR Band n77\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power _Receiver ON [dBm] |        |        |       |        |        | MPR [dB] |   |
|-----------|----------|------------|------------|---------|-----------|----------------------------------|--------|--------|-------|--------|--------|----------|---|
|           |          |            |            |         |           | 648666                           | 652334 | 656000 |       | 659666 | 663334 |          |   |
|           |          |            |            |         |           | 3730                             | 3730   | 3840   |       | 3895   | 3950   |          |   |
|           |          |            |            |         |           | MHz                              | MHz    | MHz    |       | MHz    | MHz    |          |   |
| 60 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.73                            | 18.98  | 18.47  |       | 18.31  | 18.76  | 0        |   |
|           |          |            |            | 1       | 81        | 19.29                            | 18.98  | 18.68  |       | 18.82  | 19.35  | 0        |   |
|           |          |            |            | 1       | 160       | 19.09                            | 18.44  | 18.33  |       | 18.83  | 19.06  | 0        |   |
|           |          |            |            | 81      | 0         | 19.12                            | 19.12  | 18.70  |       | 18.70  | 19.23  | 0        |   |
|           |          |            |            | 81      | 41        | 19.35                            | 18.99  | 18.76  |       | 18.93  | 19.40  | 0        |   |
|           |          |            |            | 81      | 81        | 19.36                            | 18.78  | 18.60  |       | 18.92  | 19.30  | 0        |   |
|           |          |            | QPSK       | 162     | 0         | 19.20                            | 18.96  | 18.62  |       | 18.81  | 19.30  | 0        |   |
|           |          |            |            | 1       | 1         | 18.73                            | 18.99  | 18.47  |       | 18.32  | 18.78  | 0        |   |
|           |          |            |            | 1       | 81        | 19.27                            | 18.96  | 18.66  |       | 18.85  | 19.34  | 0        |   |
|           |          |            |            | 1       | 160       | 19.09                            | 18.45  | 18.35  |       | 18.85  | 19.09  | 0        |   |
|           |          |            |            | 81      | 0         | 19.11                            | 19.10  | 18.69  |       | 18.69  | 19.24  | 0        |   |
|           |          |            |            | 81      | 41        | 19.36                            | 19.03  | 18.76  |       | 18.94  | 19.43  | 0        |   |
|           |          |            |            | 81      | 81        | 19.36                            | 18.79  | 18.62  |       | 18.99  | 19.31  | 0        |   |
|           |          |            |            | 162     | 0         | 19.22                            | 19.00  | 18.66  |       | 18.83  | 19.32  | 0        |   |
|           |          |            | 16QAM      | 1       | 1         | 18.53                            | 18.81  | 18.29  |       | 18.13  | 18.42  | 0        |   |
|           |          |            | CP         | QPSK    | 1         | 1                                | 18.81  | 19.07  | 18.54 |        | 18.39  | 18.83    | 0 |

NR Band n77\_ 80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |       |       |             |             | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|-------------|-------|-------|-------------|-------------|----------|
|           |          |            |            |         |           | 662666                          | 653800      |       |       | 658200      | 662666      |          |
|           |          |            |            |         |           | 3740<br>MHz                     | 3807<br>MHz |       |       | 3873<br>MHz | 3940<br>MHz |          |
| 80 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.38                           | 18.75       |       |       | 18.18       | 18.38       | 0        |
|           |          |            |            | 1       | 109       | 19.26                           | 18.75       |       |       | 18.61       | 19.26       | 0        |
|           |          |            |            | 1       | 215       | 18.90                           | 18.22       |       |       | 18.55       | 18.91       | 0        |
|           |          |            |            | 108     | 0         | 19.06                           | 18.96       |       |       | 18.61       | 19.06       | 0        |
|           |          |            |            | 108     | 55        | 19.33                           | 18.84       |       |       | 18.72       | 19.32       | 0        |
|           |          |            |            | 108     | 109       | 19.28                           | 18.68       |       |       | 18.74       | 19.27       | 0        |
|           |          |            | QPSK       | 216     | 0         | 19.17                           | 18.82       |       |       | 18.64       | 19.21       | 0        |
|           |          |            |            | 1       | 1         | 18.42                           | 18.79       |       |       | 18.16       | 18.35       | 0        |
|           |          |            |            | 1       | 109       | 19.29                           | 18.78       |       |       | 18.60       | 19.22       | 0        |
|           |          |            |            | 1       | 215       | 18.93                           | 18.28       |       |       | 18.57       | 18.86       | 0        |
|           |          |            |            | 108     | 0         | 19.08                           | 18.98       |       |       | 18.61       | 19.07       | 0        |
|           |          |            |            | 108     | 55        | 19.34                           | 18.85       |       |       | 18.73       | 19.34       | 0        |
|           |          |            |            | 108     | 109       | 19.29                           | 18.70       |       |       | 18.80       | 19.28       | 0        |
|           |          |            |            | 216     | 0         | 19.20                           | 18.84       |       |       | 18.68       | 19.19       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                               | 18.15       | 18.73 |       |             | 18.31       | 18.21    |
| CP        | QPSK     | 1          | 1          | 18.45   | 18.85     |                                 |             | 18.27 | 18.45 | 0           |             |          |

NR Band n77\_ 90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |             |       |             |       | MPR [dB] |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|-------|-------------|-------|-------------|-------|----------|
|           |          |            |            |         |           | 649666                          |       | 656000      |       | 662334      |       |          |
|           |          |            |            |         |           | 3745<br>MHz                     |       | 3840<br>MHz |       | 3935<br>MHz |       |          |
| 90 MHz    | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.48                           |       | 18.35       |       | 18.13       |       | 0        |
|           |          |            |            | 1       | 123       | 19.42                           |       | 18.65       |       | 19.14       |       | 0        |
|           |          |            |            | 1       | 243       | 18.49                           |       | 18.12       |       | 18.79       |       | 0        |
|           |          |            |            | 120     | 0         | 19.18                           |       | 18.69       |       | 18.87       |       | 0        |
|           |          |            |            | 120     | 63        | 19.43                           |       | 18.70       |       | 19.20       |       | 0        |
|           |          |            |            | 120     | 125       | 19.20                           |       | 18.55       |       | 19.14       |       | 0        |
|           |          |            | QPSK       | 243     | 0         | 19.21                           |       | 18.64       |       | 19.07       |       | 0        |
|           |          |            |            | 1       | 1         | 18.47                           |       | 18.35       |       | 18.12       |       | 0        |
|           |          |            |            | 1       | 123       | 19.43                           |       | 18.63       |       | 19.12       |       | 0        |
|           |          |            |            | 1       | 243       | 18.49                           |       | 18.12       |       | 18.76       |       | 0        |
|           |          |            |            | 120     | 0         | 19.20                           |       | 18.72       |       | 18.89       |       | 0        |
|           |          |            |            | 120     | 63        | 19.45                           |       | 18.69       |       | 19.20       |       | 0        |
|           |          |            |            | 120     | 125       | 19.21                           |       | 18.58       |       | 19.14       |       | 0        |
|           |          |            |            | 243     | 0         | 19.21                           |       | 18.65       |       | 19.09       |       | 0        |
|           |          |            |            | 16QAM   | 1         | 1                               | 18.56 |             | 18.46 |             | 18.16 |          |
| CP        | QPSK     | 1          | 1          | 18.58   |           | 18.45                           |       | 18.20       |       | 0           |       |          |

NR Band n77\_ 100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM       | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |             |       |             |   | MPR [dB] |  |
|-----------|----------|------------|------------|---------|-----------|---------------------------------|-------|-------------|-------|-------------|---|----------|--|
|           |          |            |            |         |           | 650000                          |       | 656000      |       | 662000      |   |          |  |
|           |          |            |            |         |           | 3750<br>MHz                     |       | 3840<br>MHz |       | 3930<br>MHz |   |          |  |
| 100 MHz   | 30       | DFT-s OFDM | PI/2 BPSK  | 1       | 1         | 18.37                           |       | 18.30       |       | 17.89       |   | 0        |  |
|           |          |            |            | 1       | 137       | 19.42                           |       | 18.66       |       | 19.13       |   | 0        |  |
|           |          |            |            | 1       | 271       | 18.34                           |       | 18.12       |       | 18.66       |   | 0        |  |
|           |          |            |            | 135     | 0         | 19.11                           |       | 18.65       |       | 18.78       |   | 0        |  |
|           |          |            |            | 135     | 67        | 19.35                           |       | 18.68       |       | 19.20       |   | 0        |  |
|           |          |            |            | 135     | 138       | 19.10                           |       | 18.54       |       | 19.10       |   | 0        |  |
|           |          |            | 270        | 0       | 19.08     |                                 | 18.57 |             | 19.02 |             | 0 |          |  |
|           |          |            | QPSK       | 1       | 1         | 18.33                           |       | 18.31       |       | 17.91       |   | 0        |  |
|           |          |            |            | 1       | 137       | 19.41                           |       | 18.67       |       | 19.18       |   | 0        |  |
|           |          |            |            | 1       | 271       | 18.31                           |       | 18.13       |       | 18.68       |   | 0        |  |
|           |          |            |            | 135     | 0         | 19.10                           |       | 18.68       |       | 18.81       |   | 0        |  |
|           |          |            |            | 135     | 67        | 19.37                           |       | 18.71       |       | 19.21       |   | 0        |  |
|           |          |            |            | 135     | 138       | 19.09                           |       | 18.57       |       | 19.12       |   | 0        |  |
|           |          |            | 270        | 0       | 19.08     |                                 | 18.61 |             | 19.06 |             | 0 |          |  |
|           |          |            |            |         | 16QAM     | 1                               | 1     | 18.25       |       | 18.06       |   | 17.66    |  |
|           |          |            |            | CP      | QPSK      | 1                               | 1     | 18.43       |       | 18.36       |   | 17.98    |  |

### 11.5.5 NR Band Conducted Power (SA Only) - SUBAnt.#2

#### [ NR Band n41 Maximum Conducted Power ] \_ Power Class 2 \_ SUBAnt.#2

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |          |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|----------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 500202                   | 509400   | 518598      | 527802      | 53700    |          |
|           |          |       |            |         |           | 2501.01 MHz              | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.84                    | 26.76    | 26.62       | 26.58       | 26.79    | 0        |
|           |          |       |            | 1       | 12        | 26.90                    | 26.82    | 26.80       | 26.68       | 26.87    | 0        |
|           |          |       |            | 1       | 22        | 26.92                    | 26.67    | 26.60       | 26.57       | 26.81    | 0        |
|           |          |       |            | 12      | 0         | 26.47                    | 26.33    | 26.25       | 26.22       | 26.44    | 0.5      |
|           |          |       |            | 12      | 6         | 26.87                    | 26.80    | 26.74       | 26.67       | 26.85    | 0        |
|           |          |       |            | 12      | 12        | 26.46                    | 26.28    | 26.26       | 26.16       | 26.46    | 0.5      |
|           |          |       |            | 24      | 0         | 26.49                    | 26.32    | 26.26       | 26.19       | 26.47    | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 26.87                    | 26.76    | 26.61       | 26.54       | 26.81    | 0        |
|           |          |       |            | 1       | 12        | 26.86                    | 26.74    | 26.73       | 26.65       | 26.82    | 0        |
|           |          |       |            | 1       | 22        | 26.91                    | 26.63    | 26.58       | 26.55       | 26.85    | 0        |
|           |          |       |            | 12      | 0         | 25.82                    | 25.83    | 25.76       | 25.76       | 25.97    | 1        |
|           |          |       |            | 12      | 6         | 26.89                    | 26.77    | 26.75       | 26.66       | 26.85    | 0        |
|           |          |       |            | 12      | 12        | 25.89                    | 25.78    | 25.76       | 25.70       | 25.95    | 1        |
|           |          |       | 24         | 0       | 25.81     | 25.83                    | 25.77    | 25.70       | 25.92       | 1        |          |
|           |          |       | 16QAM      | 1       | 1         | 25.97                    | 25.76    | 25.77       | 25.73       | 25.94    | 1        |
|           |          |       | CP         | QPSK    | 1         | 1                        | 25.41    | 25.36       | 25.22       | 25.12    | 25.41    |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |             | MPR [dB] |     |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|-------------|----------|-----|
|           |          |       |            |         |           | 500700                   | 509664      | 518598      | 527562      | 536496      |          |     |
|           |          |       |            |         |           | 2503.5 MHz               | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |     |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.87                    | 26.77       | 26.62       | 26.53       | 26.62       | 0        |     |
|           |          |       |            | 1       | 39        | 26.88                    | 26.78       | 26.77       | 26.60       | 26.86       | 0        |     |
|           |          |       |            | 1       | 76        | 26.72                    | 26.61       | 26.54       | 26.51       | 26.91       | 0        |     |
|           |          |       |            | 36      | 0         | 26.45                    | 26.35       | 26.24       | 26.20       | 26.36       | 0.5      |     |
|           |          |       |            | 36      | 21        | 26.58                    | 26.78       | 26.77       | 26.66       | 26.92       | 0        |     |
|           |          |       |            | 36      | 42        | 26.40                    | 26.24       | 26.23       | 26.12       | 26.41       | 0.5      |     |
|           |          |       |            | 75      | 0         | 26.42                    | 26.31       | 26.23       | 26.17       | 26.46       | 0.5      |     |
|           |          |       | QPSK       | 1       | 1         | 26.86                    | 26.72       | 26.56       | 26.50       | 26.62       | 0        |     |
|           |          |       |            | 1       | 39        | 26.87                    | 26.76       | 26.74       | 26.58       | 26.87       | 0        |     |
|           |          |       |            | 1       | 76        | 26.72                    | 26.55       | 26.56       | 26.48       | 26.97       | 0        |     |
|           |          |       |            | 36      | 0         | 25.95                    | 25.85       | 25.75       | 25.72       | 25.90       | 1        |     |
|           |          |       |            | 36      | 21        | 26.85                    | 26.76       | 26.71       | 26.64       | 26.91       | 0        |     |
|           |          |       |            | 36      | 42        | 25.92                    | 25.75       | 25.72       | 25.68       | 25.87       | 1        |     |
|           |          |       |            | 75      | 0         | 25.96                    | 25.83       | 25.74       | 25.70       | 25.81       | 1        |     |
|           |          |       | 16QAM      | 1       | 1         | 25.85                    | 25.99       | 25.83       | 25.63       | 25.96       | 1        |     |
|           |          |       | CP         | QPSK    | 1         | 1                        | 25.46       | 25.32       | 25.08       | 25.03       | 25.32    | 1.5 |

NR Band n41 \_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204                   | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz              | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.89                    | 26.77       | 26.53       | 26.45       | 26.50       | 0        |
|           |          |       |            | 1       | 26        | 26.90                    | 26.71       | 26.71       | 26.64       | 26.83       | 0        |
|           |          |       |            | 1       | 49        | 26.76                    | 26.57       | 26.46       | 26.47       | 26.93       | 0        |
|           |          |       |            | 25      | 0         | 26.44                    | 26.34       | 26.20       | 26.20       | 26.24       | 0.5      |
|           |          |       |            | 25      | 13        | 26.94                    | 26.75       | 26.69       | 26.65       | 26.87       | 0        |
|           |          |       |            | 25      | 26        | 26.43                    | 26.21       | 26.16       | 26.10       | 26.47       | 0.5      |
|           |          |       |            | 50      | 0         | 26.43                    | 26.29       | 26.21       | 26.18       | 26.39       | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 26.88                    | 26.69       | 26.55       | 26.43       | 26.55       | 0        |
|           |          |       |            | 1       | 26        | 26.89                    | 26.70       | 26.65       | 26.59       | 26.80       | 0        |
|           |          |       |            | 1       | 49        | 26.74                    | 26.53       | 26.42       | 26.42       | 26.93       | 0        |
|           |          |       |            | 25      | 0         | 25.98                    | 25.86       | 25.71       | 25.70       | 25.78       | 1        |
|           |          |       |            | 25      | 13        | 26.96                    | 26.77       | 26.69       | 26.63       | 26.85       | 0        |
|           |          |       |            | 25      | 26        | 25.96                    | 25.72       | 25.69       | 25.62       | 25.93       | 1        |
|           |          |       |            | 50      | 0         | 25.96                    | 25.82       | 25.73       | 25.71       | 25.94       | 1        |
| 16QAM     | 1        | 1     | 25.91      | 25.77   | 25.46     | 25.67                    | 25.73       | 1           |             |             |          |
| CP        | QPSK     | 1     | 1          | 25.41   | 25.27     | 25.05                    | 25.10       | 25.21       | 1.5         |             |          |

NR Band n41 \_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200                   | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz                 | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.71                    | 26.34       | 26.39       | 26.30       | 26.20    | 0        |
|           |          |       |            | 1       | 39        | 26.91                    | 26.67       | 26.84       | 26.48       | 26.74    | 0        |
|           |          |       |            | 1       | 76        | 26.61                    | 26.45       | 26.25       | 26.28       | 26.78    | 0        |
|           |          |       |            | 36      | 0         | 26.37                    | 26.05       | 26.25       | 26.01       | 26.04    | 0.5      |
|           |          |       |            | 36      | 21        | 26.95                    | 26.63       | 26.89       | 26.51       | 26.68    | 0        |
|           |          |       |            | 36      | 42        | 26.43                    | 26.16       | 26.16       | 25.95       | 26.32    | 0.5      |
|           |          |       |            | 75      | 0         | 26.36                    | 26.12       | 26.27       | 26.03       | 26.19    | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 26.68                    | 26.31       | 26.35       | 26.27       | 26.20    | 0        |
|           |          |       |            | 1       | 39        | 26.84                    | 26.63       | 26.91       | 26.40       | 26.64    | 0        |
|           |          |       |            | 1       | 76        | 26.62                    | 26.37       | 26.18       | 26.28       | 26.73    | 0        |
|           |          |       |            | 36      | 0         | 25.90                    | 25.59       | 25.79       | 25.52       | 25.58    | 1        |
|           |          |       |            | 36      | 21        | 26.95                    | 26.63       | 26.93       | 26.53       | 26.70    | 0        |
|           |          |       |            | 36      | 42        | 25.92                    | 25.68       | 25.68       | 25.50       | 25.87    | 1        |
|           |          |       |            | 75      | 0         | 25.92                    | 25.64       | 25.80       | 25.50       | 25.72    | 1        |
| 16QAM     | 1        | 1     | 25.87      | 25.30   | 25.65     | 25.53                    | 25.48       | 1           |             |          |          |
| CP        | QPSK     | 1     | 1          | 25.27   | 24.87     | 24.86                    | 24.71       | 24.79       | 1.5         |          |          |

NR Band n41 \_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |             |       |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------------|-------|-------------|----------|----------|
|           |          |       |            |         |           | 503202                   | 513468      |       | 523734      | 534000   |          |
|           |          |       |            |         |           | 2516.01 MHz              | 2567.34 MHz |       | 2618.67 MHz | 2670 MHz |          |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.52                    | 26.13       |       | 26.29       | 26.03    | 0        |
|           |          |       |            | 1       | 53        | 26.94                    | 26.66       |       | 26.52       | 26.67    | 0        |
|           |          |       |            | 1       | 104       | 26.37                    | 26.33       |       | 26.07       | 26.55    | 0        |
|           |          |       |            | 50      | 0         | 26.26                    | 26.02       |       | 26.00       | 25.98    | 0.5      |
|           |          |       |            | 50      | 28        | 26.92                    | 26.61       |       | 26.49       | 26.63    | 0        |
|           |          |       |            | 50      | 56        | 26.30                    | 26.15       |       | 25.82       | 26.25    | 0.5      |
|           |          |       |            | 100     | 0         | 26.35                    | 26.12       |       | 25.97       | 26.12    | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 26.48                    | 26.04       |       | 26.26       | 26.01    | 0        |
|           |          |       |            | 1       | 53        | 26.91                    | 26.60       |       | 26.47       | 26.61    | 0        |
|           |          |       |            | 1       | 104       | 26.37                    | 26.25       |       | 26.04       | 26.55    | 0        |
|           |          |       |            | 50      | 0         | 25.79                    | 25.53       |       | 25.53       | 25.52    | 1        |
|           |          |       |            | 50      | 28        | 26.91                    | 26.62       |       | 26.48       | 26.60    | 0        |
|           |          |       |            | 50      | 56        | 25.85                    | 25.68       |       | 25.38       | 25.79    | 1        |
|           |          |       |            | 100     | 0         | 25.85                    | 25.63       |       | 25.50       | 25.68    | 1        |
|           |          | 16QAM | 1          | 1       | 25.66     | 25.12                    |             | 25.39 | 25.28       | 1        |          |
|           |          | CP    | QPSK       | 1       | 1         | 25.04                    | 24.68       |       | 24.84       | 24.73    | 1.5      |

NR Band n41 \_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|-------|-------------|----------|
|           |          |       |            |         |           | 504204                   |       | 518598      |       | 532998      |          |
|           |          |       |            |         |           | 2521.02 MHz              |       | 2592.99 MHz |       | 2664.99 MHz |          |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.73                    |       | 26.32       |       | 26.30       | 0        |
|           |          |       |            | 1       | 67        | 26.91                    |       | 26.97       |       | 26.51       | 0        |
|           |          |       |            | 1       | 131       | 26.44                    |       | 26.17       |       | 26.76       | 0        |
|           |          |       |            | 64      | 0         | 26.30                    |       | 26.18       |       | 26.04       | 0.5      |
|           |          |       |            | 64      | 35        | 26.93                    |       | 26.83       |       | 26.53       | 0        |
|           |          |       |            | 64      | 69        | 26.30                    |       | 26.07       |       | 26.24       | 0.5      |
|           |          |       |            | 128     | 0         | 26.34                    |       | 26.18       |       | 26.14       | 0.5      |
|           |          |       | QPSK       | 1       | 1         | 26.68                    |       | 26.30       |       | 26.24       | 0        |
|           |          |       |            | 1       | 67        | 26.86                    |       | 26.95       |       | 26.47       | 0        |
|           |          |       |            | 1       | 131       | 26.46                    |       | 26.17       |       | 26.74       | 0        |
|           |          |       |            | 64      | 0         | 25.83                    |       | 25.70       |       | 25.61       | 1        |
|           |          |       |            | 64      | 35        | 26.92                    |       | 26.82       |       | 26.53       | 0        |
|           |          |       |            | 64      | 69        | 25.85                    |       | 25.64       |       | 25.80       | 1        |
|           |          |       |            | 128     | 0         | 25.84                    |       | 25.69       |       | 25.72       | 1        |
|           |          | 16QAM | 1          | 1       | 25.96     |                          | 25.55 |             | 25.48 | 1           |          |
|           |          | CP    | QPSK       | 1       | 1         | 25.30                    |       | 24.94       |       | 24.95       | 1.5      |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|-------|----------|-------------|
|           |          |       |            |         |           | 505200                   |       | 518598      |       |          | 531996      |
|           |          |       |            |         |           | 2526 MHz                 |       | 2592.99 MHz |       |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.62                    |       | 26.21       |       | 26.21    | 0           |
|           |          |       |            | 1       | 81        | 26.95                    |       | 26.84       |       | 26.50    | 0           |
|           |          |       |            | 1       | 160       | 26.24                    |       | 26.06       |       | 26.68    | 0           |
|           |          |       |            | 81      | 0         | 26.24                    |       | 26.10       |       | 26.21    | 0.5         |
|           |          |       |            | 81      | 41        | 26.91                    |       | 26.81       |       | 26.53    | 0           |
|           |          |       |            | 81      | 81        | 26.21                    |       | 25.99       |       | 26.21    | 0.5         |
|           |          |       |            | 162     | 0         | 26.25                    |       | 26.06       |       | 26.19    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 26.57                    |       | 26.19       |       | 26.17    | 0           |
|           |          |       |            | 1       | 81        | 26.89                    |       | 26.93       |       | 26.47    | 0           |
|           |          |       |            | 1       | 160       | 26.28                    |       | 26.05       |       | 26.68    | 0           |
|           |          |       |            | 81      | 0         | 25.77                    |       | 25.62       |       | 25.68    | 1           |
|           |          |       |            | 81      | 41        | 26.90                    |       | 26.78       |       | 26.54    | 0           |
|           |          |       |            | 81      | 81        | 25.71                    |       | 25.51       |       | 25.74    | 1           |
|           |          |       |            | 162     | 0         | 25.73                    |       | 25.57       |       | 25.76    | 1           |
|           |          | 16QAM | 1          | 1       | 25.80     |                          | 25.41 |             | 25.38 | 1        |             |
| CP        | QPSK     | 1     | 1          | 25.18   |           | 24.82                    |       | 24.82       | 1.5   |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |  |       |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|-------|-------|----------|-------------|
|           |          |       |            |         |           | 507204                   |  |       |       |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz              |  |       |       |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.49                    |  |       |       | 26.07    | 0           |
|           |          |       |            | 1       | 109       | 26.92                    |  |       |       | 26.58    | 0           |
|           |          |       |            | 1       | 215       | 26.14                    |  |       |       | 26.56    | 0           |
|           |          |       |            | 108     | 0         | 26.35                    |  |       |       | 26.16    | 0.5         |
|           |          |       |            | 108     | 55        | 26.87                    |  |       |       | 26.62    | 0           |
|           |          |       |            | 108     | 109       | 26.14                    |  |       |       | 26.16    | 0.5         |
|           |          |       |            | 216     | 0         | 26.23                    |  |       |       | 26.10    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 26.45                    |  |       |       | 25.95    | 0           |
|           |          |       |            | 1       | 109       | 26.92                    |  |       |       | 26.48    | 0           |
|           |          |       |            | 1       | 215       | 26.10                    |  |       |       | 26.48    | 0           |
|           |          |       |            | 108     | 0         | 25.87                    |  |       |       | 25.70    | 1           |
|           |          |       |            | 108     | 55        | 26.87                    |  |       |       | 26.62    | 0           |
|           |          |       |            | 108     | 109       | 25.64                    |  |       |       | 25.71    | 1           |
|           |          |       |            | 216     | 0         | 25.75                    |  |       |       | 25.66    | 1           |
|           |          | 16QAM | 1          | 1       | 25.77     |                          |  |       | 24.93 | 1        |             |
| CP        | QPSK     | 1     | 1          | 25.02   |           |                          |  | 24.65 | 1.5   |          |             |



NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |  |  |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|--------------------------|--|--|-------|----------|-------------|
|           |          |       |            |         |           | 508200                   |  |  |       |          | 528996      |
|           |          |       |            |         |           | 2541 MHz                 |  |  |       |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 26.34                    |  |  |       | 26.12    | 0           |
|           |          |       |            | 1       | 123       | 26.81                    |  |  |       | 26.50    | 0           |
|           |          |       |            | 1       | 243       | 26.21                    |  |  |       | 26.43    | 0           |
|           |          |       |            | 120     | 0         | 26.25                    |  |  |       | 26.05    | 0.5         |
|           |          |       |            | 120     | 63        | 26.78                    |  |  |       | 26.54    | 0           |
|           |          |       |            | 120     | 125       | 26.09                    |  |  |       | 26.09    | 0.5         |
|           |          |       |            | 243     | 0         | 26.19                    |  |  |       | 26.09    | 0.5         |
|           |          |       | QPSK       | 1       | 1         | 26.24                    |  |  |       | 26.09    | 0           |
|           |          |       |            | 1       | 123       | 26.73                    |  |  |       | 26.49    | 0           |
|           |          |       |            | 1       | 243       | 26.13                    |  |  |       | 26.43    | 0           |
|           |          |       |            | 120     | 0         | 25.73                    |  |  |       | 25.64    | 1           |
|           |          |       |            | 120     | 63        | 26.79                    |  |  |       | 26.55    | 0           |
|           |          |       |            | 120     | 125       | 25.59                    |  |  |       | 25.60    | 1           |
|           |          |       |            | 243     | 0         | 25.68                    |  |  |       | 25.60    | 1           |
|           |          | 16QAM | 1          | 1       | 25.48     |                          |  |  | 25.32 | 1        |             |
|           |          | CP    | QPSK       | 1       | 1         | 24.88                    |  |  |       | 24.60    | 1.5         |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max. Average Power (dBm) |       |             |  | MPR [dB] |     |
|-----------|----------|-------|------------|---------|-----------|--------------------------|-------|-------------|--|----------|-----|
|           |          |       |            |         |           |                          |       | 518598      |  |          |     |
|           |          |       |            |         |           |                          |       | 2592.99 MHz |  |          |     |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                          |       | 25.91       |  |          | 0   |
|           |          |       |            | 1       | 137       |                          |       | 26.31       |  |          | 0   |
|           |          |       |            | 1       | 271       |                          |       | 25.77       |  |          | 0   |
|           |          |       |            | 135     | 0         |                          |       | 25.99       |  |          | 0.5 |
|           |          |       |            | 135     | 67        |                          |       | 26.67       |  |          | 0   |
|           |          |       |            | 135     | 138       |                          |       | 25.86       |  |          | 0.5 |
|           |          |       |            | 270     | 0         |                          |       | 25.93       |  |          | 0.5 |
|           |          |       | QPSK       | 1       | 1         |                          |       | 25.83       |  |          | 0   |
|           |          |       |            | 1       | 137       |                          |       | 26.97       |  |          | 0   |
|           |          |       |            | 1       | 271       |                          |       | 25.77       |  |          | 0   |
|           |          |       |            | 135     | 0         |                          |       | 25.51       |  |          | 1   |
|           |          |       |            | 135     | 67        |                          |       | 26.67       |  |          | 0   |
|           |          |       |            | 135     | 138       |                          |       | 25.36       |  |          | 1   |
|           |          |       |            | 270     | 0         |                          |       | 25.45       |  |          | 1   |
|           |          | 16QAM | 1          | 1       |           |                          | 25.03 |             |  | 1        |     |
|           |          | CP    | QPSK       | 1       | 1         |                          |       | 24.38       |  |          | 1.5 |

[ NR Band n41 Reduced Conducted Power \_ Hotspot activated] \_ Power Class 2 \_ SUBAnt.#2

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |          |             |             |          | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------|-------------|-------------|----------|----------|---|
|           |          |       |            |         |           | 500202              | 509400   | 518598      | 527802      | 53700    |          |   |
|           |          |       |            |         |           | 2501.01 MHz         | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |   |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.21               | 23.90    | 23.75       | 23.64       | 24.09    | 0        |   |
|           |          |       |            | 1       | 12        | 24.28               | 23.89    | 23.96       | 23.90       | 24.31    | 0        |   |
|           |          |       |            | 1       | 22        | 23.98               | 23.72    | 23.69       | 23.73       | 24.25    | 0        |   |
|           |          |       |            | 12      | 0         | 24.22               | 23.89    | 23.86       | 23.91       | 24.19    | 0        |   |
|           |          |       |            | 12      | 6         | 24.14               | 23.86    | 23.76       | 23.81       | 24.32    | 0        |   |
|           |          |       |            | 12      | 12        | 24.14               | 23.87    | 23.75       | 23.76       | 24.35    | 0        |   |
|           |          |       | QPSK       | 24      | 0         | 24.17               | 23.93    | 23.90       | 23.86       | 24.21    | 0        |   |
|           |          |       |            | 1       | 1         | 24.03               | 23.80    | 23.72       | 23.61       | 23.94    | 0        |   |
|           |          |       |            | 1       | 12        | 24.17               | 23.81    | 23.80       | 23.73       | 24.32    | 0        |   |
|           |          |       |            | 1       | 22        | 24.03               | 23.76    | 23.63       | 23.64       | 24.19    | 0        |   |
|           |          |       |            | 12      | 0         | 24.11               | 23.80    | 23.83       | 23.86       | 24.23    | 0        |   |
|           |          |       |            | 12      | 6         | 24.20               | 23.85    | 23.84       | 23.81       | 24.26    | 0        |   |
|           |          |       | 16QAM      | 12      | 12        | 24.07               | 23.79    | 23.83       | 23.73       | 24.40    | 0        |   |
|           |          |       |            | 24      | 0         | 24.09               | 23.79    | 23.73       | 23.79       | 24.19    | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                   | 24.10    | 24.10       | 23.87       | 23.89    | 24.29    | 0 |
|           |          |       | CP         | QPSK    | 1         | 1                   | 24.16    | 23.71       | 23.71       | 23.76    | 24.06    | 0 |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |             |             |             | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|----------|---|
|           |          |       |            |         |           | 500700              | 509664      | 518598      | 527562      | 536496      |          |   |
|           |          |       |            |         |           | 2503.5 MHz          | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |   |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.19               | 23.90       | 23.64       | 23.56       | 23.96       | 0        |   |
|           |          |       |            | 1       | 39        | 24.16               | 23.81       | 23.76       | 23.84       | 24.05       | 0        |   |
|           |          |       |            | 1       | 76        | 23.88               | 23.75       | 23.51       | 23.72       | 24.24       | 0        |   |
|           |          |       |            | 36      | 0         | 24.21               | 23.87       | 23.76       | 23.71       | 24.12       | 0        |   |
|           |          |       |            | 36      | 21        | 24.18               | 23.93       | 23.75       | 23.76       | 24.16       | 0        |   |
|           |          |       |            | 36      | 42        | 24.05               | 23.82       | 23.72       | 23.80       | 24.23       | 0        |   |
|           |          |       | QPSK       | 75      | 0         | 24.15               | 23.87       | 23.81       | 23.79       | 24.18       | 0        |   |
|           |          |       |            | 1       | 1         | 24.02               | 23.89       | 23.59       | 23.63       | 23.96       | 0        |   |
|           |          |       |            | 1       | 39        | 23.95               | 23.86       | 23.84       | 23.70       | 24.08       | 0        |   |
|           |          |       |            | 1       | 76        | 23.78               | 23.66       | 23.49       | 23.75       | 24.15       | 0        |   |
|           |          |       |            | 36      | 0         | 24.05               | 23.85       | 23.74       | 23.71       | 24.12       | 0        |   |
|           |          |       |            | 36      | 21        | 24.14               | 23.78       | 23.82       | 23.86       | 24.07       | 0        |   |
|           |          |       | 16QAM      | 36      | 42        | 24.10               | 23.83       | 23.69       | 23.70       | 24.18       | 0        |   |
|           |          |       |            | 75      | 0         | 24.04               | 23.87       | 23.79       | 23.74       | 24.07       | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                   | 24.18       | 23.91       | 23.70       | 23.99       | 24.08    | 0 |
|           |          |       | CP         | QPSK    | 1         | 1                   | 24.05       | 23.79       | 23.67       | 23.70       | 24.01    | 0 |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204              | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz         | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.14               | 23.82       | 23.57       | 23.79       | 23.83       | 0        |
|           |          |       |            | 1       | 26        | 24.17               | 23.80       | 23.81       | 23.74       | 24.04       | 0        |
|           |          |       |            | 1       | 49        | 23.96               | 23.65       | 23.48       | 23.70       | 24.19       | 0        |
|           |          |       |            | 25      | 0         | 24.12               | 23.84       | 23.72       | 23.76       | 23.91       | 0        |
|           |          |       |            | 25      | 13        | 24.19               | 23.84       | 23.72       | 23.89       | 24.14       | 0        |
|           |          |       |            | 25      | 26        | 24.03               | 23.81       | 23.79       | 23.74       | 24.23       | 0        |
|           |          |       |            | 50      | 0         | 24.05               | 23.82       | 23.82       | 23.76       | 24.12       | 0        |
|           |          |       | QPSK       | 1       | 1         | 24.14               | 23.81       | 23.47       | 23.57       | 23.69       | 0        |
|           |          |       |            | 1       | 26        | 24.03               | 23.75       | 23.63       | 23.75       | 24.05       | 0        |
|           |          |       |            | 1       | 49        | 23.94               | 23.63       | 23.48       | 23.73       | 24.15       | 0        |
|           |          |       |            | 25      | 0         | 24.10               | 23.90       | 23.70       | 23.76       | 24.00       | 0        |
|           |          |       |            | 25      | 13        | 24.05               | 23.82       | 23.71       | 23.76       | 24.09       | 0        |
|           |          |       |            | 25      | 26        | 24.01               | 23.79       | 23.74       | 23.65       | 24.23       | 0        |
|           |          |       |            | 50      | 0         | 24.16               | 23.90       | 23.77       | 23.75       | 24.08       | 0        |
| 16QAM     | 1        | 1     | 24.36      | 24.01   | 23.54     | 23.68               | 23.93       | 0           |             |             |          |
| CP        | QPSK     | 1     | 1          | 23.99   | 23.66     | 23.53               | 23.48       | 23.68       | 0           |             |          |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200              | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz            | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.91               | 23.41       | 23.38       | 23.33       | 23.48    | 0        |
|           |          |       |            | 1       | 39        | 23.92               | 23.81       | 24.14       | 23.59       | 24.08    | 0        |
|           |          |       |            | 1       | 76        | 23.65               | 23.52       | 23.21       | 23.42       | 23.92    | 0        |
|           |          |       |            | 36      | 0         | 23.89               | 23.66       | 23.85       | 23.49       | 23.72    | 0        |
|           |          |       |            | 36      | 21        | 24.07               | 23.76       | 23.96       | 23.64       | 23.93    | 0        |
|           |          |       |            | 36      | 42        | 24.02               | 23.71       | 23.79       | 23.55       | 23.96    | 0        |
|           |          |       |            | 75      | 0         | 23.97               | 23.71       | 23.91       | 23.61       | 23.86    | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.79               | 23.21       | 23.42       | 23.34       | 23.44    | 0        |
|           |          |       |            | 1       | 39        | 23.91               | 23.71       | 24.01       | 23.43       | 23.99    | 0        |
|           |          |       |            | 1       | 76        | 23.66               | 23.39       | 23.17       | 23.43       | 23.89    | 0        |
|           |          |       |            | 36      | 0         | 23.96               | 23.64       | 23.90       | 23.53       | 23.78    | 0        |
|           |          |       |            | 36      | 21        | 24.09               | 23.80       | 23.91       | 23.60       | 24.01    | 0        |
|           |          |       |            | 36      | 42        | 23.95               | 23.68       | 23.74       | 23.47       | 24.01    | 0        |
|           |          |       |            | 75      | 0         | 23.88               | 23.63       | 23.88       | 23.54       | 23.90    | 0        |
|           |          |       |            | 16QAM   | 1         | 1                   | 24.10       | 23.54       | 23.51       | 23.68    | 23.62    |
|           |          |       | CP         | QPSK    | 1         | 1                   | 23.93       | 23.54       | 23.39       | 23.48    | 23.49    |

NR Band n41 \_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |       |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------|-------------|----------|----------|
|           |          |       |            |         |           | 503202              | 513468      |       | 523734      | 534000   |          |
|           |          |       |            |         |           | 2516.01 MHz         | 2567.34 MHz |       | 2618.67 MHz | 2670 MHz |          |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.70               | 23.15       |       | 23.33       | 23.22    | 0        |
|           |          |       |            | 1       | 53        | 24.03               | 23.78       |       | 23.55       | 24.06    | 0        |
|           |          |       |            | 1       | 104       | 23.55               | 23.44       |       | 23.10       | 23.70    | 0        |
|           |          |       |            | 50      | 0         | 23.79               | 23.61       |       | 23.62       | 23.78    | 0        |
|           |          |       |            | 50      | 28        | 24.02               | 23.74       |       | 23.54       | 23.96    | 0        |
|           |          |       |            | 50      | 56        | 23.84               | 23.75       |       | 23.39       | 23.99    | 0        |
|           |          |       |            | 100     | 0         | 23.90               | 23.71       |       | 23.50       | 23.89    | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.42               | 23.19       |       | 23.37       | 23.25    | 0        |
|           |          |       |            | 1       | 53        | 24.00               | 23.80       |       | 23.49       | 23.96    | 0        |
|           |          |       |            | 1       | 104       | 23.28               | 23.31       |       | 23.10       | 23.73    | 0        |
|           |          |       |            | 50      | 0         | 23.82               | 23.60       |       | 23.47       | 23.64    | 0        |
|           |          |       |            | 50      | 28        | 24.04               | 23.71       |       | 23.61       | 23.81    | 0        |
|           |          |       |            | 50      | 56        | 23.94               | 23.71       |       | 23.42       | 23.94    | 0        |
|           |          |       | 100        | 0       | 23.80     | 23.63               |             | 23.56 | 23.80       | 0        |          |
|           |          | 16QAM | 1          | 1       | 23.68     | 23.23               |             | 23.43 | 23.32       | 0        |          |
|           |          | CP    | QPSK       | 1       | 1         | 23.56               | 23.24       |       | 23.33       | 23.35    | 0        |

NR Band n41 \_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |       |             |       |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------|-------------|-------|-------------|----------|
|           |          |       |            |         |           | 504204              |       | 518598      |       | 532998      |          |
|           |          |       |            |         |           | 2521.02 MHz         |       | 2592.99 MHz |       | 2664.99 MHz |          |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.91               |       | 23.48       |       | 23.41       | 0        |
|           |          |       |            | 1       | 67        | 24.02               |       | 24.12       |       | 23.77       | 0        |
|           |          |       |            | 1       | 131       | 23.57               |       | 23.28       |       | 24.07       | 0        |
|           |          |       |            | 64      | 0         | 23.96               |       | 23.70       |       | 23.79       | 0        |
|           |          |       |            | 64      | 35        | 23.96               |       | 24.02       |       | 23.88       | 0        |
|           |          |       |            | 64      | 69        | 23.88               |       | 23.60       |       | 23.89       | 0        |
|           |          |       |            | 128     | 0         | 23.84               |       | 23.77       |       | 23.92       | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.78               |       | 23.45       |       | 23.34       | 0        |
|           |          |       |            | 1       | 67        | 23.91               |       | 24.04       |       | 23.64       | 0        |
|           |          |       |            | 1       | 131       | 23.60               |       | 23.18       |       | 23.93       | 0        |
|           |          |       |            | 64      | 0         | 23.83               |       | 23.72       |       | 23.78       | 0        |
|           |          |       |            | 64      | 35        | 24.07               |       | 23.89       |       | 23.76       | 0        |
|           |          |       |            | 64      | 69        | 23.89               |       | 23.68       |       | 23.86       | 0        |
|           |          |       | 128        | 0       | 23.92     |                     | 23.68 |             | 23.95 | 0           |          |
|           |          | 16QAM | 1          | 1       | 23.98     |                     | 23.53 |             | 23.40 | 0           |          |
|           |          | CP    | QPSK       | 1       | 1         | 23.74               |       | 23.34       |       | 23.44       | 0        |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |             |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|-------------|
|           |          |       |            |         |           | 505200              |  | 518598      |   |          | 531996      |
|           |          |       |            |         |           | 2526 MHz            |  | 2592.99 MHz |   |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.66               |  | 23.24       |   | 23.20    | 0           |
|           |          |       |            | 1       | 81        | 24.08               |  | 24.17       |   | 23.85    | 0           |
|           |          |       |            | 1       | 160       | 23.39               |  | 23.10       |   | 23.86    | 0           |
|           |          |       |            | 81      | 0         | 23.89               |  | 23.60       |   | 23.91    | 0           |
|           |          |       |            | 81      | 41        | 24.03               |  | 23.95       |   | 23.84    | 0           |
|           |          |       |            | 81      | 81        | 23.71               |  | 23.57       |   | 23.95    | 0           |
|           |          |       |            | 162     | 0         | 23.88               |  | 23.60       |   | 23.93    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.61               |  | 23.24       |   | 23.27    | 0           |
|           |          |       |            | 1       | 81        | 23.98               |  | 24.07       |   | 23.76    | 0           |
|           |          |       |            | 1       | 160       | 23.25               |  | 23.04       |   | 23.81    | 0           |
|           |          |       |            | 81      | 0         | 23.74               |  | 23.68       |   | 23.76    | 0           |
|           |          |       |            | 81      | 41        | 24.01               |  | 23.96       |   | 23.86    | 0           |
|           |          |       |            | 81      | 81        | 23.67               |  | 23.46       |   | 23.93    | 0           |
|           |          |       |            | 162     | 0         | 23.75               |  | 23.54       |   | 23.93    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.98               |  | 23.38       |   | 23.46    | 0           |
| CP        | QPSK     | 1     | 1          | 23.70   |           | 23.23               |  | 23.28       | 0 |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |       |  |  | MPR [dB] |             |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------|--|--|----------|-------------|---|
|           |          |       |            |         |           | 507204              |       |  |  |          | 529998      |   |
|           |          |       |            |         |           | 2536.02 MHz         |       |  |  |          | 2649.99 MHz |   |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.62               |       |  |  | 23.15    | 0           |   |
|           |          |       |            | 1       | 109       | 24.05               |       |  |  | 23.78    | 0           |   |
|           |          |       |            | 1       | 215       | 23.22               |       |  |  | 23.73    | 0           |   |
|           |          |       |            | 108     | 0         | 23.96               |       |  |  | 23.76    | 0           |   |
|           |          |       |            | 108     | 55        | 23.95               |       |  |  | 23.79    | 0           |   |
|           |          |       |            | 108     | 109       | 23.71               |       |  |  | 23.88    | 0           |   |
|           |          |       |            | 216     | 0         | 23.78               |       |  |  | 23.77    | 0           |   |
|           |          |       | QPSK       | 1       | 1         | 23.58               |       |  |  | 23.01    | 0           |   |
|           |          |       |            | 1       | 109       | 23.96               |       |  |  | 23.72    | 0           |   |
|           |          |       |            | 1       | 215       | 23.20               |       |  |  | 23.77    | 0           |   |
|           |          |       |            | 108     | 0         | 24.00               |       |  |  | 23.68    | 0           |   |
|           |          |       |            | 108     | 55        | 23.86               |       |  |  | 23.79    | 0           |   |
|           |          |       |            | 108     | 109       | 23.74               |       |  |  | 23.88    | 0           |   |
|           |          |       |            | 216     | 0         | 23.84               |       |  |  | 23.79    | 0           |   |
|           |          |       | 16QAM      | 1       | 1         | 23.65               |       |  |  | 23.26    | 0           |   |
|           |          |       | CP         | QPSK    | 1         | 1                   | 23.55 |  |  |          | 23.06       | 0 |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 508200              |  |       |   |          | 528996      |
|           |          |       |            |         |           | 2541 MHz            |  |       |   |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.39               |  |       |   | 23.10    | 0           |
|           |          |       |            | 1       | 123       | 23.93               |  |       |   | 23.74    | 0           |
|           |          |       |            | 1       | 243       | 23.29               |  |       |   | 23.66    | 0           |
|           |          |       |            | 120     | 0         | 23.78               |  |       |   | 23.61    | 0           |
|           |          |       |            | 120     | 63        | 23.97               |  |       |   | 23.62    | 0           |
|           |          |       |            | 120     | 125       | 23.61               |  |       |   | 23.79    | 0           |
|           |          |       |            | 243     | 0         | 23.76               |  |       |   | 23.76    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.42               |  |       |   | 22.95    | 0           |
|           |          |       |            | 1       | 123       | 23.88               |  |       |   | 23.69    | 0           |
|           |          |       |            | 1       | 243       | 23.23               |  |       |   | 23.48    | 0           |
|           |          |       |            | 120     | 0         | 23.88               |  |       |   | 23.59    | 0           |
|           |          |       |            | 120     | 63        | 23.92               |  |       |   | 23.70    | 0           |
|           |          |       |            | 120     | 125       | 23.66               |  |       |   | 23.80    | 0           |
|           |          |       |            | 243     | 0         | 23.70               |  |       |   | 23.69    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.59               |  |       |   | 23.18    | 0           |
| CP        | QPSK     | 1     | 1          | 23.37   |           |                     |  | 23.14 | 0 |          |             |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |             |   | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|---|
|           |          |       |            |         |           |                     |  | 518598      |   |          |   |
|           |          |       |            |         |           |                     |  | 2592.99 MHz |   |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                     |  | 22.84       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 24.17       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 22.90       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 23.53       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 23.79       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 23.34       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 23.51       |   |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                     |  | 22.87       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 24.00       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 22.93       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 23.50       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 23.73       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 23.34       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 23.45       |   |          | 0 |
|           |          |       | 16QAM      | 1       | 1         |                     |  | 23.10       |   |          | 0 |
| CP        | QPSK     | 1     | 1          |         |           | 22.92               |  |             | 0 |          |   |

[ NR Band n41 Reduced Conducted Power –Grip Sensor On ] \_ Power Class 2 \_ SUBAnt.#2

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |          |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 500202              | 509400   | 518598      | 527802      | 53700    |          |
|           |          |       |            |         |           | 2501.01 MHz         | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.17               | 23.80    | 23.76       | 23.73       | 24.02    | 0        |
|           |          |       |            | 1       | 12        | 24.16               | 23.93    | 23.82       | 23.91       | 24.36    | 0        |
|           |          |       |            | 1       | 22        | 23.97               | 23.75    | 23.77       | 23.77       | 24.32    | 0        |
|           |          |       |            | 12      | 0         | 24.22               | 23.87    | 23.75       | 23.85       | 24.22    | 0        |
|           |          |       |            | 12      | 6         | 24.14               | 23.88    | 23.82       | 23.79       | 24.33    | 0        |
|           |          |       |            | 12      | 12        | 24.11               | 23.81    | 23.88       | 23.78       | 24.29    | 0        |
|           |          |       | 24         | 0       | 24.20     | 23.94               | 23.76    | 23.80       | 24.31       | 0        |          |
|           |          |       | QPSK       | 1       | 1         | 24.06               | 23.87    | 23.78       | 23.63       | 24.01    | 0        |
|           |          |       |            | 1       | 12        | 24.08               | 23.86    | 23.71       | 23.77       | 24.27    | 0        |
|           |          |       |            | 1       | 22        | 23.99               | 23.66    | 23.67       | 23.67       | 24.26    | 0        |
|           |          |       |            | 12      | 0         | 24.21               | 23.80    | 23.73       | 23.73       | 24.17    | 0        |
|           |          |       |            | 12      | 6         | 24.19               | 23.83    | 23.79       | 23.76       | 24.28    | 0        |
|           |          |       |            | 12      | 12        | 24.21               | 23.87    | 23.77       | 23.77       | 24.31    | 0        |
|           |          |       | 24         | 0       | 24.13     | 23.92               | 23.80    | 23.80       | 24.19       | 0        |          |
|           |          |       | 16QAM      | 1       | 1         | 24.14               | 24.03    | 24.00       | 23.94       | 24.28    | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 24.10               | 23.76    | 23.63       | 23.76       | 24.09    | 0        |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 500700              | 509664      | 518598      | 527562      | 536496      |          |
|           |          |       |            |         |           | 2503.5 MHz          | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.20               | 23.95       | 23.72       | 23.68       | 23.90       | 0        |
|           |          |       |            | 1       | 39        | 24.09               | 23.92       | 23.89       | 23.83       | 24.07       | 0        |
|           |          |       |            | 1       | 76        | 23.87               | 23.76       | 23.60       | 23.75       | 24.14       | 0        |
|           |          |       |            | 36      | 0         | 24.15               | 23.97       | 23.85       | 23.76       | 24.05       | 0        |
|           |          |       |            | 36      | 21        | 24.07               | 23.87       | 23.79       | 23.89       | 24.19       | 0        |
|           |          |       |            | 36      | 42        | 24.09               | 23.88       | 23.83       | 23.75       | 24.30       | 0        |
|           |          |       | 75         | 0       | 24.10     | 23.83               | 23.79       | 23.77       | 24.10       | 0           |          |
|           |          |       | QPSK       | 1       | 1         | 23.95               | 23.76       | 23.69       | 23.58       | 23.96       | 0        |
|           |          |       |            | 1       | 39        | 23.96               | 23.81       | 23.76       | 23.70       | 24.13       | 0        |
|           |          |       |            | 1       | 76        | 23.76               | 23.65       | 23.53       | 23.76       | 24.08       | 0        |
|           |          |       |            | 36      | 0         | 24.12               | 23.90       | 23.75       | 23.70       | 24.11       | 0        |
|           |          |       |            | 36      | 21        | 24.13               | 23.90       | 23.77       | 23.77       | 24.13       | 0        |
|           |          |       |            | 36      | 42        | 24.10               | 23.80       | 23.81       | 23.80       | 24.21       | 0        |
|           |          |       | 75         | 0       | 24.06     | 23.90               | 23.65       | 23.73       | 24.15       | 0           |          |
|           |          |       | 16QAM      | 1       | 1         | 24.19               | 23.98       | 23.73       | 23.90       | 24.10       | 0        |
|           |          | CP    | QPSK       | 1       | 1         | 24.07               | 23.75       | 23.61       | 23.64       | 23.97       | 0        |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |                |                |                |                | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------------|----------------|----------------|----------------|----------|
|           |          |       |            |         |           | 501204              | 509898         | 518598         | 527298         | 535998         |          |
|           |          |       |            |         |           | 2506.02<br>MHz      | 2549.49<br>MHz | 2592.99<br>MHz | 2636.49<br>MHz | 2679.99<br>MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.07               | 23.81          | 23.63          | 23.86          | 23.83          | 0        |
|           |          |       |            | 1       | 26        | 24.13               | 23.80          | 23.69          | 23.83          | 24.00          | 0        |
|           |          |       |            | 1       | 49        | 23.90               | 23.72          | 23.54          | 23.66          | 24.14          | 0        |
|           |          |       |            | 25      | 0         | 24.21               | 23.90          | 23.77          | 23.81          | 23.93          | 0        |
|           |          |       |            | 25      | 13        | 24.09               | 23.93          | 23.82          | 23.76          | 24.07          | 0        |
|           |          |       |            | 25      | 26        | 24.01               | 23.73          | 23.71          | 23.65          | 24.15          | 0        |
|           |          |       |            | 50      | 0         | 24.03               | 23.83          | 23.76          | 23.71          | 24.03          | 0        |
|           |          |       | QPSK       | 1       | 1         | 24.13               | 23.82          | 23.40          | 23.55          | 23.75          | 0        |
|           |          |       |            | 1       | 26        | 24.08               | 23.77          | 23.69          | 23.74          | 24.07          | 0        |
|           |          |       |            | 1       | 49        | 23.87               | 23.59          | 23.47          | 23.71          | 24.12          | 0        |
|           |          |       |            | 25      | 0         | 24.11               | 23.87          | 23.80          | 23.70          | 23.98          | 0        |
|           |          |       |            | 25      | 13        | 24.07               | 23.79          | 23.83          | 23.79          | 24.09          | 0        |
|           |          |       |            | 25      | 26        | 24.03               | 23.77          | 23.68          | 23.78          | 24.26          | 0        |
|           |          |       | 50         | 0       | 24.13     | 23.91               | 23.71          | 23.84          | 24.13          | 0              |          |
|           |          | 16QAM | 1          | 1       | 24.34     | 23.96               | 23.59          | 23.68          | 23.92          | 0              |          |
|           |          | CP    | QPSK       | 1       | 1         | 24.00               | 23.74          | 23.41          | 23.49          | 23.70          | 0        |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |                |                |                |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|----------------|----------------|----------------|-------------|----------|
|           |          |       |            |         |           | 502200              | 513468         | 518598         | 523734         | 535000      |          |
|           |          |       |            |         |           | 2511<br>MHz         | 2567.34<br>MHz | 2592.99<br>MHz | 2618.67<br>MHz | 2675<br>MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.86               | 23.38          | 23.41          | 23.32          | 23.46       | 0        |
|           |          |       |            | 1       | 39        | 23.91               | 23.83          | 24.10          | 23.59          | 24.00       | 0        |
|           |          |       |            | 1       | 76        | 23.75               | 23.61          | 23.29          | 23.46          | 23.95       | 0        |
|           |          |       |            | 36      | 0         | 24.00               | 23.60          | 23.84          | 23.60          | 23.78       | 0        |
|           |          |       |            | 36      | 21        | 24.02               | 23.69          | 23.94          | 23.58          | 24.02       | 0        |
|           |          |       |            | 36      | 42        | 23.90               | 23.75          | 23.67          | 23.53          | 24.01       | 0        |
|           |          |       |            | 75      | 0         | 23.89               | 23.72          | 23.84          | 23.53          | 23.93       | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.72               | 23.25          | 23.41          | 23.28          | 23.39       | 0        |
|           |          |       |            | 1       | 39        | 23.96               | 23.67          | 23.91          | 23.45          | 23.95       | 0        |
|           |          |       |            | 1       | 76        | 23.67               | 23.37          | 23.14          | 23.34          | 23.99       | 0        |
|           |          |       |            | 36      | 0         | 23.89               | 23.55          | 23.83          | 23.55          | 23.72       | 0        |
|           |          |       |            | 36      | 21        | 24.09               | 23.71          | 24.05          | 23.60          | 24.07       | 0        |
|           |          |       |            | 36      | 42        | 24.01               | 23.77          | 23.66          | 23.55          | 23.99       | 0        |
|           |          |       |            | 75      | 0         | 23.95               | 23.66          | 23.75          | 23.46          | 23.84       | 0        |
|           |          | 16QAM | 1          | 1       | 24.14     | 23.57               | 23.50          | 23.66          | 23.67          | 0           |          |
|           |          | CP    | QPSK       | 1       | 1         | 23.88               | 23.58          | 23.31          | 23.52          | 23.44       | 0        |



NR Band n41 \_40 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |             |       |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------------|-------|-------------|----------|----------|
|           |          |       |            |         |           | 503202              | 513468      |       | 523734      | 534000   |          |
|           |          |       |            |         |           | 2516.01 MHz         | 2567.34 MHz |       | 2618.67 MHz | 2670 MHz |          |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.61               | 23.24       |       | 23.37       | 23.24    | 0        |
|           |          |       |            | 1       | 53        | 24.12               | 23.78       |       | 23.55       | 23.94    | 0        |
|           |          |       |            | 1       | 104       | 23.52               | 23.47       |       | 23.20       | 23.70    | 0        |
|           |          |       |            | 50      | 0         | 23.85               | 23.59       |       | 23.57       | 23.67    | 0        |
|           |          |       |            | 50      | 28        | 23.95               | 23.79       |       | 23.56       | 23.95    | 0        |
|           |          |       |            | 50      | 56        | 23.87               | 23.76       |       | 23.34       | 23.90    | 0        |
|           |          |       |            | 100     | 0         | 23.98               | 23.75       |       | 23.59       | 23.89    | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.44               | 23.14       |       | 23.25       | 23.28    | 0        |
|           |          |       |            | 1       | 53        | 23.95               | 23.71       |       | 23.55       | 24.00    | 0        |
|           |          |       |            | 1       | 104       | 23.33               | 23.34       |       | 23.22       | 23.81    | 0        |
|           |          |       |            | 50      | 0         | 23.81               | 23.55       |       | 23.56       | 23.74    | 0        |
|           |          |       |            | 50      | 28        | 24.07               | 23.78       |       | 23.53       | 23.81    | 0        |
|           |          |       |            | 50      | 56        | 23.87               | 23.63       |       | 23.42       | 23.88    | 0        |
|           |          |       |            | 100     | 0         | 23.91               | 23.74       |       | 23.52       | 23.80    | 0        |
|           |          |       | 16QAM      | 1       | 1         | 23.60               | 23.34       |       | 23.45       | 23.39    | 0        |
|           |          |       | CP         | QPSK    | 1         | 1                   | 23.61       | 23.27 |             | 23.28    | 23.32    |

NR Band n41 \_50 Mhz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |       |             |       |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------|-------|-------------|-------|-------------|----------|
|           |          |       |            |         |           | 504204              |       | 518598      |       | 532998      |          |
|           |          |       |            |         |           | 2521.02 MHz         |       | 2592.99 MHz |       | 2664.99 MHz |          |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.79               |       | 23.50       |       | 23.50       | 0        |
|           |          |       |            | 1       | 67        | 24.00               |       | 24.08       |       | 23.78       | 0        |
|           |          |       |            | 1       | 131       | 23.51               |       | 23.23       |       | 23.92       | 0        |
|           |          |       |            | 64      | 0         | 23.91               |       | 23.81       |       | 23.70       | 0        |
|           |          |       |            | 64      | 35        | 23.95               |       | 24.01       |       | 23.76       | 0        |
|           |          |       |            | 64      | 69        | 23.82               |       | 23.67       |       | 24.03       | 0        |
|           |          |       |            | 128     | 0         | 23.93               |       | 23.69       |       | 23.94       | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.83               |       | 23.48       |       | 23.30       | 0        |
|           |          |       |            | 1       | 67        | 23.94               |       | 24.00       |       | 23.70       | 0        |
|           |          |       |            | 1       | 131       | 23.59               |       | 23.18       |       | 23.89       | 0        |
|           |          |       |            | 64      | 0         | 23.88               |       | 23.73       |       | 23.83       | 0        |
|           |          |       |            | 64      | 35        | 24.02               |       | 23.82       |       | 23.78       | 0        |
|           |          |       |            | 64      | 69        | 23.86               |       | 23.66       |       | 23.96       | 0        |
|           |          |       |            | 128     | 0         | 23.85               |       | 23.73       |       | 23.91       | 0        |
|           |          |       | 16QAM      | 1       | 1         | 24.06               |       | 23.59       |       | 23.45       | 0        |
|           |          |       | CP         | QPSK    | 1         | 1                   | 23.76 |             | 23.42 |             | 23.43    |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |             |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|-------------|
|           |          |       |            |         |           | 505200              |  | 518598      |   |          | 531996      |
|           |          |       |            |         |           | 2526 MHz            |  | 2592.99 MHz |   |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.77               |  | 23.26       |   | 23.29    | 0           |
|           |          |       |            | 1       | 81        | 24.14               |  | 24.11       |   | 23.76    | 0           |
|           |          |       |            | 1       | 160       | 23.42               |  | 23.20       |   | 23.91    | 0           |
|           |          |       |            | 81      | 0         | 23.81               |  | 23.62       |   | 23.86    | 0           |
|           |          |       |            | 81      | 41        | 23.99               |  | 23.94       |   | 23.91    | 0           |
|           |          |       |            | 81      | 81        | 23.69               |  | 23.57       |   | 23.89    | 0           |
|           |          |       |            | 162     | 0         | 23.84               |  | 23.67       |   | 23.86    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.60               |  | 23.29       |   | 23.36    | 0           |
|           |          |       |            | 1       | 81        | 24.05               |  | 24.07       |   | 23.81    | 0           |
|           |          |       |            | 1       | 160       | 23.28               |  | 23.13       |   | 23.79    | 0           |
|           |          |       |            | 81      | 0         | 23.76               |  | 23.61       |   | 23.89    | 0           |
|           |          |       |            | 81      | 41        | 23.89               |  | 23.84       |   | 23.80    | 0           |
|           |          |       |            | 81      | 81        | 23.80               |  | 23.51       |   | 23.87    | 0           |
|           |          |       |            | 162     | 0         | 23.83               |  | 23.60       |   | 23.90    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.89               |  | 23.41       |   | 23.43    | 0           |
| CP        | QPSK     | 1     | 1          | 23.58   |           | 23.30               |  | 23.29       | 0 |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 507204              |  |       |   |          | 529998      |
|           |          |       |            |         |           | 2536.02 MHz         |  |       |   |          | 2649.99 MHz |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.51               |  |       |   | 23.00    | 0           |
|           |          |       |            | 1       | 109       | 24.08               |  |       |   | 23.72    | 0           |
|           |          |       |            | 1       | 215       | 23.17               |  |       |   | 23.73    | 0           |
|           |          |       |            | 108     | 0         | 23.93               |  |       |   | 23.68    | 0           |
|           |          |       |            | 108     | 55        | 23.97               |  |       |   | 23.89    | 0           |
|           |          |       |            | 108     | 109       | 23.71               |  |       |   | 23.96    | 0           |
|           |          |       |            | 216     | 0         | 23.87               |  |       |   | 23.81    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.54               |  |       |   | 23.07    | 0           |
|           |          |       |            | 1       | 109       | 23.99               |  |       |   | 23.86    | 0           |
|           |          |       |            | 1       | 215       | 23.16               |  |       |   | 23.75    | 0           |
|           |          |       |            | 108     | 0         | 23.98               |  |       |   | 23.67    | 0           |
|           |          |       |            | 108     | 55        | 23.99               |  |       |   | 23.84    | 0           |
|           |          |       |            | 108     | 109       | 23.67               |  |       |   | 23.90    | 0           |
|           |          |       |            | 216     | 0         | 23.83               |  |       |   | 23.77    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.71               |  |       |   | 23.25    | 0           |
| CP        | QPSK     | 1     | 1          | 23.64   |           |                     |  | 23.04 | 0 |          |             |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |       |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------|---|----------|-------------|
|           |          |       |            |         |           | 508200              |  |       |   |          | 528996      |
|           |          |       |            |         |           | 2541 MHz            |  |       |   |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.48               |  |       |   | 23.17    | 0           |
|           |          |       |            | 1       | 123       | 23.87               |  |       |   | 23.66    | 0           |
|           |          |       |            | 1       | 243       | 23.25               |  |       |   | 23.60    | 0           |
|           |          |       |            | 120     | 0         | 23.79               |  |       |   | 23.51    | 0           |
|           |          |       |            | 120     | 63        | 23.83               |  |       |   | 23.66    | 0           |
|           |          |       |            | 120     | 125       | 23.68               |  |       |   | 23.87    | 0           |
|           |          |       |            | 243     | 0         | 23.79               |  |       |   | 23.69    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.38               |  |       |   | 22.97    | 0           |
|           |          |       |            | 1       | 123       | 23.82               |  |       |   | 23.66    | 0           |
|           |          |       |            | 1       | 243       | 23.29               |  |       |   | 23.44    | 0           |
|           |          |       |            | 120     | 0         | 23.88               |  |       |   | 23.64    | 0           |
|           |          |       |            | 120     | 63        | 23.80               |  |       |   | 23.77    | 0           |
|           |          |       |            | 120     | 125       | 23.58               |  |       |   | 23.71    | 0           |
|           |          |       |            | 243     | 0         | 23.78               |  |       |   | 23.77    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.52               |  |       |   | 23.09    | 0           |
| CP        | QPSK     | 1     | 1          | 23.49   |           |                     |  | 23.23 | 0 |          |             |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power (dBm) |  |             |   | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------|--|-------------|---|----------|---|
|           |          |       |            |         |           |                     |  | 518598      |   |          |   |
|           |          |       |            |         |           |                     |  | 2592.99 MHz |   |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                     |  | 22.89       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 24.16       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 22.98       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 23.53       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 23.72       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 23.47       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 23.48       |   |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                     |  | 22.93       |   |          | 0 |
|           |          |       |            | 1       | 137       |                     |  | 24.00       |   |          | 0 |
|           |          |       |            | 1       | 271       |                     |  | 22.96       |   |          | 0 |
|           |          |       |            | 135     | 0         |                     |  | 23.45       |   |          | 0 |
|           |          |       |            | 135     | 67        |                     |  | 23.73       |   |          | 0 |
|           |          |       |            | 135     | 138       |                     |  | 23.42       |   |          | 0 |
|           |          |       |            | 270     | 0         |                     |  | 23.45       |   |          | 0 |
|           |          |       | 16QAM      | 1       | 1         |                     |  | 23.04       |   |          | 0 |
| CP        | QPSK     | 1     | 1          |         |           | 22.95               |  |             | 0 |          |   |

**[ NR Band n41 Reduced Conducted Power - Receiver ON ] \_ Power Class 2 \_ SUBAnt.#2**

NR Band n41 \_10 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |          |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|----------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 500202                          | 509400   | 518598      | 527802      | 53700    |          |
|           |          |       |            |         |           | 2501.01 MHz                     | 2547 MHz | 2592.99 MHz | 2639.01 MHz | 2685 MHz |          |
| 10 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.15                           | 23.84    | 23.74       | 23.69       | 24.07    | 0        |
|           |          |       |            | 1       | 12        | 24.20                           | 23.89    | 23.89       | 23.84       | 24.36    | 0        |
|           |          |       |            | 1       | 22        | 24.02                           | 23.74    | 23.70       | 23.74       | 24.27    | 0        |
|           |          |       |            | 12      | 0         | 24.21                           | 23.90    | 23.79       | 23.84       | 24.20    | 0        |
|           |          |       |            | 12      | 6         | 24.18                           | 23.89    | 23.83       | 23.84       | 24.28    | 0        |
|           |          |       |            | 12      | 12        | 24.14                           | 23.84    | 23.81       | 23.78       | 24.32    | 0        |
|           |          |       |            | 24      | 0         | 24.19                           | 23.89    | 23.82       | 23.79       | 24.26    | 0        |
|           |          |       | QPSK       | 1       | 1         | 24.08                           | 23.80    | 23.70       | 23.67       | 23.98    | 0        |
|           |          |       |            | 1       | 12        | 24.12                           | 23.86    | 23.74       | 23.80       | 24.26    | 0        |
|           |          |       |            | 1       | 22        | 24.05                           | 23.70    | 23.61       | 23.71       | 24.24    | 0        |
|           |          |       |            | 12      | 0         | 24.16                           | 23.85    | 23.77       | 23.80       | 24.19    | 0        |
|           |          |       |            | 12      | 6         | 24.17                           | 23.89    | 23.78       | 23.80       | 24.25    | 0        |
|           |          |       |            | 12      | 12        | 24.14                           | 23.80    | 23.76       | 23.75       | 24.34    | 0        |
|           |          |       | 16QAM      | 1       | 1         | 24.15                           | 24.09    | 23.93       | 23.88       | 24.26    | 0        |
| CP        | QPSK     | 1     | 1          | 24.13   | 23.78     | 23.70                           | 23.72    | 24.02       | 0           |          |          |

NR Band n41 \_15 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |             |             |             | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------------|-------------|-------------|----------|---|
|           |          |       |            |         |           | 500700                          | 509664      | 518598      | 527562      | 536496      |          |   |
|           |          |       |            |         |           | 2503.5 MHz                      | 2548.32 MHz | 2592.99 MHz | 2637.81 MHz | 2682.48 MHz |          |   |
| 15 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.18                           | 23.87       | 23.70       | 23.62       | 23.88       | 0        |   |
|           |          |       |            | 1       | 39        | 24.12                           | 23.87       | 23.82       | 23.77       | 24.09       | 0        |   |
|           |          |       |            | 1       | 76        | 23.93                           | 23.73       | 23.57       | 23.71       | 24.19       | 0        |   |
|           |          |       |            | 36      | 0         | 24.15                           | 23.91       | 23.80       | 23.76       | 24.06       | 0        |   |
|           |          |       |            | 36      | 21        | 24.12                           | 23.86       | 23.82       | 23.82       | 24.15       | 0        |   |
|           |          |       |            | 36      | 42        | 24.08                           | 23.82       | 23.76       | 23.78       | 24.23       | 0        |   |
|           |          |       |            | 75      | 0         | 24.08                           | 23.86       | 23.81       | 23.81       | 24.15       | 0        |   |
|           |          |       | QPSK       | 1       | 1         | 23.98                           | 23.83       | 23.65       | 23.59       | 23.90       | 0        |   |
|           |          |       |            | 1       | 39        | 23.98                           | 23.79       | 23.79       | 23.77       | 24.11       | 0        |   |
|           |          |       |            | 1       | 76        | 23.78                           | 23.69       | 23.56       | 23.71       | 24.14       | 0        |   |
|           |          |       |            | 36      | 0         | 24.08                           | 23.89       | 23.72       | 23.74       | 24.08       | 0        |   |
|           |          |       |            | 36      | 21        | 24.12                           | 23.85       | 23.78       | 23.83       | 24.12       | 0        |   |
|           |          |       |            | 36      | 42        | 24.06                           | 23.79       | 23.74       | 23.76       | 24.19       | 0        |   |
|           |          |       |            | 75      | 0         | 24.08                           | 23.85       | 23.72       | 23.78       | 24.10       | 0        |   |
|           |          |       | 16QAM      | 1       | 1         | 24.15                           | 23.96       | 23.75       | 23.92       | 24.05       | 0        |   |
|           |          |       | CP         | QPSK    | 1         | 1                               | 24.08       | 23.77       | 23.65       | 23.63       | 23.94    | 0 |

NR Band n41\_20 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |             |             |             | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------------|-------------|-------------|----------|
|           |          |       |            |         |           | 501204                          | 509898      | 518598      | 527298      | 535998      |          |
|           |          |       |            |         |           | 2506.02 MHz                     | 2549.49 MHz | 2592.99 MHz | 2636.49 MHz | 2679.99 MHz |          |
| 20 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 24.12                           | 23.79       | 23.61       | 23.79       | 23.80       | 0        |
|           |          |       |            | 1       | 26        | 24.10                           | 23.77       | 23.76       | 23.77       | 24.05       | 0        |
|           |          |       |            | 1       | 49        | 23.89                           | 23.64       | 23.51       | 23.68       | 24.14       | 0        |
|           |          |       |            | 25      | 0         | 24.13                           | 23.88       | 23.78       | 23.77       | 23.96       | 0        |
|           |          |       |            | 25      | 13        | 24.12                           | 23.86       | 23.79       | 23.82       | 24.10       | 0        |
|           |          |       |            | 25      | 26        | 24.08                           | 23.76       | 23.71       | 23.71       | 24.18       | 0        |
|           |          |       |            | 50      | 0         | 24.10                           | 23.86       | 23.78       | 23.78       | 24.10       | 0        |
|           |          |       | QPSK       | 1       | 1         | 24.08                           | 23.75       | 23.46       | 23.55       | 23.73       | 0        |
|           |          |       |            | 1       | 26        | 24.08                           | 23.80       | 23.67       | 23.75       | 24.05       | 0        |
|           |          |       |            | 1       | 49        | 23.87                           | 23.65       | 23.42       | 23.70       | 24.13       | 0        |
|           |          |       |            | 25      | 0         | 24.08                           | 23.91       | 23.75       | 23.76       | 23.97       | 0        |
|           |          |       |            | 25      | 13        | 24.12                           | 23.82       | 23.78       | 23.81       | 24.11       | 0        |
|           |          |       |            | 25      | 26        | 24.07                           | 23.77       | 23.69       | 23.71       | 24.19       | 0        |
|           |          | 50    | 0          | 24.10   | 23.85     | 23.74                           | 23.77       | 24.11       | 0           |             |          |
| 16QAM     | 1        | 1     | 24.35      | 23.99   | 23.56     | 23.75                           | 23.89       | 0           |             |             |          |
| CP        | QPSK     | 1     | 1          | 24.05   | 23.68     | 23.48                           | 23.53       | 23.75       | 0           |             |          |

NR Band n41\_30 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |             |             |          | MPR [dB] |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------------|-------------|----------|----------|
|           |          |       |            |         |           | 502200                          | 513468      | 518598      | 523734      | 535000   |          |
|           |          |       |            |         |           | 2511 MHz                        | 2567.34 MHz | 2592.99 MHz | 2618.67 MHz | 2675 MHz |          |
| 30 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.84                           | 23.45       | 23.45       | 23.34       | 23.41    | 0        |
|           |          |       |            | 1       | 39        | 23.94                           | 23.82       | 24.10       | 23.59       | 24.03    | 0        |
|           |          |       |            | 1       | 76        | 23.70                           | 23.56       | 23.22       | 23.38       | 23.91    | 0        |
|           |          |       |            | 36      | 0         | 23.93                           | 23.62       | 23.85       | 23.55       | 23.75    | 0        |
|           |          |       |            | 36      | 21        | 24.03                           | 23.75       | 23.97       | 23.60       | 23.97    | 0        |
|           |          |       |            | 36      | 42        | 23.96                           | 23.74       | 23.74       | 23.49       | 23.98    | 0        |
|           |          |       |            | 75      | 0         | 23.93                           | 23.70       | 23.84       | 23.59       | 23.90    | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.76                           | 23.27       | 23.44       | 23.32       | 23.43    | 0        |
|           |          |       |            | 1       | 39        | 23.96                           | 23.72       | 23.97       | 23.50       | 23.94    | 0        |
|           |          |       |            | 1       | 76        | 23.67                           | 23.39       | 23.18       | 23.37       | 23.95    | 0        |
|           |          |       |            | 36      | 0         | 23.94                           | 23.62       | 23.84       | 23.51       | 23.75    | 0        |
|           |          |       |            | 36      | 21        | 24.05                           | 23.74       | 23.98       | 23.56       | 24.01    | 0        |
|           |          |       |            | 36      | 42        | 23.96                           | 23.72       | 23.67       | 23.50       | 24.00    | 0        |
|           |          |       |            | 75      | 0         | 23.94                           | 23.66       | 23.81       | 23.50       | 23.88    | 0        |
|           |          |       |            | 16QAM   | 1         | 1                               | 24.11       | 23.50       | 23.50       | 23.60    | 23.68    |
|           |          | CP    | QPSK       | 1       | 1         | 23.88                           | 23.52       | 23.34       | 23.45       | 23.42    | 0        |

NR Band n41\_40 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |             |       |             | MPR [dB] |          |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------------|-------|-------------|----------|----------|
|           |          |       |            |         |           | 503202                          | 513468      |       | 523734      |          | 534000   |
|           |          |       |            |         |           | 2516.01 MHz                     | 2567.34 MHz |       | 2618.67 MHz |          | 2670 MHz |
| 40 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.63                           | 23.19       |       | 23.30       | 23.24    | 0        |
|           |          |       |            | 1       | 53        | 24.08                           | 23.84       |       | 23.56       | 24.01    | 0        |
|           |          |       |            | 1       | 104       | 23.47                           | 23.40       |       | 23.17       | 23.73    | 0        |
|           |          |       |            | 50      | 0         | 23.82                           | 23.58       |       | 23.56       | 23.70    | 0        |
|           |          |       |            | 50      | 28        | 24.02                           | 23.72       |       | 23.57       | 23.89    | 0        |
|           |          |       |            | 50      | 56        | 23.90                           | 23.73       |       | 23.36       | 23.93    | 0        |
|           |          |       |            | 100     | 0         | 23.91                           | 23.70       |       | 23.53       | 23.85    | 0        |
|           |          |       | QPSK       | 1       | 1         | 23.49                           | 23.18       |       | 23.30       | 23.22    | 0        |
|           |          |       |            | 1       | 53        | 23.95                           | 23.75       |       | 23.51       | 23.94    | 0        |
|           |          |       |            | 1       | 104       | 23.34                           | 23.36       |       | 23.17       | 23.73    | 0        |
|           |          |       |            | 50      | 0         | 23.82                           | 23.59       |       | 23.48       | 23.66    | 0        |
|           |          |       |            | 50      | 28        | 24.01                           | 23.71       |       | 23.53       | 23.87    | 0        |
|           |          |       |            | 50      | 56        | 23.88                           | 23.70       |       | 23.37       | 23.92    | 0        |
|           |          |       |            | 100     | 0         | 23.86                           | 23.69       |       | 23.49       | 23.82    | 0        |
|           |          |       | 16QAM      | 1       | 1         | 23.66                           | 23.30       |       | 23.39       | 23.38    | 0        |
|           |          |       | CP         | QPSK    | 1         | 1                               | 23.59       | 23.19 |             | 23.34    | 23.28    |

NR Band n41\_50 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |             |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------|-------------|-------|----------|-------------|
|           |          |       |            |         |           | 504204                          |       | 518598      |       |          | 532998      |
|           |          |       |            |         |           | 2521.02 MHz                     |       | 2592.99 MHz |       |          | 2664.99 MHz |
| 50 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.84                           |       | 23.44       |       | 23.48    | 0           |
|           |          |       |            | 1       | 67        | 23.96                           |       | 24.06       |       | 23.80    | 0           |
|           |          |       |            | 1       | 131       | 23.54                           |       | 23.22       |       | 23.99    | 0           |
|           |          |       |            | 64      | 0         | 23.89                           |       | 23.76       |       | 23.76    | 0           |
|           |          |       |            | 64      | 35        | 24.01                           |       | 23.95       |       | 23.83    | 0           |
|           |          |       |            | 64      | 69        | 23.87                           |       | 23.62       |       | 23.96    | 0           |
|           |          |       |            | 128     | 0         | 23.91                           |       | 23.73       |       | 23.88    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.80                           |       | 23.40       |       | 23.33    | 0           |
|           |          |       |            | 1       | 67        | 23.94                           |       | 24.03       |       | 23.64    | 0           |
|           |          |       |            | 1       | 131       | 23.56                           |       | 23.22       |       | 23.86    | 0           |
|           |          |       |            | 64      | 0         | 23.84                           |       | 23.75       |       | 23.77    | 0           |
|           |          |       |            | 64      | 35        | 24.00                           |       | 23.88       |       | 23.83    | 0           |
|           |          |       |            | 64      | 69        | 23.88                           |       | 23.63       |       | 23.93    | 0           |
|           |          |       |            | 128     | 0         | 23.89                           |       | 23.70       |       | 23.88    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.98                           |       | 23.51       |       | 23.43    | 0           |
|           |          |       | CP         | QPSK    | 1         | 1                               | 23.81 |             | 23.41 |          | 23.43       |

NR Band n41\_60 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |  |             |   | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|--|-------------|---|----------|-------------|
|           |          |       |            |         |           | 505200                          |  | 518598      |   |          | 531996      |
|           |          |       |            |         |           | 2526 MHz                        |  | 2592.99 MHz |   |          | 2659.98 MHz |
| 60 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.73                           |  | 23.28       |   | 23.27    | 0           |
|           |          |       |            | 1       | 81        | 24.09                           |  | 24.14       |   | 23.83    | 0           |
|           |          |       |            | 1       | 160       | 23.35                           |  | 23.12       |   | 23.86    | 0           |
|           |          |       |            | 81      | 0         | 23.81                           |  | 23.66       |   | 23.85    | 0           |
|           |          |       |            | 81      | 41        | 23.98                           |  | 23.89       |   | 23.84    | 0           |
|           |          |       |            | 81      | 81        | 23.76                           |  | 23.54       |   | 23.93    | 0           |
|           |          |       |            | 162     | 0         | 23.82                           |  | 23.63       |   | 23.91    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.67                           |  | 23.25       |   | 23.29    | 0           |
|           |          |       |            | 1       | 81        | 23.99                           |  | 24.03       |   | 23.77    | 0           |
|           |          |       |            | 1       | 160       | 23.32                           |  | 23.10       |   | 23.84    | 0           |
|           |          |       |            | 81      | 0         | 23.80                           |  | 23.65       |   | 23.83    | 0           |
|           |          |       |            | 81      | 41        | 23.95                           |  | 23.89       |   | 23.79    | 0           |
|           |          |       |            | 81      | 81        | 23.74                           |  | 23.50       |   | 23.91    | 0           |
|           |          |       |            | 162     | 0         | 23.80                           |  | 23.55       |   | 23.90    | 0           |
|           |          |       | 16QAM      | 1       | 1         | 23.91                           |  | 23.44       |   | 23.44    | 0           |
| CP        | QPSK     | 1     | 1          | 23.65   |           | 23.27                           |  | 23.32       | 0 |          |             |

NR Band n41\_80 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |  |  | MPR [dB] |             |   |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------|--|--|----------|-------------|---|
|           |          |       |            |         |           | 507204                          |       |  |  |          | 529998      |   |
|           |          |       |            |         |           | 2536.02 MHz                     |       |  |  |          | 2649.99 MHz |   |
| 80 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.57                           |       |  |  | 23.07    | 0           |   |
|           |          |       |            | 1       | 109       | 24.02                           |       |  |  | 23.77    | 0           |   |
|           |          |       |            | 1       | 215       | 23.22                           |       |  |  | 23.72    | 0           |   |
|           |          |       |            | 108     | 0         | 23.90                           |       |  |  | 23.74    | 0           |   |
|           |          |       |            | 108     | 55        | 23.96                           |       |  |  | 23.85    | 0           |   |
|           |          |       |            | 108     | 109       | 23.71                           |       |  |  | 23.92    | 0           |   |
|           |          |       |            | 216     | 0         | 23.79                           |       |  |  | 23.75    | 0           |   |
|           |          |       | QPSK       | 1       | 1         | 23.53                           |       |  |  | 23.05    | 0           |   |
|           |          |       |            | 1       | 109       | 24.00                           |       |  |  | 23.79    | 0           |   |
|           |          |       |            | 1       | 215       | 23.19                           |       |  |  | 23.72    | 0           |   |
|           |          |       |            | 108     | 0         | 23.94                           |       |  |  | 23.73    | 0           |   |
|           |          |       |            | 108     | 55        | 23.93                           |       |  |  | 23.84    | 0           |   |
|           |          |       |            | 108     | 109       | 23.73                           |       |  |  | 23.87    | 0           |   |
|           |          |       |            | 216     | 0         | 23.80                           |       |  |  | 23.75    | 0           |   |
|           |          |       | 16QAM      | 1       | 1         | 23.68                           |       |  |  | 23.19    | 0           |   |
|           |          |       | CP         | QPSK    | 1         | 1                               | 23.58 |  |  |          | 23.06       | 0 |

NR Band n41\_90 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |  |  |       | MPR [dB] |             |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|--|--|-------|----------|-------------|
|           |          |       |            |         |           | 508200                          |  |  |       |          | 528996      |
|           |          |       |            |         |           | 2541 MHz                        |  |  |       |          | 2644.98 MHz |
| 90 MHz    | 30       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.43                           |  |  |       | 23.13    | 0           |
|           |          |       |            | 1       | 123       | 23.90                           |  |  |       | 23.72    | 0           |
|           |          |       |            | 1       | 243       | 23.27                           |  |  |       | 23.62    | 0           |
|           |          |       |            | 120     | 0         | 23.82                           |  |  |       | 23.57    | 0           |
|           |          |       |            | 120     | 63        | 23.89                           |  |  |       | 23.69    | 0           |
|           |          |       |            | 120     | 125       | 23.65                           |  |  |       | 23.79    | 0           |
|           |          |       |            | 243     | 0         | 23.76                           |  |  |       | 23.68    | 0           |
|           |          |       | QPSK       | 1       | 1         | 23.39                           |  |  |       | 23.00    | 0           |
|           |          |       |            | 1       | 123       | 23.87                           |  |  |       | 23.61    | 0           |
|           |          |       |            | 1       | 243       | 23.26                           |  |  |       | 23.51    | 0           |
|           |          |       |            | 120     | 0         | 23.82                           |  |  |       | 23.61    | 0           |
|           |          |       |            | 120     | 63        | 23.87                           |  |  |       | 23.72    | 0           |
|           |          |       |            | 120     | 125       | 23.64                           |  |  |       | 23.74    | 0           |
|           |          |       |            | 243     | 0         | 23.75                           |  |  |       | 23.70    | 0           |
|           |          | 16QAM | 1          | 1       | 23.57     |                                 |  |  | 23.12 | 0        |             |
|           |          | CP    | QPSK       | 1       | 1         | 23.44                           |  |  |       | 23.19    | 0           |

NR Band n41\_100 MHz Bandwidth

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Reduced Power_Receiver ON [dBm] |       |             |  | MPR [dB] |   |
|-----------|----------|-------|------------|---------|-----------|---------------------------------|-------|-------------|--|----------|---|
|           |          |       |            |         |           |                                 |       | 518598      |  |          |   |
|           |          |       |            |         |           |                                 |       | 2592.99 MHz |  |          |   |
| 100 MHz   | 30       | DFT-s | pi/2 BPSK  | 1       | 1         |                                 |       | 22.90       |  |          | 0 |
|           |          |       |            | 1       | 137       |                                 |       | 24.09       |  |          | 0 |
|           |          |       |            | 1       | 271       |                                 |       | 22.90       |  |          | 0 |
|           |          |       |            | 135     | 0         |                                 |       | 23.54       |  |          | 0 |
|           |          |       |            | 135     | 67        |                                 |       | 23.74       |  |          | 0 |
|           |          |       |            | 135     | 138       |                                 |       | 23.41       |  |          | 0 |
|           |          |       |            | 270     | 0         |                                 |       | 23.49       |  |          | 0 |
|           |          |       | QPSK       | 1       | 1         |                                 |       | 22.88       |  |          | 0 |
|           |          |       |            | 1       | 137       |                                 |       | 24.07       |  |          | 0 |
|           |          |       |            | 1       | 271       |                                 |       | 22.92       |  |          | 0 |
|           |          |       |            | 135     | 0         |                                 |       | 23.52       |  |          | 0 |
|           |          |       |            | 135     | 67        |                                 |       | 23.77       |  |          | 0 |
|           |          |       |            | 135     | 138       |                                 |       | 23.40       |  |          | 0 |
|           |          |       |            | 270     | 0         |                                 |       | 23.49       |  |          | 0 |
|           |          | 16QAM | 1          | 1       |           |                                 | 23.08 |             |  | 0        |   |
|           |          | CP    | QPSK       | 1       | 1         |                                 |       | 22.90       |  |          | 0 |



### 11.7 WIFI Conducted Power measurement method

Un-Licensed bands (DTS Band)

| Test Description       | Test Procedure Used  |
|------------------------|--|
| Conducted Output Power | - KDB 558074 v05 - Section 8.3.2.3<br>- ANSI 63.10-2013 - Section 11.9.2.3 |

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

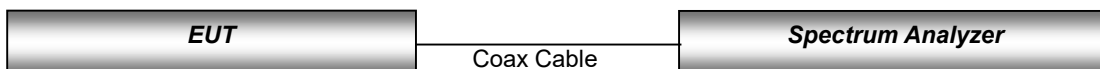
Un-Licensed bands (NII Band)

| Test Description       | Test Procedure Used                     |
|------------------------|---|
| Conducted Output Power | - KDB 789033 D02 v02r01 - Section E.3.a |

Test Procedure

1. Measure the duty cycle.
2. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
3. Add  $10 \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times.

Test setup



**11.7.1 IEEE 802.11 (2.4 GHz) Maximum Conducted Power**

| Mode           | Frequency [MHz] | Channel | IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm] |
|----------------|-----------------|---------|--|
| 802.11b        | 2 412           | 1       | 18.96  |
|                | 2 437           | 6       | 18.96  |
|                | 2 462           | 11      | 18.81  |
| 802.11g        | 2 412           | 1       | 18.11  |
|                | 2 437           | 6       | 17.75  |
|                | 2 462           | 11      | 17.84  |
| 802.11n (HT20) | 2 412           | 1       | 17.97  |
|                | 2 437           | 6       | 17.65  |
|                | 2 462           | 11      | 17.84  |

**11.7.2 IEEE 802.11 (2.4 GHz) Reduced Conducted Power (Held to ear VOIP)**

| Mode           | Frequency [MHz] | Channel | IEEE 802.11 (2.4 GHz) Average RF Conducted Power [dBm] |
|----------------|-----------------|---------|--|
| 802.11b        | 2 412           | 1       | 14.81  |
|                | 2 437           | 6       | 14.43  |
|                | 2 462           | 11      | 14.68  |
| 802.11g        | 2 412           | 1       | 14.96  |
|                | 2 437           | 6       | 14.51  |
|                | 2 462           | 11      | 14.72  |
| 802.11n (HT20) | 2 412           | 1       | 14.86  |
|                | 2 437           | 6       | 14.39  |
|                | 2 462           | 11      | 14.58  |

**11.7.3 IEEE 802.11 (5 GHz) Maximum Conducted Power**

| Mode                   | Frequency [MHz] | Channel | IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm] |
|------------------------|-----------------|---------|--|
| 802.11a<br>(20 MHz BW) | 5 180           | 36      | 16.51  |
|                        | 5 200           | 40      | 16.77  |
|                        | 5 240           | 48      | 16.57  |
|                        | 5 260           | 52      | 17.19  |
|                        | 5 300           | 60      | 17.56  |
|                        | 5 320           | 64      | 17.63  |
|                        | 5 500           | 100     | 17.09  |
|                        | 5 600           | 120     | 16.82  |
|                        | 5 720           | 144     | 17.65  |
|                        | 5 745           | 149     | 16.76  |
|                        | 5 785           | 157     | 16.69  |
| 5 825                  | 165             | 16.76   |  |

| Mode                   | Frequency [MHz] | Channel | IEEE 802.11 (5 GHz) Average RF Conducted Power [dBm] |
|------------------------|-----------------|---------|--|
| 802.11n<br>(40 MHz BW) | 5190            | 38      | 14.71  |
|                        | 5230            | 46      | 16.58  |
|                        | 5270            | 54      | 17.37  |
|                        | 5310            | 62      | 14.82  |
|                        | 5510            | 102     | 14.22  |
|                        | 5590            | 118     | 16.95  |
|                        | 5710            | 142     | 17.06  |
|                        | 5755            | 151     | 16.78  |
|                        | 5795            | 159     | 16.83  |

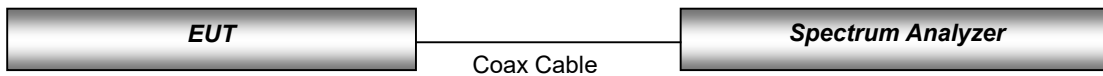
**11.7.4 IEEE 802.11 (5 GHz) Reduced Conducted Power (Held to ear VOIP)**

| Mode                    | Frequency [MHz] | Channel | IEEE 802.11 (5 GHz) Reduced Average Conducted Power [dBm] |
|-------------------------|-----------------|---------|---|
| 802.11ac<br>(80 MHz BW) | 5 210           | 42      | 13.07   |
|                         | 5 290           | 58      | 13.61   |
|                         | 5 530           | 106     | 13.55   |
|                         | 5 690           | 138     | 12.98   |
|                         | 5 775           | 155     | 12.72   |

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission mode with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

**Test Configuration**



## 11.8 Bluetooth

### 11.8.1 Bluetooth Maximum Conducted Power

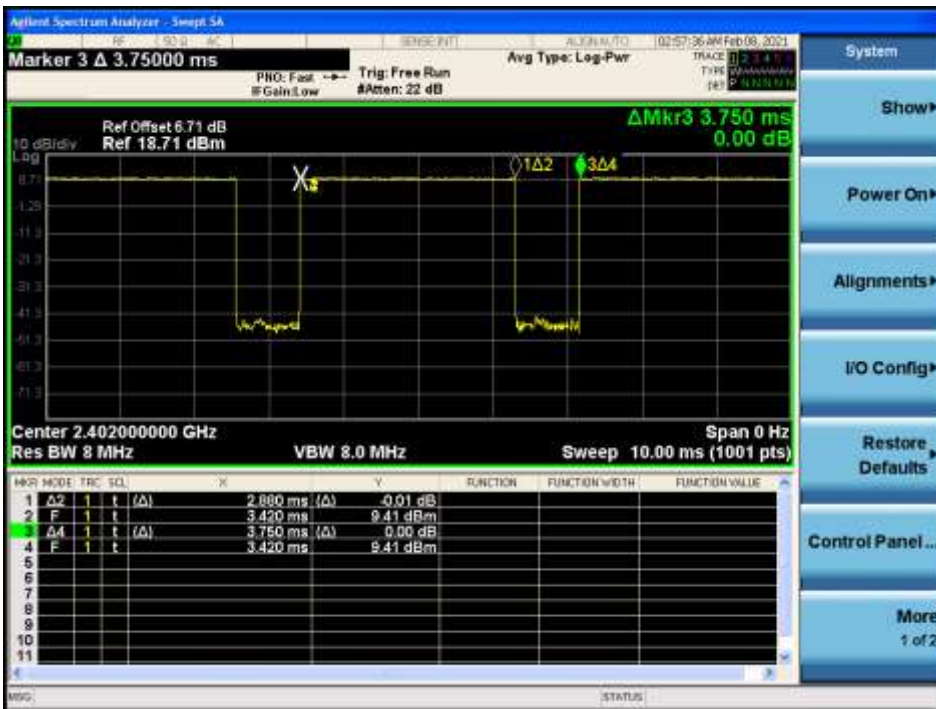
The Burst averaged-conducted power

| Mode  | Channel | Bluetooth Power [dBm] |
|-------|---------|-----------------------|
| DH5   | 0       | 9.35                  |
|       | 39      | 8.45                  |
|       | 78      | 7.42                  |
| 2-DH5 | 0       | 6.24                  |
|       | 39      | 5.15                  |
|       | 78      | 5.04                  |
| 3-DH5 | 0       | 6.06                  |
|       | 39      | 5.00                  |
|       | 78      | 4.93                  |

Per October 2016 TCB Workshop Notes:

When call box and Bluetooth protocol are used for Bluetooth SAR measurement, time-domain plot is required to identify duty factor for supporting the test setup and result.

Bluetooth duty cycle was measured using Bluetooth tester equipment (CBT / R&S) with Bluetooth DH5 mode.



Bluetooth

Duty Cycle

$$= (\text{BT-On time} / \text{BT-Full time}) = (2.880 / 3.750) = 0.768 \text{ (DH5)}$$

Duty factor= 1/Duty cycle : 1.302

## 12. System Verification

### 12.1 Tissue Verification

The body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity.

| Table for Head Tissue Verification |                   |             |             |                                      |  |                                    |  |                |                  |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests                      | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | Target Conductivity $\sigma$ (S/m) | Target Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
| 01/05/2021                         | 18.5              | 750H        | 705         | 0.858                                | 43.288                                   | 0.889                              | 42.174                                 | -3.49          | 2.64             |
|                                    |                   |             | 710         | 0.864                                | 43.212                                   | 0.890                              | 42.148                                 | -2.92          | 2.52             |
|                                    |                   |             | 750         | 0.905                                | 42.607                                   | 0.893                              | 41.940                                 | 1.34           | 1.59             |
| 01/08/2021                         | 18.5              | 750H        | 670         | 0.843                                | 41.329                                   | 0.888                              | 42.356                                 | -4.84          | -2.42            |
|                                    |                   |             | 700         | 0.874                                | 40.924                                   | 0.89                               | 42.2                                   | -1.8           | -3.02            |
|                                    |                   |             | 750         | 0.923                                | 40.319                                   | 0.893                              | 41.940                                 | 3.36           | -3.87            |
| 01/12/2021                         | 20.4              | 750H        | 670         | 0.871                                | 43.287                                   | 0.888                              | 42.356                                 | -1.91          | 2.20             |
|                                    |                   |             | 700         | 0.900                                | 42.916                                   | 0.89                               | 42.2                                   | 1.12           | 1.70             |
|                                    |                   |             | 710         | 0.905                                | 42.850                                   | 0.890                              | 42.148                                 | 1.69           | 1.67             |
| 01/13/2021                         | 20.9              | 750H        | 750         | 0.882                                | 42.235                                   | 0.893                              | 41.940                                 | -1.23          | 0.70             |
|                                    |                   |             | 785         | 0.912                                | 41.835                                   | 0.896                              | 41.758                                 | 1.79           | 0.18             |
|                                    |                   |             | 750         | 0.849                                | 42.371                                   | 0.893                              | 41.940                                 | -4.93          | 1.03             |
| 01/29/2021                         | 21.9              | 750H        | 785         | 0.881                                | 41.888                                   | 0.896                              | 41.758                                 | -1.67          | 0.31             |
|                                    |                   |             | 820         | 0.923                                | 41.922                                   | 0.899                              | 41.577                                 | 2.67           | 0.83             |
| 01/07/2021                         | 21.9              | 835H        | 835         | 0.938                                | 41.728                                   | 0.900                              | 41.500                                 | 4.22           | 0.55             |
|                                    |                   |             | 850         | 0.954                                | 41.697                                   | 0.916                              | 41.500                                 | 4.15           | 0.47             |
|                                    |                   |             | 820         | 0.921                                | 41.919                                   | 0.899                              | 41.577                                 | 2.45           | 0.82             |
| 01/06/2021                         | 21.8              | 835H        | 835         | 0.937                                | 41.700                                   | 0.900                              | 41.500                                 | 4.11           | 0.48             |
|                                    |                   |             | 850         | 0.954                                | 41.552                                   | 0.916                              | 41.500                                 | 4.15           | 0.13             |
|                                    |                   |             | 820         | 0.902                                | 42.958                                   | 0.899                              | 41.577                                 | 0.33           | 3.32             |
| 01/04/2021                         | 18.9              | 835H        | 835         | 0.916                                | 42.788                                   | 0.900                              | 41.500                                 | 1.78           | 3.10             |
|                                    |                   |             | 850         | 0.928                                | 42.617                                   | 0.916                              | 41.500                                 | 1.31           | 2.69             |
|                                    |                   |             | 820         | 0.901                                | 42.919                                   | 0.899                              | 41.577                                 | 0.22           | 3.23             |
| 12/31/2020                         | 22.0              | 835H        | 835         | 0.915                                | 42.745                                   | 0.900                              | 41.500                                 | 1.67           | 3.00             |
|                                    |                   |             | 850         | 0.928                                | 42.578                                   | 0.916                              | 41.500                                 | 1.31           | 2.60             |
|                                    |                   |             | 820         | 0.920                                | 41.367                                   | 0.899                              | 41.577                                 | 2.34           | -0.51            |
| 01/14/2021                         | 20.4              | 835H        | 835         | 0.935                                | 41.156                                   | 0.900                              | 41.500                                 | 3.89           | -0.83            |
|                                    |                   |             | 850         | 0.946                                | 40.935                                   | 0.916                              | 41.500                                 | 3.28           | -1.36            |
|                                    |                   |             | 1710        | 1.307                                | 40.147                                   | 1.348                              | 40.144                                 | -3.04          | 0.01             |
| 01/27/2021                         | 21.9              | 1800H       | 1750        | 1.345                                | 39.977                                   | 1.371                              | 40.080                                 | -1.90          | -0.26            |
|                                    |                   |             | 1800        | 1.403                                | 39.708                                   | 1.400                              | 40.000                                 | 0.21           | -0.73            |
|                                    |                   |             | 1710        | 1.332                                | 42.029                                   | 1.348                              | 40.144                                 | -1.19          | 4.70             |
| 02/07/2021                         | 22.3              | 1800H       | 1750        | 1.372                                | 41.852                                   | 1.371                              | 40.080                                 | 0.07           | 4.42             |
|                                    |                   |             | 1800        | 1.431                                | 41.640                                   | 1.400                              | 40.000                                 | 2.21           | 4.10             |
|                                    |                   |             | 1710        | 1.327                                | 41.212                                   | 1.348                              | 40.144                                 | -1.56          | 2.66             |
| 01/07/2021                         | 19.6              | 1800H       | 1750        | 1.369                                | 41.056                                   | 1.371                              | 40.080                                 | -0.15          | 2.44             |
|                                    |                   |             | 1800        | 1.423                                | 40.798                                   | 1.400                              | 40.000                                 | 1.64           | 2.00             |
|                                    |                   |             | 1710        | 1.288                                | 41.800                                   | 1.348                              | 40.144                                 | -4.45          | 4.13             |
| 01/26/2021                         | 19.1              | 1800H       | 1750        | 1.331                                | 41.626                                   | 1.371                              | 40.080                                 | -2.92          | 3.86             |
|                                    |                   |             | 1800        | 1.387                                | 41.370                                   | 1.400                              | 40.000                                 | -0.93          | 3.42             |
|                                    |                   |             | 1850        | 1.384                                | 41.301                                   | 1.400                              | 40.000                                 | -1.14          | 3.25             |
| 12/31/2020                         | 20.3              | 1900H       | 1900        | 1.449                                | 39.294                                   | 1.400                              | 40.000                                 | 3.50           | -1.77            |
|                                    |                   |             | 1910        | 1.446                                | 40.989                                   | 1.400                              | 40.000                                 | 3.29           | 2.47             |

| Table for Head Tissue Verification |                   |             |             |                                      |  |                                    |  |                |                  |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests                      | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | Target Conductivity $\sigma$ (S/m) | Target Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
| 01/04/2021                         | 21.9              | 1900H       | 1850        | 1.398                                | 39.432                                   | 1.400                              | 40.000                                 | -0.14          | -1.42            |
|                                    |                   |             | 1900        | 1.467                                | 39.203                                   | 1.400                              | 40.000                                 | 4.79           | -1.99            |
|                                    |                   |             | 1910        | 1.466                                | 39.152                                   | 1.400                              | 40.000                                 | 4.71           | -2.12            |
| 01/05/2021                         | 20.9              | 1900H       | 1850        | 1.401                                | 39.857                                   | 1.400                              | 40.000                                 | 0.07           | -0.36            |
|                                    |                   |             | 1900        | 1.466                                | 39.660                                   | 1.400                              | 40.000                                 | 4.71           | -0.85            |
|                                    |                   |             | 1910        | 1.461                                | 39.629                                   | 1.400                              | 40.000                                 | 4.36           | -0.93            |
| 01/06/2021                         | 22.3              | 1900H       | 1850        | 1.383                                | 39.392                                   | 1.400                              | 40.000                                 | -1.21          | -1.52            |
|                                    |                   |             | 1900        | 1.446                                | 39.149                                   | 1.400                              | 40.000                                 | 3.29           | -2.13            |
|                                    |                   |             | 1910        | 1.445                                | 39.140                                   | 1.400                              | 40.000                                 | 3.21           | -2.15            |
| 01/25/2021                         | 19.0              | 1900H       | 1850        | 1.388                                | 41.185                                   | 1.400                              | 40.000                                 | -0.86          | 2.96             |
|                                    |                   |             | 1900        | 1.449                                | 40.978                                   | 1.400                              | 40.000                                 | 3.50           | 2.45             |
|                                    |                   |             | 1910        | 1.448                                | 40.910                                   | 1.400                              | 40.000                                 | 3.43           | 2.27             |
| 02/01/2021                         | 22.2              | 1900H       | 1850        | 1.384                                | 41.301                                   | 1.400                              | 40.000                                 | -1.14          | 3.25             |
|                                    |                   |             | 1900        | 1.448                                | 41.078                                   | 1.400                              | 40.000                                 | 3.43           | 2.70             |
|                                    |                   |             | 1910        | 1.446                                | 40.989                                   | 1.400                              | 40.000                                 | 3.29           | 2.47             |
| 02/06/2021                         | 22.3              | 1900H       | 1850        | 1.382                                | 41.425                                   | 1.400                              | 40.000                                 | -1.29          | 3.56             |
|                                    |                   |             | 1900        | 1.446                                | 41.217                                   | 1.400                              | 40.000                                 | 3.29           | 3.04             |
|                                    |                   |             | 1910        | 1.444                                | 41.152                                   | 1.400                              | 40.000                                 | 3.14           | 2.88             |
| 02/06/2021                         | 20.0              | 2300H       | 2300        | 1.655                                | 40.129                                   | 1.667                              | 39.470                                 | -0.72          | 1.67             |
|                                    |                   |             | 2310        | 1.666                                | 40.116                                   | 1.676                              | 39.452                                 | -0.60          | 1.68             |
|                                    |                   |             | 2350        | 1.716                                | 40.045                                   | 1.711                              | 39.380                                 | 0.29           | 1.69             |
|                                    |                   |             | 2360        | 1.728                                | 40.022                                   | 1.720                              | 39.362                                 | 0.47           | 1.68             |
| 02/08/2021                         | 21.8              | 2300H       | 2300        | 1.661                                | 40.123                                   | 1.667                              | 39.470                                 | -0.36          | 1.65             |
|                                    |                   |             | 2310        | 1.668                                | 40.109                                   | 1.676                              | 39.452                                 | -0.48          | 1.67             |
|                                    |                   |             | 2350        | 1.711                                | 40.031                                   | 1.711                              | 39.380                                 | 0.00           | 1.65             |
|                                    |                   |             | 2360        | 1.726                                | 40.081                                   | 1.720                              | 39.362                                 | 0.35           | 1.83             |
| 01/19/2021                         | 20.5              | 2300H       | 2300        | 1.639                                | 40.810                                   | 1.667                              | 39.470                                 | -1.68          | 3.39             |
|                                    |                   |             | 2310        | 1.642                                | 40.806                                   | 1.676                              | 39.452                                 | -2.03          | 3.43             |
|                                    |                   |             | 2350        | 1.687                                | 40.663                                   | 1.711                              | 39.380                                 | -1.40          | 3.26             |
|                                    |                   |             | 2360        | 1.695                                | 40.580                                   | 1.720                              | 39.362                                 | -1.45          | 3.09             |
| 01/20/2021                         | 21.1              | 2300H       | 2300        | 1.639                                | 40.810                                   | 1.667                              | 39.470                                 | -1.68          | 3.39             |
|                                    |                   |             | 2310        | 1.668                                | 40.813                                   | 1.676                              | 39.452                                 | -0.48          | 3.45             |
|                                    |                   |             | 2350        | 1.714                                | 40.722                                   | 1.711                              | 39.380                                 | 0.18           | 3.41             |
|                                    |                   |             | 2360        | 1.723                                | 40.615                                   | 1.720                              | 39.362                                 | 0.17           | 3.18             |
| 02/06/2021                         | 21.4              | 2450H       | 2400        | 1.788                                | 40.976                                   | 1.756                              | 39.290                                 | 1.82           | 4.29             |
|                                    |                   |             | 2450        | 1.851                                | 40.807                                   | 1.800                              | 39.200                                 | 2.83           | 4.10             |
|                                    |                   |             | 2500        | 1.900                                | 40.598                                   | 1.855                              | 39.140                                 | 2.43           | 3.73             |
| 01/21/2021                         | 21.5              | 2450H       | 2400        | 1.728                                | 38.565                                   | 1.756                              | 39.290                                 | -1.59          | -1.85            |
|                                    |                   |             | 2450        | 1.788                                | 38.420                                   | 1.800                              | 39.200                                 | -0.67          | -1.99            |
|                                    |                   |             | 2500        | 1.847                                | 38.238                                   | 1.855                              | 39.140                                 | -0.43          | -2.30            |
| 02/04/2021                         | 21.2              | 2600H       | 2500        | 1.887                                | 40.123                                   | 1.855                              | 39.140                                 | 1.73           | 2.51             |
|                                    |                   |             | 2600        | 2.003                                | 39.843                                   | 1.964                              | 39.010                                 | 1.99           | 2.14             |
|                                    |                   |             | 2690        | 2.109                                | 39.607                                   | 2.062                              | 38.894                                 | 2.28           | 1.83             |
| 02/08/2021                         | 22.2              | 2600H       | 2500        | 1.883                                | 40.112                                   | 1.855                              | 39.140                                 | 1.51           | 2.48             |
|                                    |                   |             | 2600        | 1.998                                | 39.829                                   | 1.964                              | 39.010                                 | 1.73           | 2.10             |
|                                    |                   |             | 2690        | 2.108                                | 39.598                                   | 2.062                              | 38.894                                 | 2.23           | 1.81             |

| Table for Head Tissue Verification |                   |             |             |                                      |  |                                    |  |                |                  |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests                      | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | Target Conductivity $\sigma$ (S/m) | Target Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
| 02/03/2021                         | 22.5              | 2600H       | 2500        | 1.893                                | 40.130                                   | 1.855                              | 39.140                                 | 2.05           | 2.53             |
|                                    |                   |             | 2600        | 2.005                                | 39.864                                   | 1.964                              | 39.010                                 | 2.09           | 2.19             |
|                                    |                   |             | 2690        | 2.111                                | 39.632                                   | 2.062                              | 38.894                                 | 2.38           | 1.90             |
| 02/02/2021                         | 20.5              | 2600H       | 2500        | 1.894                                | 40.113                                   | 1.855                              | 39.140                                 | 2.10           | 2.49             |
|                                    |                   |             | 2600        | 2.011                                | 39.844                                   | 1.964                              | 39.010                                 | 2.39           | 2.14             |
|                                    |                   |             | 2690        | 2.117                                | 39.620                                   | 2.062                              | 38.894                                 | 2.67           | 1.87             |
| 02/08/2021                         | 21.6              | 2600H       | 2500        | 1.908                                | 40.232                                   | 1.855                              | 39.140                                 | 2.86           | 2.79             |
|                                    |                   |             | 2600        | 2.025                                | 39.924                                   | 1.964                              | 39.010                                 | 3.11           | 2.34             |
|                                    |                   |             | 2690        | 2.128                                | 39.694                                   | 2.062                              | 38.894                                 | 3.20           | 2.06             |
| 01/26/2021                         | 22.3              | 3500H-3700H | 3500        | 2.982                                | 38.151                                   | 2.913                              | 37.930                                 | 2.37           | 0.58             |
|                                    |                   |             | 3550        | 2.944                                | 37.426                                   | 2.964                              | 37.870                                 | -0.67          | -1.17            |
|                                    |                   |             | 3650        | 3.085                                | 37.618                                   | 3.066                              | 37.760                                 | 0.62           | -0.38            |
|                                    |                   |             | 3700        | 3.153                                | 37.580                                   | 3.118                              | 37.700                                 | 1.12           | -0.32            |

| Table for Head Tissue Verification |                   |             |             |                                      |  |                                    |  |                |                  |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests                      | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | Target Conductivity $\sigma$ (S/m) | Target Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
| 02/02/2021                         | 22.1              | 5180H-5320H | 5180        | 4.723                                | 37.229                                   | 4.635                              | 36.010                                 | 1.90           | 3.39             |
|                                    |                   |             | 5250        | 4.840                                | 37.142                                   | 4.706                              | 35.930                                 | 2.85           | 3.37             |
|                                    |                   |             | 5280        | 4.925                                | 36.827                                   | 4.737                              | 35.894                                 | 3.97           | 2.60             |
|                                    |                   |             | 5320        | 4.962                                | 36.494                                   | 4.778                              | 35.846                                 | 3.85           | 1.81             |
| 02/03/2021                         | 21.8              | 5500H~5600H | 5500        | 5.052                                | 36.744                                   | 4.963                              | 35.640                                 | 1.79           | 3.10             |
|                                    |                   |             | 5600        | 5.096                                | 36.468                                   | 5.065                              | 35.530                                 | 0.61           | 2.64             |
| 02/03/2021                         | 21.8              | 5750H-5800H | 5750        | 5.260                                | 35.888                                   | 5.219                              | 35.360                                 | 0.79           | 1.49             |
|                                    |                   |             | 5800        | 5.357                                | 35.386                                   | 5.270                              | 35.300                                 | 1.65           | 0.24             |
|                                    |                   |             | 5825        | 5.271                                | 35.135                                   | 5.296                              | 35.270                                 | -0.47          | -0.38            |
| 02/04/2021                         | 20.3              | 5180H-5600H | 5180        | 4.793                                | 36.127                                   | 4.635                              | 36.010                                 | 3.41           | 0.32             |
|                                    |                   |             | 5250        | 4.861                                | 36.206                                   | 4.706                              | 35.930                                 | 3.29           | 0.77             |
|                                    |                   |             | 5280        | 4.894                                | 35.928                                   | 4.737                              | 35.894                                 | 3.31           | 0.09             |
|                                    |                   |             | 5320        | 4.940                                | 35.707                                   | 4.778                              | 35.846                                 | 3.39           | -0.39            |
|                                    |                   |             | 5500        | 5.099                                | 35.827                                   | 4.963                              | 35.640                                 | 2.74           | 0.52             |
| 02/06/2021                         | 21.3              | 5750H-5800H | 5600        | 5.166                                | 35.460                                   | 5.065                              | 35.530                                 | 1.99           | -0.20            |
|                                    |                   |             | 5750        | 5.327                                | 35.523                                   | 5.219                              | 35.360                                 | 2.07           | 0.46             |
|                                    |                   |             | 5800        | 5.495                                | 35.398                                   | 5.270                              | 35.300                                 | 4.27           | 0.28             |
|                                    |                   |             | 5825        | 5.422                                | 35.178                                   | 5.296                              | 35.270                                 | 2.38           | -0.26            |



- 5G NR SUB 6

| Table for Head Tissue Verification |                   |             |             |                                      |  |                                    |  |                |                  |
|------------------------------------|-------------------|-------------|-------------|--------------------------------------|--|------------------------------------|--|----------------|------------------|
| Date of Tests                      | Tissue Temp. (°C) | Tissue Type | Freq. (MHz) | Measured Conductivity $\sigma$ (S/m) | Measured Dielectric Constant, $\epsilon$ | Target Conductivity $\sigma$ (S/m) | Target Dielectric Constant, $\epsilon$ | % dev $\sigma$ | % dev $\epsilon$ |
| 01/21/2021                         | 22.3              | 750H        | 705         | 0.878                                | 42.008                                   | 0.889                              | 42.174                                 | -1.24          | -0.39            |
|                                    |                   |             | 710         | 0.883                                | 41.868                                   | 0.890                              | 42.148                                 | -0.79          | -0.66            |
|                                    |                   |             | 750         | 0.923                                | 41.328                                   | 0.893                              | 41.940                                 | 3.36           | -1.46            |
| 01/19/2021                         | 21.9              | 835H        | 820         | 0.867                                | 42.051                                   | 0.899                              | 41.577                                 | -3.56          | 1.14             |
|                                    |                   |             | 835         | 0.886                                | 41.904                                   | 0.900                              | 41.500                                 | -1.56          | 0.97             |
|                                    |                   |             | 850         | 0.897                                | 41.709                                   | 0.916                              | 41.500                                 | -2.07          | 0.50             |
| 01/22/2021                         | 21.5              | 1800H       | 1710        | 1.335                                | 41.784                                   | 1.348                              | 40.144                                 | -0.96          | 4.09             |
|                                    |                   |             | 1750        | 1.374                                | 41.585                                   | 1.371                              | 40.080                                 | 0.22           | 3.75             |
|                                    |                   |             | 1800        | 1.438                                | 41.368                                   | 1.400                              | 40.000                                 | 2.71           | 3.42             |
| 01/28/2021                         | 21.4              | 1800H       | 1710        | 1.335                                | 41.886                                   | 1.348                              | 40.144                                 | -0.96          | 4.34             |
|                                    |                   |             | 1750        | 1.377                                | 41.726                                   | 1.371                              | 40.080                                 | 0.44           | 4.11             |
|                                    |                   |             | 1800        | 1.433                                | 41.487                                   | 1.400                              | 40.000                                 | 2.36           | 3.72             |
| 01/20/2021                         | 20.6              | 1900H       | 1850        | 1.386                                | 41.171                                   | 1.400                              | 40.000                                 | -1.00          | 2.93             |
|                                    |                   |             | 1900        | 1.452                                | 40.924                                   | 1.400                              | 40.000                                 | 3.71           | 2.31             |
|                                    |                   |             | 1910        | 1.450                                | 40.910                                   | 1.400                              | 40.000                                 | 3.57           | 2.27             |
| 01/21/2021                         | 21.3              | 1900H       | 1850        | 1.386                                | 41.312                                   | 1.400                              | 40.000                                 | -1.00          | 3.28             |
|                                    |                   |             | 1900        | 1.450                                | 41.060                                   | 1.400                              | 40.000                                 | 3.57           | 2.65             |
|                                    |                   |             | 1910        | 1.446                                | 41.034                                   | 1.400                              | 40.000                                 | 3.29           | 2.59             |
| 01/28/2021                         | 21.2              | 2600H       | 2500        | 1.926                                | 40.703                                   | 1.855                              | 39.140                                 | 3.83           | 3.99             |
|                                    |                   |             | 2600        | 2.055                                | 40.285                                   | 1.964                              | 39.010                                 | 4.63           | 3.27             |
|                                    |                   |             | 2690        | 2.134                                | 40.230                                   | 2.062                              | 38.894                                 | 3.49           | 3.43             |
| 01/29/2021                         | 22.0              | 2600H       | 2500        | 1.929                                | 41.094                                   | 1.855                              | 39.140                                 | 3.99           | 4.99             |
|                                    |                   |             | 2600        | 2.046                                | 40.687                                   | 1.964                              | 39.010                                 | 4.18           | 4.30             |
|                                    |                   |             | 2690        | 2.152                                | 40.276                                   | 2.062                              | 38.894                                 | 4.36           | 3.55             |
| 01/27/2021                         | 20.7              | 3700H~3970  | 3700        | 3.151                                | 37.474                                   | 3.118                              | 37.700                                 | 1.06           | -0.60            |
|                                    |                   |             | 3750        | 3.195                                | 37.619                                   | 3.169                              | 37.640                                 | 0.82           | -0.06            |
|                                    |                   |             | 3800        | 3.219                                | 37.612                                   | 3.220                              | 37.590                                 | -0.03          | 0.06             |
|                                    |                   |             | 3900        | 3.312                                | 37.551                                   | 3.233                              | 37.470                                 | 2.44           | 0.22             |
|                                    |                   |             | 3970        | 3.308                                | 37.324                                   | 3.394                              | 37.390                                 | -2.53          | -0.18            |
| 01/27/2021                         | 22.1              | 3700H~3970  | 3700        | 3.143                                | 37.657                                   | 3.118                              | 37.700                                 | 0.80           | -0.11            |
|                                    |                   |             | 3750        | 3.189                                | 37.641                                   | 3.169                              | 37.640                                 | 0.63           | 0.00             |
|                                    |                   |             | 3800        | 3.241                                | 37.721                                   | 3.220                              | 37.590                                 | 0.65           | 0.35             |
|                                    |                   |             | 3900        | 3.317                                | 37.637                                   | 3.233                              | 37.470                                 | 2.60           | 0.45             |
|                                    |                   |             | 3970        | 3.325                                | 37.474                                   | 3.394                              | 37.390                                 | -2.03          | 0.22             |
| 02/24/2021                         | 22.3              | 2600H       | 2500        | 1.924                                | 40.130                                   | 1.855                              | 39.140                                 | 3.72%          | 2.53%            |
|                                    |                   |             | 2600        | 2.044                                | 39.727                                   | 1.964                              | 39.010                                 | 4.07%          | 1.84%            |
|                                    |                   |             | 2690        | 2.110                                | 38.104                                   | 2.062                              | 38.894                                 | 2.33%          | -2.03%           |
| 02/24/2021                         | 21.9              | 2600H       | 2500        | 1.896                                | 40.127                                   | 1.855                              | 39.140                                 | 2.21%          | 2.52%            |
|                                    |                   |             | 2600        | 2.006                                | 39.766                                   | 1.964                              | 39.010                                 | 2.14%          | 1.94%            |
|                                    |                   |             | 2690        | 2.104                                | 39.333                                   | 2.062                              | 38.894                                 | 2.04%          | 1.13%            |

### 12.2 System Verification

Input Power: 50 mW

| Freq. [MHz] | Date       | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR <sub>1g</sub> (SPEAG) [W/kg] | 50mW Measured SAR <sub>1g</sub> [W/kg] | 1 W Normalized SAR <sub>1g</sub> [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|---|--|---|---------------|-----------|
| 750         | 01/05/2021 | 3903        | 1014         | Head   | 18.7            | 18.5              | 8.39  | 0.420                                  | 8.40                                    | + 0.12        | ± 10      |
| 750         | 01/08/2021 | 3903        |              | Head   | 18.6            | 18.5              | 8.39  | 0.418                                  | 8.36                                    | - 0.36        | ± 10      |
| 750         | 01/12/2021 | 1630        |              | Head   | 20.5            | 20.4              | 8.39  | 0.428                                  | 8.56                                    | + 2.03        | ± 10      |
| 750         | 01/13/2021 | 1630        |              | Head   | 21.0            | 20.9              | 8.39  | 0.391                                  | 7.82                                    | - 6.79        | ± 10      |
| 750         | 01/29/2021 | 3968        |              | Head   | 22.0            | 21.9              | 8.39  | 0.432                                  | 8.64                                    | + 2.98        | ± 10      |
| 835         | 01/07/2021 | 1630        | 4d165        | Head   | 22.0            | 21.9              | 9.56  | 0.507                                  | 10.14                                   | + 6.07        | ± 10      |
| 835         | 01/06/2021 | 1630        |              | Head   | 22.0            | 21.8              | 9.56  | 0.510                                  | 10.20                                   | + 6.69        | ± 10      |
| 835         | 01/04/2021 | 3903        |              | Head   | 19.1            | 18.9              | 9.56  | 0.506                                  | 10.12                                   | + 5.86        | ± 10      |
| 835         | 12/31/2020 | 3903        |              | Head   | 22.2            | 22.0              | 9.56  | 0.504                                  | 10.08                                   | + 5.44        | ± 10      |
| 835         | 01/14/2021 | 1630        |              | Head   | 20.5            | 20.4              | 9.56  | 0.508                                  | 10.16                                   | + 6.28        | ± 10      |
| 1 800       | 01/27/2021 | 3903        | 2d007        | Head   | 22.0            | 21.9              | 38.1  | 2.00                                   | 40.0                                    | + 4.99        | ± 10      |
| 1 800       | 02/07/2021 | 3968        |              | Head   | 22.4            | 22.3              | 38.1  | 1.83                                   | 36.6                                    | - 3.94        | ± 10      |
| 1 800       | 01/07/2021 | 7622        |              | Head   | 19.7            | 19.6              | 38.1  | 2.03                                   | 40.6                                    | + 6.56        | ± 10      |
| 1 800       | 01/26/2021 | 3903        |              | Head   | 19.2            | 19.1              | 38.1  | 2.05                                   | 41.0                                    | + 7.61        | ± 10      |
| 1 900       | 12/31/2020 | 7622        | 5d061        | Head   | 20.4            | 20.3              | 39.9  | 2.13                                   | 42.6                                    | + 6.77        | ± 10      |
| 1 900       | 01/04/2021 | 1630        |              | Head   | 22.0            | 21.9              | 39.9  | 1.96                                   | 39.2                                    | - 1.75        | ± 10      |
| 1 900       | 01/05/2021 | 1630        |              | Head   | 21.0            | 20.9              | 39.9  | 2.02                                   | 40.4                                    | + 1.25        | ± 10      |
| 1 900       | 01/06/2021 | 7622        |              | Head   | 22.5            | 22.3              | 39.9  | 2.13                                   | 42.6                                    | + 6.77        | ± 10      |
| 1 900       | 01/25/2021 | 3903        | 1230         | Head   | 19.1            | 19.0              | 40.4  | 1.99                                   | 39.8                                    | - 1.49        | ± 10      |
| 1 900       | 02/01/2021 | 3968        |              | Head   | 22.4            | 22.2              | 40.4  | 1.91                                   | 38.2                                    | - 5.45        | ± 10      |
| 1 900       | 02/06/2021 | 3968        |              | Head   | 22.4            | 22.3              | 40.4  | 1.90                                   | 38.0                                    | - 5.94        | ± 10      |
| 2 300       | 02/06/2021 | 3797        | 1010         | Head   | 22.2            | 22.0              | 48.2  | 2.49                                   | 49.8                                    | + 3.32        | ± 10      |
| 2 300       | 01/19/2021 | 3797        |              | Head   | 20.7            | 20.5              | 48.2  | 2.55                                   | 51.0                                    | + 5.81        | ± 10      |
| 2 300       | 01/20/2021 | 3797        |              | Head   | 21.2            | 21.1              | 48.2  | 2.58                                   | 51.6                                    | + 7.05        | ± 10      |
| 2 450       | 02/06/2021 | 3968        | 1049         | Head   | 21.6            | 21.4              | 51.4  | 2.65                                   | 53.0                                    | + 3.11        | ± 10      |
| 2 450       | 01/21/2021 | 3797        |              | Head   | 21.8            | 21.5              | 51.4  | 2.54                                   | 50.8                                    | - 1.17        | ± 10      |
| 2 600       | 02/04/2021 | 3797        | 1015         | Head   | 21.4            | 21.2              | 56.7  | 2.82                                   | 56.4                                    | - 0.53        | ± 10      |
| 2 600       | 02/03/2021 | 3797        |              | Head   | 22.7            | 22.5              | 56.7  | 2.83                                   | 56.6                                    | - 0.18        | ± 10      |
| 2 600       | 02/02/2021 | 3797        |              | Head   | 20.7            | 20.5              | 56.7  | 2.83                                   | 56.6                                    | - 0.18        | ± 10      |
| 2 600       | 02/08/2021 | 3797        |              | Head   | 21.8            | 21.6              | 56.7  | 2.86                                   | 57.2                                    | + 0.88        | ± 10      |
| 3 500       | 01/26/2021 | 3968        | 1040         | Head   | 22.5            | 22.3              | 64.5  | 3.36                                   | 67.2                                    | + 4.19        | ± 10      |
| 5 250       | 02/02/2021 | 3968        | 1253         | Head   | 22.4            | 22.1              | 79.7  | 3.85                                   | 77.0                                    | - 3.39        | ± 10      |
| 5 600       | 02/03/2021 | 3968        |              | Head   | 22.0            | 21.8              | 82.2  | 3.96                                   | 79.2                                    | - 3.65        | ± 10      |
| 5 750       | 02/03/2021 | 3968        |              | Head   | 22.0            | 21.8              | 79.6  | 4.28                                   | 85.6                                    | + 7.54        | ± 10      |
| 5 250       | 02/04/2021 | 3863        | 1253         | Head   | 20.5            | 20.3              | 79.7  | 3.98                                   | 79.6                                    | - 0.13        | ± 10      |
| 5 600       | 02/04/2021 | 3863        |              | Head   | 20.5            | 20.3              | 82.2  | 4.16                                   | 83.2                                    | + 1.22        | ± 10      |
| 5 750       | 02/06/2021 | 3863        |              | Head   | 21.5            | 21.3              | 79.6  | 4.09                                   | 81.8                                    | + 2.76        | ± 10      |

**5G NR SUB 6**

| Freq. [MHz] | Date       | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR <sub>1g</sub> (SPEAG) [W/kg] | 50mW Measured SAR <sub>1g</sub> [W/kg] | 1 W Normalized SAR <sub>1g</sub> [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|---|--|---|---------------|-----------|
| 750         | 01/21/2021 | 3968        | 1014         | Head   | 22.5            | 22.3              | 8.39  | 0.398                                  | 7.96                                    | - 5.13        | ± 10      |
| 835         | 01/19/2021 | 3968        | 4d165        | Head   | 22.1            | 21.9              | 9.56  | 0.462                                  | 9.24                                    | - 3.35        | ± 10      |
| 1 800       | 01/22/2021 | 3076        | 2d007        | Head   | 21.3            | 21.5              | 38.1  | 1.97                                   | 39.4                                    | + 3.41        | ± 10      |
| 1 900       | 01/20/2021 | 3076        | 5d061        | Head   | 20.5            | 20.6              | 39.9  | 2.08                                   | 41.6                                    | + 4.26        | ± 10      |
| 2 600       | 01/28/2021 | 3968        | 1015         | Head   | 21.3            | 21.2              | 56.7  | 2.92                                   | 58.4                                    | + 3.00        | ± 10      |
| 3 700       | 01/27/2021 | 7622        | 1066         | Head   | 20.7            | 20.7              | 65.4  | 3.56                                   | 71.2                                    | + 8.87        | ± 10      |
| 3 900       | 01/27/2021 | 7622        | 1019         | Head   | 20.7            | 20.7              | 70.7  | 3.40                                   | 68.0                                    | - 3.82        | ± 10      |
| 2 600       | 02/24/2021 | 3863        | 1015         | Head   | 22.4            | 22.3              | 56.7  | 2.78                                   | 55.6                                    | - 1.94        | ± 10      |

**System Verification Results – Extremity SAR**

Input Power: 50 mW

| Freq. [MHz] | Date       | Probe (S/N) | Dipole (S/N) | Liquid | Amb. Temp. [°C] | Liquid Temp. [°C] | 1 W Target SAR <sub>10g</sub> (SPEAG) [W/kg] | 50mW Measured SAR <sub>10g</sub> [W/kg] | 1 W Normalized SAR <sub>10g</sub> [W/kg] | Deviation [%] | Limit [%] |
|-------------|------------|-------------|--------------|--------|-----------------|-------------------|--|---|--|---------------|-----------|
| 1 800       | 01/28/2021 | 3076        | 2d007        | Head   | 21.3            | 21.4              | 19.7   | 1.06                                    | 21.2                                     | + 7.61        | ± 10      |
| 1 900       | 01/21/2021 | 3076        | 5d061        | Head   | 21.1            | 21.3              | 20.7   | 1.06                                    | 21.2                                     | + 2.42        | ± 10      |
| 2 300       | 02/08/2021 | 7370        | 1010         | Head   | 22.0            | 21.8              | 23.5   | 1.09                                    | 21.8                                     | - 7.23        | ± 10      |
| 2 600       | 02/08/2021 | 3968        | 1015         | Head   | 22.3            | 22.2              | 25.4   | 1.23                                    | 24.6                                     | - 3.15        | ± 10      |
| 2 600       | 02/08/2021 | 3797        | 1015         | Head   | 21.8            | 21.6              | 25.4   | 1.25                                    | 25.0                                     | - 1.57        | ± 10      |
| 2 600       | 01/29/2021 | 3968        | 1015         | Head   | 22.0            | 22.0              | 25.4   | 1.34                                    | 26.8                                     | + 5.51        | ± 10      |
| 3 700       | 02/04/2021 | 7622        | 1066         | Head   | 22.1            | 22.1              | 24.0   | 1.26                                    | 25.2                                     | + 5.00        | ± 10      |
| 3 900       | 02/04/2021 | 7622        | 1019         | Head   | 22.1            | 22.1              | 24.4   | 1.15                                    | 23.0                                     | - 5.74        | ± 10      |
| 5 250       | 02/04/2021 | 3863        | 1253         | Head   | 20.5            | 20.3              | 22.8   | 1.22                                    | 24.4                                     | + 7.02        | ± 10      |
| 5 600       | 02/04/2021 | 3863        |              | Head   | 20.5            | 20.3              | 23.5   | 1.27                                    | 25.4                                     | + 8.09        | ± 10      |
| 2 600       | 02/24/2021 | 7622        | 1015         | Head   | 22.1            | 21.9              | 25.4   | 1.33                                    | 26.6                                     | + 4.72        | ± 10      |

**12.3 System Verification Procedure**

SAR measurement was prior to assessment; the system is verified to the ± 10 % of the specifications at each frequency band by using the system verification kit. (Graphic Plots Attached)

- Cabling the system, using the verification kit equipment.
- Generate about 50 mW Input level from the signal generator to the Dipole Antenna.
- Dipole antenna was placed below the flat phantom.
- The measured one-gram SAR at the surface of the phantom above the dipole feed-point should be within 10 % of the target reference value.
- The results are normalized to 1 W input power.

Note;

SAR Verification was performed according to the FCC KDB 865664 D01v01r04.

### 13. SAR Test Data Summary

#### 13.1 SAR Measurement Results

| CDMA BC10(\$90S) Head SAR _ Ant. #1   |     |           |             |               |             |             |  |            |              |                |               |          |
|---|-----|-----------|-------------|---------------|-------------|-------------|--|------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode      |             | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |           |             | (dB)          | (dB)        | (dB)        |  |            | (W/kg)       |                | (W/kg)        |          |
| 820   | 560 | CDMA BC10 | RC3 / SO55  | 25.5          | 24.06       | 0.12        | Left Cheek                               | 1:1        | 0.166        | 1.393          | 0.231         | -        |
| 820   | 560 | CDMA BC10 | RC3 / SO55  | 25.5          | 24.06       | -0.13       | Left Tilt                                | 1:1        | 0.074        | 1.393          | 0.103         | -        |
| 820   | 560 | CDMA BC10 | RC3 / SO55  | 25.5          | 24.06       | 0.17        | Right Cheek                              | 1:1        | 0.200        | 1.393          | <b>0.279</b>  | 1        |
| 820   | 560 | CDMA BC10 | RC3 / SO55  | 25.5          | 24.06       | -0.16       | Right Tilt                               | 1:1        | 0.090        | 1.393          | 0.125         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev. A | 25.5          | 24.06       | 0.11        | Left Cheek                               | 1:1        | 0.151        | 1.393          | 0.210         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev. A | 25.5          | 24.06       | -0.14       | Left Tilt                                | 1:1        | 0.069        | 1.393          | 0.096         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev. A | 25.5          | 24.06       | 0.15        | Right Cheek                              | 1:1        | 0.187        | 1.393          | 0.260         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev. A | 25.5          | 24.06       | -0.18       | Right Tilt                               | 1:1        | 0.078        | 1.393          | 0.109         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |           |             |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |              |                |               |          |

| CDMA BC0(\$22H) Head SAR _ Ant. #1  |     |          |             |               |             |             |  |            |              |                |               |          |
|---|-----|----------|-------------|---------------|-------------|-------------|--|------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     |             | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |             | (dB)          | (dB)        | (dB)        |  |            | (W/kg)       |                | (W/kg)        |          |
| 836.52  | 384 | CDMA BC0 | RC3 / SO55  | 25.5          | 23.79       | 0.17        | Left Cheek                               | 1:1        | 0.070        | 1.483          | 0.104         | -        |
| 836.52  | 384 | CDMA BC0 | RC3 / SO55  | 25.5          | 23.79       | -0.18       | Left Tilt                                | 1:1        | 0.048        | 1.483          | 0.071         | -        |
| 836.52  | 384 | CDMA BC0 | RC3 / SO55  | 25.5          | 23.79       | 0.16        | Right Cheek                              | 1:1        | 0.096        | 1.483          | 0.142         | -        |
| 836.52  | 384 | CDMA BC0 | RC3 / SO55  | 25.5          | 23.79       | -0.19       | Right Tilt                               | 1:1        | 0.045        | 1.483          | 0.067         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev. A | 25.5          | 23.81       | 0.14        | Left Cheek                               | 1:1        | 0.077        | 1.476          | 0.114         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev. A | 25.5          | 23.81       | -0.16       | Left Tilt                                | 1:1        | 0.044        | 1.476          | 0.065         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev. A | 25.5          | 23.81       | 0.16        | Right Cheek                              | 1:1        | 0.114        | 1.476          | <b>0.168</b>  | 2        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev. A | 25.5          | 23.81       | -0.13       | Right Tilt                               | 1:1        | 0.044        | 1.476          | 0.065         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |             |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |              |                |               |          |

| PCS CDMA Head SAR _ Ant. #1   |     |          |             |               |             |             |  |            |              |                |               |          |
|---|-----|----------|-------------|---------------|-------------|-------------|--|------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     |             | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |             | (dB)          | (dB)        | (dB)        |  |            | (W/kg)       |                | (W/kg)        |          |
| 1880.0  | 600 | PCS CDMA | RC3 / SO55  | 25.0          | 23.30       | -0.18       | Left Cheek                               | 1:1        | 0.191        | 1.479          | <b>0.282</b>  | 3        |
| 1880.0  | 600 | PCS CDMA | RC3 / SO55  | 25.0          | 23.30       | 0.06        | Left Tilt                                | 1:1        | 0.105        | 1.479          | 0.155         | -        |
| 1880.0  | 600 | PCS CDMA | RC3 / SO55  | 25.0          | 23.30       | -0.14       | Right Cheek                              | 1:1        | 0.151        | 1.479          | 0.223         | -        |
| 1880.0  | 600 | PCS CDMA | RC3 / SO55  | 25.0          | 23.30       | 0.14        | Right Tilt                               | 1:1        | 0.077        | 1.479          | 0.114         | -        |
| 1880.0  | 600 | PCS CDMA | EVDO Rev. A | 25.0          | 23.31       | -0.15       | Left Cheek                               | 1:1        | 0.176        | 1.476          | 0.260         | -        |
| 1880.0  | 600 | PCS CDMA | EVDO Rev. A | 25.0          | 23.31       | 0.10        | Left Tilt                                | 1:1        | 0.095        | 1.476          | 0.140         | -        |
| 1880.0  | 600 | PCS CDMA | EVDO Rev. A | 25.0          | 23.31       | 0.18        | Right Cheek                              | 1:1        | 0.144        | 1.476          | 0.213         | -        |
| 1880.0  | 600 | PCS CDMA | EVDO Rev. A | 25.0          | 23.31       | 0.14        | Right Tilt                               | 1:1        | 0.057        | 1.476          | 0.084         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |             |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |              |                |               |          |

| GSM 850 Head SAR _ Ant. #1  |     |          |               |             |             |               |  |              |                |               |          |  |
|---|-----|----------|---------------|-------------|-------------|---------------|--|--------------|----------------|---------------|----------|--|
| Frequency   |     | Mode     | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |  |
| Mhz   | Ch. |          | (dB)          | (dB)        | (dB)        |               |  | (W/kg)       |                | (W/kg)        |          |  |
| 836.6   | 190 | GSM      | 34.0          | 32.57       | -0.11       | Left Cheek    | 1:8.3                                    | 0.208        | 1.390          | 0.289         | -        |  |
| 836.6   | 190 | GSM      | 34.0          | 32.57       | 0.14        | Left Tilt     | 1:8.3                                    | 0.092        | 1.390          | 0.128         | -        |  |
| 836.6   | 190 | GSM      | 34.0          | 32.57       | -0.19       | Right Cheek   | 1:8.3                                    | 0.274        | 1.390          | 0.381         | -        |  |
| 836.6   | 190 | GSM      | 34.0          | 32.57       | 0.10        | Right Tilt    | 1:8.3                                    | 0.132        | 1.390          | 0.183         | -        |  |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | 0.08        | Left Cheek    | 1:2.074                                  | 0.298        | 1.346          | 0.401         | -        |  |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.08       | Left Tilt     | 1:2.074                                  | 0.124        | 1.346          | 0.167         | -        |  |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.19       | Right Cheek   | 1:2.074                                  | 0.376        | 1.346          | <b>0.506</b>  | 4        |  |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.13       | Right Tilt    | 1:2.074                                  | 0.182        | 1.346          | 0.245         | -        |  |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |              |                |               |          |  |

**GSM 1900 Head SAR \_ Ant. #1**

| Frequency   |     | Mode     | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-----|----------|---------------|-------------|-------------|---------------|--|--------------|----------------|---------------|----------|
| Mhz   | Ch. |          | (dB)          | (dB)        | (dB)        |               |  | (W/kg)       |                | (W/kg)        |          |
| 1 880   | 661 | GSM      | 31.0          | 29.43       | 0.16        | Left Cheek    | 1:8.3                                    | 0.084        | 1.435          | 0.121         | -        |
| 1 880   | 661 | GSM      | 31.0          | 29.43       | -0.15       | Left Tilt     | 1:8.3                                    | 0.030        | 1.435          | 0.043         | -        |
| 1 880   | 661 | GSM      | 31.0          | 29.43       | 0.08        | Right Cheek   | 1:8.3                                    | 0.061        | 1.435          | 0.088         | -        |
| 1 880   | 661 | GSM      | 31.0          | 29.43       | -0.10       | Right Tilt    | 1:8.3                                    | 0.038        | 1.435          | 0.055         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | 0.07        | Left Cheek    | 1:2.075                                  | 0.127        | 1.361          | <b>0.173</b>  | 5        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.16       | Left Tilt     | 1:2.075                                  | 0.046        | 1.361          | 0.063         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.17       | Right Cheek   | 1:2.075                                  | 0.096        | 1.361          | 0.131         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.10       | Right Tilt    | 1:2.075                                  | 0.051        | 1.361          | 0.069         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |              |                |               |          |

**UMTS 850 Head SAR \_ Ant. #1**

| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|------|------|---------------|-------------|-------------|---------------|--|--------------|----------------|---------------|----------|
| Mhz   | Ch.  |      | (dB)          | (dB)        | (dB)        |               |  | (W/kg)       |                | (W/kg)        |          |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.13       | Left Cheek    | 1:1                                      | 0.234        | 1.271          | 0.297         | -        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.10       | Left Tilt     | 1:1                                      | 0.104        | 1.271          | 0.132         | -        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.12       | Right Cheek   | 1:1                                      | 0.273        | 1.271          | <b>0.347</b>  | 6        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.10       | Right Tilt    | 1:1                                      | 0.142        | 1.271          | 0.180         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |              |                |               |          |

**UMTS 1700 Head SAR \_ Ant.1**

| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|------|------|---------------|-------------|-------------|---------------|--|--------------|----------------|---------------|----------|
| Mhz   | Ch.  |      | (dB)          | (dB)        | (dB)        |               |  | (W/kg)       |                | (W/kg)        |          |
| 1 732.4   | 1412 | RMC  | 25.0          | 24.15       | 0.01        | Left Cheek    | 1:1                                      | 0.184        | 1.216          | 0.224         | -        |
| 1 732.4   | 1412 | RMC  | 25.0          | 24.15       | -0.02       | Left Tilt     | 1:1                                      | 0.105        | 1.216          | 0.128         | -        |
| 1 732.4   | 1412 | RMC  | 25.0          | 24.15       | -0.12       | Right Cheek   | 1:1                                      | 0.207        | 1.216          | <b>0.252</b>  | 7        |
| 1 732.4   | 1412 | RMC  | 25.0          | 24.15       | 0.09        | Right Tilt    | 1:1                                      | 0.112        | 1.216          | 0.136         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |              |                |               |          |

| UMTS 1900 Head SAR _ Ant. #1  |      |      |               |             |             |  |            |              |                |               |          |      |
|---|------|------|---------------|-------------|-------------|--|------------|--------------|----------------|---------------|----------|------|
| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |      |
| Mhz   | Ch.  |      |               |             |             |  |            |              |                |               |          | (dB) |
| 1 880   | 9400 | RMC  | 24.5          | 22.98       | 0.16        | Left Cheek                               | 1:1        | 0.187        | 1.419          | <b>0.265</b>  | 8        |      |
| 1 880   | 9400 | RMC  | 24.5          | 22.98       | -0.18       | Left Tilt                                | 1:1        | 0.052        | 1.419          | 0.074         | -        |      |
| 1 880   | 9400 | RMC  | 24.5          | 22.98       | -0.03       | Right Cheek                              | 1:1        | 0.140        | 1.419          | 0.199         | -        |      |
| 1 880   | 9400 | RMC  | 24.5          | 22.98       | -0.18       | Right Tilt                               | 1:1        | 0.059        | 1.419          | 0.084         | -        |      |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |              |                |               |          |      |

| LTE Band 7 Head SAR _RCV On _ Ant. #2   |       |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.07       | 0.16        | Left Cheek                               | 0   | 1       | 49        | 1:1        | 0.297        | 1.239          | 0.368         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.21       | 0.09        | Left Cheek                               | 0   | 50      | 49        | 1:1        | 0.234        | 1.199          | 0.281         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.07       | 0.17        | Left Tilt                                | 0   | 1       | 49        | 1:1        | 0.134        | 1.239          | 0.166         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.21       | 0.18        | Left Tilt                                | 0   | 50      | 25        | 1:1        | 0.135        | 1.199          | 0.162         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.07       | -0.14       | Right Cheek                              | 0   | 1       | 49        | 1:1        | 0.407        | 1.239          | 0.504         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.21       | -0.04       | Right Cheek                              | 0   | 50      | 25        | 1:1        | 0.415        | 1.199          | 0.498         | -        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.07       | 0.10        | Right Tilt                               | 0   | 1       | 49        | 1:1        | 0.459        | 1.239          | <b>0.569</b>  | 9        |
| 2 560   | 21350 | QPSK | 20         | 22.0          | 21.21       | 0.10        | Right Tilt                               | 0   | 50      | 25        | 1:1        | 0.360        | 1.199          | 0.432         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |              |                |               |          |

\* Power reduction condition during Receiver\_ON

| LTE Band 12 Head SAR _ Ant.1  |       |      |            |               |             |             |  |     |         |           |            |           |                |              |          |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |           |                |              |          |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | 0.15        | Left Cheek                               | 0   | 1       | 0         | 1:1        | 0.237     | 1.026          | 0.243        | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | 0.17        | Left Cheek                               | 1   | 25      | 0         | 1:1        | 0.183     | 1.038          | 0.190        | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.82       | -0.11       | Left Tilt                                | 0   | 1       | 0         | 1:1        | 0.107     | 1.026          | 0.110        | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | 0.09        | Left Tilt                                | 1   | 25      | 0         | 1:1        | 0.091     | 1.038          | 0.094        | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.82       | 0.18        | Right Cheek                              | 0   | 1       | 0         | 1:1        | 0.288     | 1.026          | <b>0.295</b> | 10       |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | 0.14        | Right Cheek                              | 1   | 25      | 0         | 1:1        | 0.228     | 1.038          | 0.237        | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.82       | -0.13       | Right Tilt                               | 0   | 1       | 0         | 1:1        | 0.145     | 1.026          | 0.149        | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | -0.10       | Right Tilt                               | 1   | 25      | 0         | 1:1        | 0.114     | 1.038          | 0.118        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |           |                |              |          |



| LTE Band 13 Head SAR_ Ant. #1   |       |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
| 782   | 23230 | QPSK | 10         | 25.0          | 24.36       | 0.04        | Left Cheek    | 0  | 1       | 0         | 1:1        | 0.289     | 1.159          | 0.335        | -        |
| 782   | 23230 | QPSK | 10         | 24.0          | 23.34       | 0.15        | Left Cheek    | 1  | 25      | 24        | 1:1        | 0.222     | 1.164          | 0.258        | -        |
| 782   | 23230 | QPSK | 10         | 25.0          | 24.36       | -0.04       | Left Tilt     | 0  | 1       | 0         | 1:1        | 0.130     | 1.159          | 0.151        | -        |
| 782   | 23230 | QPSK | 10         | 24.0          | 23.34       | -0.12       | Left Tilt     | 1  | 25      | 24        | 1:1        | 0.117     | 1.164          | 0.136        | -        |
| 782   | 23230 | QPSK | 10         | 25.0          | 24.36       | 0.13        | Right Cheek   | 0  | 1       | 0         | 1:1        | 0.329     | 1.159          | <b>0.381</b> | 11       |
| 782   | 23230 | QPSK | 10         | 24.0          | 23.34       | 0.10        | Right Cheek   | 1  | 25      | 24        | 1:1        | 0.254     | 1.164          | 0.296        | -        |
| 782   | 23230 | QPSK | 10         | 25.0          | 24.36       | -0.13       | Right Tilt    | 0  | 1       | 0         | 1:1        | 0.162     | 1.159          | 0.188        | -        |
| 782   | 23230 | QPSK | 10         | 24.0          | 23.34       | -0.18       | Right Tilt    | 1  | 25      | 24        | 1:1        | 0.145     | 1.164          | 0.169        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |              |          |

| LTE Band 14 Head SAR_ Ant. #1   |       |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
| 793   | 23330 | QPSK | 10         | 25.0          | 24.34       | 0.16        | Left Cheek    | 0  | 1       | 24        | 1:1        | 0.208     | 1.164          | 0.242        | -        |
| 793   | 23330 | QPSK | 10         | 24.0          | 23.30       | 0.18        | Left Cheek    | 1  | 25      | 12        | 1:1        | 0.181     | 1.175          | 0.213        | -        |
| 793   | 23330 | QPSK | 10         | 25.0          | 24.34       | -0.10       | Left Tilt     | 0  | 1       | 24        | 1:1        | 0.101     | 1.164          | 0.118        | -        |
| 793   | 23330 | QPSK | 10         | 24.0          | 23.30       | -0.15       | Left Tilt     | 1  | 25      | 12        | 1:1        | 0.080     | 1.175          | 0.094        | -        |
| 793   | 23330 | QPSK | 10         | 25.0          | 24.34       | 0.06        | Right Cheek   | 0  | 1       | 24        | 1:1        | 0.241     | 1.164          | <b>0.281</b> | 12       |
| 793   | 23330 | QPSK | 10         | 24.0          | 23.30       | 0.12        | Right Cheek   | 1  | 25      | 12        | 1:1        | 0.186     | 1.175          | 0.219        | -        |
| 793   | 23330 | QPSK | 10         | 25.0          | 24.34       | -0.12       | Right Tilt    | 0  | 1       | 24        | 1:1        | 0.189     | 1.164          | 0.220        | -        |
| 793   | 23330 | QPSK | 10         | 24.0          | 23.30       | -0.18       | Right Tilt    | 1  | 25      | 12        | 1:1        | 0.147     | 1.175          | 0.173        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |              |          |

| LTE Band 25 Head SAR_ Ant. #1   |       |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
| 1 860   | 26140 | QPSK | 20         | 24.5          | 23.94       | 0.19        | Left Cheek    | 0  | 1       | 49        | 1:1        | 0.165     | 1.138          | 0.188        | -        |
| 1 905   | 26590 | QPSK | 20         | 23.5          | 23.00       | 0.18        | Left Cheek    | 1  | 50      | 0         | 1:1        | 0.171     | 1.122          | <b>0.192</b> | 13       |
| 1 860   | 26140 | QPSK | 20         | 24.5          | 23.94       | 0.06        | Left Tilt     | 0  | 1       | 49        | 1:1        | 0.080     | 1.138          | 0.091        | -        |
| 1 905   | 26590 | QPSK | 20         | 23.5          | 23.00       | 0.13        | Left Tilt     | 1  | 50      | 0         | 1:1        | 0.070     | 1.122          | 0.079        | -        |
| 1 860   | 26140 | QPSK | 20         | 24.5          | 23.94       | 0.11        | Right Cheek   | 0  | 1       | 49        | 1:1        | 0.130     | 1.138          | 0.148        | -        |
| 1 905   | 26590 | QPSK | 20         | 23.5          | 23.00       | 0.15        | Right Cheek   | 1  | 50      | 0         | 1:1        | 0.145     | 1.122          | 0.163        | -        |
| 1 860   | 26140 | QPSK | 20         | 24.5          | 23.94       | 0.18        | Right Tilt    | 0  | 1       | 49        | 1:1        | 0.061     | 1.138          | 0.069        | -        |
| 1 905   | 26590 | QPSK | 20         | 23.5          | 23.00       | 0.10        | Right Tilt    | 1  | 50      | 0         | 1:1        | 0.070     | 1.122          | 0.079        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |              |          |



| LTE Band 26 Head SAR _ Ant. #1  |       |      |            |               |             |             |               |  |         |           |            |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |              |                |               |          |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | 0.08        | Left Cheek    | 0  | 1       | 0         | 1:1        | 0.179        | 1.028          | 0.184         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | 0.19        | Left Cheek    | 1  | 36      | 0         | 1:1        | 0.148        | 1.074          | 0.159         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.18       | Left Tilt     | 0  | 1       | 0         | 1:1        | 0.090        | 1.028          | 0.093         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.18       | Left Tilt     | 1  | 36      | 0         | 1:1        | 0.074        | 1.074          | 0.079         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | 0.10        | Right Cheek   | 0  | 1       | 0         | 1:1        | 0.238        | 1.028          | <b>0.245</b>  | 14       |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | 0.17        | Right Cheek   | 1  | 36      | 0         | 1:1        | 0.190        | 1.074          | 0.204         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.06       | Right Tilt    | 0  | 1       | 0         | 1:1        | 0.122        | 1.028          | 0.125         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.14       | Right Tilt    | 1  | 36      | 0         | 1:1        | 0.098        | 1.074          | 0.105         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |              |                |               |          |

| LTE Band 30 Head SAR _RCV On_ Ant. #2   |       |      |            |               |             |             |               |  |         |           |            |              |                |              |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|--------------|----------------|--------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR    | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |              |                |              |          |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.88       | 0.15        | Left Cheek    | 0  | 1       | 24        | 1:1        | 0.147        | 1.153          | 0.169        | -        |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.84       | 0.15        | Left Cheek    | 0  | 25      | 12        | 1:1        | 0.139        | 1.164          | 0.162        | -        |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.88       | -0.02       | Left Tilt     | 0  | 1       | 24        | 1:1        | 0.120        | 1.153          | 0.138        | -        |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.84       | -0.03       | Left Tilt     | 0  | 25      | 12        | 1:1        | 0.118        | 1.164          | 0.137        | -        |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.88       | -0.14       | Right Cheek   | 0  | 1       | 24        | 1:1        | <b>0.449</b> | 1.153          | 0.518        | 15       |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.84       | -0.05       | Right Cheek   | 0  | 25      | 12        | 1:1        | 0.446        | 1.164          | <b>0.519</b> | 16       |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.88       | 0.03        | Right Tilt    | 0  | 1       | 24        | 1:1        | 0.185        | 1.153          | 0.213        | -        |
| 2 310   | 27710 | QPSK | 10         | 21.5          | 20.84       | -0.03       | Right Tilt    | 0  | 25      | 12        | 1:1        | 0.199        | 1.164          | 0.232        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |              |                |              |          |

\* Power reduction condition during Receiver\_ON

**LTE TDD Band 40 Head SAR\_ Lower frequency range\_ Ant. #2**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.59        | -0.10       | Left Cheek    | 0  | 1       | 24        | 1:1.58     | 0.00853   | 1.384          | 0.012        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.60        | -0.07       | Left Cheek    | 0  | 25      | 24        | 1:1.58     | 0.00971   | 1.380          | 0.013        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.59        | -0.15       | Left Tilt     | 0  | 1       | 24        | 1:1.58     | 0.00611   | 1.384          | 0.008        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.60        | -0.05       | Left Tilt     | 0  | 25      | 24        | 1:1.58     | 0.00582   | 1.380          | 0.008        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.59        | -0.19       | Right Cheek   | 0  | 1       | 24        | 1:1.58     | 0.027     | 1.384          | 0.037        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.60        | 0.09        | Right Cheek   | 0  | 25      | 24        | 1:1.58     | 0.027     | 1.380          | <b>0.037</b> | 17       |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.59        | 0.14        | Right Tilt    | 0  | 1       | 24        | 1:1.58     | 0.011     | 1.384          | 0.015        | -        |
| 2 310   | 38750 | QPSK | 10         | 11.0          | 9.60        | 0.09        | Right Tilt    | 0  | 25      | 24        | 1:1.58     | 0.011     | 1.380          | 0.015        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |              |          |

**LTE TDD Band 40 Head SAR\_ Upper frequency range\_ Ant. #2**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|--------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |              |          |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.75        | 0.16        | Left Cheek    | 0  | 1       | 0         | 1:1.58     | 0.00952   | 1.334          | 0.013        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.66        | -0.16       | Left Cheek    | 0  | 25      | 0         | 1:1.58     | 0.011     | 1.361          | 0.015        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.75        | -0.13       | Left Tilt     | 0  | 1       | 0         | 1:1.58     | 0.00553   | 1.334          | 0.007        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.66        | -0.11       | Left Tilt     | 0  | 25      | 0         | 1:1.58     | 0.00437   | 1.361          | 0.006        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.75        | 0.09        | Right Cheek   | 0  | 1       | 0         | 1:1.58     | 0.031     | 1.334          | 0.041        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.66        | 0.15        | Right Cheek   | 0  | 25      | 0         | 1:1.58     | 0.031     | 1.361          | <b>0.042</b> | 18       |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.75        | -0.12       | Right Tilt    | 0  | 1       | 0         | 1:1.58     | 0.014     | 1.334          | 0.019        | -        |
| 2 355   | 39200 | QPSK | 10         | 11.0          | 9.66        | -0.11       | Right Tilt    | 0  | 25      | 0         | 1:1.58     | 0.014     | 1.361          | 0.019        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |              |          |

| LTE TDD Band 41 Head SAR _RCV On (Power Class 3) _ Ant. #2   |       |      |            |               |             |             |               |  |         |           |            |           |                |            |              |       |
|--|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|-----------|----------------|------------|--------------|-------|
| Frequency  |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR | Plot No.     |       |
| Mhz  | Ch.   |      |            |               |             |             |               |  |         |           |            |           |                |            |              | (MHz) |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | -0.05       | Left Cheek    | 0  | 1       | 0         | 1:1.58     | 0.100     | 1.112          | 0.111      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.16        | Left Cheek    | 0  | 50      | 0         | 1:1.58     | 0.099     | 1.112          | 0.110      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.18        | Left Tilt     | 0  | 1       | 0         | 1:1.58     | 0.071     | 1.112          | 0.079      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.10        | Left Tilt     | 0  | 50      | 0         | 1:1.58     | 0.071     | 1.112          | 0.079      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.19        | Right Cheek   | 0  | 1       | 0         | 1:1.58     | 0.308     | 1.112          | 0.342      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.12        | Right Cheek   | 0  | 50      | 0         | 1:1.58     | 0.310     | 1.112          | 0.345      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | 0.11        | Right Tilt    | 0  | 1       | 0         | 1:1.58     | 0.174     | 1.112          | 0.193      | -            |       |
| 2 593.0  | 40620 | QPSK | 20         | 21.0          | 20.54       | -0.16       | Right Tilt    | 0  | 50      | 0         | 1:1.58     | 0.176     | 1.112          | 0.196      | -            |       |
| <b>Up-link Carrier Aggregation (41C)</b>   |       |      |            |               |             |             |               |  |         |           |            |           |                |            |              |       |
| 2 593.0  | 40620 | QPSK | PCC        | 20            | 21.0        | 20.64       | -0.14         | Right Cheek                              | 0       | 50        | 0          | 1:1.58    | 0.319          | 1.086      | <b>0.346</b> | 19    |
| 2 573.2  | 40422 | QPSK | SCC        | 20            |             |             |               |  |         | 50        | 49         |           |                |            |              |       |
| ANSI/ IEEE C95.1 - 2005- Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Head<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |           |                |            |              |       |

Note: \* Power reduction condition during Receiver\_ON

| LTE TDD Band 48 Head SAR_RCV On_Ant. SUB #4   |       |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.61       | 0.14        | Left Cheek                               | 0   | 1       | 0         | 1:1.58     | 0.177        | 1.377          | 0.244         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.74       | 0.12        | Left Cheek                               | 0   | 50      | 0         | 1:1.58     | 0.183        | 1.337          | 0.245         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.61       | -0.12       | Left Tilt                                | 0   | 1       | 0         | 1:1.58     | 0.207        | 1.377          | 0.285         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.74       | 0.13        | Left Tilt                                | 0   | 50      | 0         | 1:1.58     | 0.210        | 1.337          | 0.281         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.61       | 0.17        | Right Cheek                              | 0   | 1       | 0         | 1:1.58     | 0.328        | 1.377          | 0.452         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.74       | 0.15        | Right Cheek                              | 0   | 50      | 0         | 1:1.58     | 0.330        | 1.337          | 0.441         | -        |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.61       | 0.15        | Right Tilt                               | 0   | 1       | 0         | 1:1.58     | 0.378        | 1.377          | <b>0.521</b>  | 20       |
| 3 560   | 55340 | QPSK | 20         | 19.0          | 17.74       | 0.01        | Right Tilt                               | 0   | 50      | 0         | 1:1.58     | 0.383        | 1.337          | 0.512         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |              |                |               |          |

\* Power reduction condition during Receiver\_ON

| LTE Band 66 Head SAR_Ant. #1  |        |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
|---|--------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |        | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.    |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
| 1 770   | 132572 | QPSK | 20         | 25.0          | 24.24       | 0.11        | Left Cheek                               | 0   | 1       | 99        | 1:1        | 0.134        | 1.191          | 0.160         | -        |
| 1 770   | 132572 | QPSK | 20         | 24.0          | 23.28       | 0.11        | Left Cheek                               | 1   | 50      | 49        | 1:1        | 0.118        | 1.180          | 0.139         | -        |
| 1 770   | 132572 | QPSK | 20         | 25.0          | 24.24       | 0.14        | Left Tilt                                | 0   | 1       | 99        | 1:1        | 0.094        | 1.191          | 0.112         | -        |
| 1 770   | 132572 | QPSK | 20         | 24.0          | 23.28       | 0.10        | Left Tilt                                | 1   | 50      | 49        | 1:1        | 0.076        | 1.180          | 0.090         | -        |
| 1 770   | 132572 | QPSK | 20         | 25.0          | 24.24       | -0.11       | Right Cheek                              | 0   | 1       | 99        | 1:1        | 0.153        | 1.191          | <b>0.182</b>  | 21       |
| 1 770   | 132572 | QPSK | 20         | 24.0          | 23.28       | 0.12        | Right Cheek                              | 1   | 50      | 49        | 1:1        | 0.136        | 1.180          | 0.160         | -        |
| 1 770   | 132572 | QPSK | 20         | 25.0          | 24.24       | 0.11        | Right Tilt                               | 0   | 1       | 99        | 1:1        | 0.092        | 1.191          | 0.110         | -        |
| 1 770   | 132572 | QPSK | 20         | 24.0          | 23.28       | 0.10        | Right Tilt                               | 1   | 50      | 49        | 1:1        | 0.083        | 1.180          | 0.098         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |      |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |              |                |               |          |

| LTE Band 71 Head SAR_Ant. #1  |        |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
|---|--------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |        | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.    |      |            |               |             |             |  |     |         |           |            |              |                |               |          |
| 680.5   | 133297 | QPSK | 20         | 25.0          | 24.29       | 0.07        | Left Cheek                               | 0   | 1       | 0         | 1:1        | 0.145        | 1.178          | 0.171         | -        |
| 680.5   | 133297 | QPSK | 20         | 24.0          | 23.26       | 0.18        | Left Cheek                               | 1   | 50      | 25        | 1:1        | 0.159        | 1.186          | 0.189         | -        |
| 680.5   | 133297 | QPSK | 20         | 25.0          | 24.29       | -0.10       | Left Tilt                                | 0   | 1       | 0         | 1:1        | 0.069        | 1.178          | 0.081         | -        |
| 680.5   | 133297 | QPSK | 20         | 24.0          | 23.26       | -0.16       | Left Tilt                                | 1   | 50      | 25        | 1:1        | 0.068        | 1.186          | 0.081         | -        |
| 680.5   | 133297 | QPSK | 20         | 25.0          | 24.29       | 0.11        | Right Cheek                              | 0   | 1       | 0         | 1:1        | 0.2          | 1.178          | 0.236         | 22       |
| 680.5   | 133297 | QPSK | 20         | 24.0          | 23.26       | 0.17        | Right Cheek                              | 1   | 50      | 25        | 1:1        | 0.198        | 1.186          | 0.235         | -        |
| 680.5   | 133297 | QPSK | 20         | 25.0          | 24.29       | -0.14       | Right Tilt                               | 0   | 1       | 0         | 1:1        | 0.092        | 1.178          | 0.108         | -        |
| 680.5   | 133297 | QPSK | 20         | 24.0          | 23.26       | -0.18       | Right Tilt                               | 1   | 50      | 25        | 1:1        | 0.094        | 1.186          | 0.111         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |      |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |              |                |               |          |

**NR Band n5 (Cell) Head SAR\_ Ant. #1**

| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) |         |           |            |              | (W/kg)         |               |          |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.54       | 0.15        | Left Cheek                               | 0    | 1       | 1         | 1:1        | 0.206        | 1.112          | 0.229         | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.41       | 0.10        | Left Cheek                               | 0    | 50      | 28        | 1:1        | 0.204        | 1.146          | 0.234         | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.54       | 0.14        | Left Tilt                                | 0    | 1       | 1         | 1:1        | 0.091        | 1.112          | 0.101         | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.41       | 0.11        | Left Tilt                                | 0    | 50      | 28        | 1:1        | 0.099        | 1.146          | 0.113         | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.54       | 0.03        | Right Cheek                              | 0    | 1       | 1         | 1:1        | <b>0.235</b> | 1.112          | 0.261         | 23       |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.41       | 0.10        | Right Cheek                              | 0    | 50      | 28        | 1:1        | 0.232        | 1.146          | <b>0.266</b>  | 24       |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.54       | 0.12        | Right Tilt                               | 0    | 1       | 1         | 1:1        | 0.104        | 1.112          | 0.116         | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20         | 25.0          | 24.41       | 0.04        | Right Tilt                               | 0    | 50      | 28        | 1:1        | 0.110        | 1.146          | 0.126         | -        |
| 836.5   | 167300 | CP QPSK         | 20         | 23.5          | 22.97       | 0.11        | Right Cheek                              | 1.5  | 1       | 1         | 1:1        | 0.160        | 1.130          | 0.181         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |

**NR Band n25 Head SAR\_ Ant. #1**

| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) |         |           |            |              | (W/kg)         |               |          |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.67       | 0.13        | Left Cheek                               | 0    | 1       | 53        | 1:1        | 0.299        | 1.211          | <b>0.362</b>  | 25       |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.77       | 0.15        | Left Cheek                               | 0    | 50      | 28        | 1:1        | 0.294        | 1.183          | 0.348         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.67       | 0.14        | Left Tilt                                | 0    | 1       | 53        | 1:1        | 0.142        | 1.211          | 0.172         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.77       | 0.15        | Left Tilt                                | 0    | 50      | 28        | 1:1        | 0.146        | 1.183          | 0.173         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.67       | 0.16        | Right Cheek                              | 0    | 1       | 53        | 1:1        | 0.247        | 1.211          | 0.299         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.77       | 0.15        | Right Cheek                              | 0    | 50      | 28        | 1:1        | 0.253        | 1.183          | 0.299         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.67       | -0.02       | Right Tilt                               | 0    | 1       | 53        | 1:1        | 0.172        | 1.211          | 0.208         | -        |
| 1905  | 381000 | DFT-s OFDM QPSK | 20         | 24.5          | 23.77       | -0.19       | Right Tilt                               | 0    | 50      | 28        | 1:1        | 0.172        | 1.183          | 0.203         | -        |
| 1860  | 372000 | CP QPSK         | 20         | 23.0          | 21.86       | 0.18        | Left Cheek                               | 1.5  | 1       | 1         | 1:1        | 0.185        | 1.300          | 0.241         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |

**NR Band n41 Head SAR\_RCV On Ant. #2 (Power Class 3)**

| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (dB)    |           |            |              | (W/kg)         |               |          |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | 0.19        | Left Cheek                               | 0    | 1       | 137       | 1:1        | 0.175        | 1.079          | 0.189         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.70       | 0.12        | Left Cheek                               | 0    | 135     | 67        | 1:1        | 0.106        | 1.072          | 0.114         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | 0.16        | Left Tilt                                | 0    | 1       | 137       | 1:1        | 0.107        | 1.079          | 0.115         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.70       | 0.15        | Left Tilt                                | 0    | 135     | 67        | 1:1        | 0.076        | 1.072          | 0.081         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | 0.13        | Right Cheek                              | 0    | 1       | 137       | 1:1        | 0.421        | 1.079          | <b>0.454</b>  | 26       |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.70       | 0.16        | Right Cheek                              | 0    | 135     | 67        | 1:1        | 0.258        | 1.072          | 0.277         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | 0.13        | Right Tilt                               | 0    | 1       | 137       | 1:1        | 0.248        | 1.079          | 0.268         | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.70       | 0.11        | Right Tilt                               | 0    | 135     | 67        | 1:1        | 0.163        | 1.072          | 0.175         | -        |
| 2592.99   | 518598 | CP QPSK         | 100        | 22.0          | 20.59       | 0.08        | Right Cheek                              | 0    | 1       | 1         | 1:1        | 0.225        | 1.384          | 0.311         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |

\* Power reduction condition during Receiver\_ON

**NR Band n41 Head SAR (Power Class 2) RCV On Ant. #2**

| Frequency  |        | Modulation      | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|--|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|-----------|----------------|--------------|----------|
| Mhz  | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (dB)    |           |            |           | (W/kg)         |              |          |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.07       | -0.11       | Left Cheek                               | 0    | 1       | 137       | 1:1        | 0.092     | 1.104          | 0.102        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.77       | -0.17       | Left Cheek                               | 0    | 135     | 67        | 1:1        | 0.167     | 1.183          | 0.198        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.07       | 0.12        | Left Tilt                                | 0    | 1       | 137       | 1:1        | 0.058     | 1.104          | 0.064        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.77       | 0.17        | Left Tilt                                | 0    | 135     | 67        | 1:1        | 0.121     | 1.183          | 0.143        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.07       | 0.02        | Right Cheek                              | 0    | 1       | 137       | 1:1        | 0.207     | 1.104          | 0.229        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.77       | -0.19       | Right Cheek                              | 0    | 135     | 67        | 1:1        | 0.429     | 1.183          | <b>0.508</b> | 108      |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.07       | 0.18        | Right Tilt                               | 0    | 1       | 137       | 1:1        | 0.141     | 1.104          | 0.156        | -        |
| 2592.99  | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.77       | 0.18        | Right Tilt                               | 0    | 135     | 67        | 1:1        | 0.266     | 1.183          | 0.315        | -        |
| 2592.99  | 518598 | CP QPSK         | 100        | 24.5          | 22.9        | 0.17        | Right Cheek                              | 0    | 1       | 1         | 1:1        | 0.216     | 1.445          | 0.312        | -        |
| ANSI/ IEEE C95.1 - 2005– Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |           |                |              |          |

\* Power reduction condition during Receiver\_ON

| NR Band n66 Head SAR_ Ant. #1   |        |                 |            |               |             |             |  |      |         |           |            |              |                |               |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (dB)    | (W/kg)    | (W/kg)     |              |                |               |          |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.03       | 0.10        | Left Cheek                               | 0    | 1       | 108       | 1:1        | 0.213        | 1.250          | <b>0.266</b>  | 27       |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.51       | 0.18        | Left Cheek                               | 0    | 108     | 54        | 1:1        | 0.160        | 1.119          | 0.179         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.03       | 0.17        | Left Tilt                                | 0    | 1       | 108       | 1:1        | 0.128        | 1.250          | 0.160         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.51       | -0.15       | Left Tilt                                | 0    | 108     | 54        | 1:1        | 0.129        | 1.119          | 0.144         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.03       | 0.13        | Right Cheek                              | 0    | 1       | 108       | 1:1        | 0.189        | 1.250          | 0.236         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.51       | 0.07        | Right Cheek                              | 0    | 108     | 54        | 1:1        | 0.181        | 1.119          | 0.203         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.03       | 0.12        | Right Tilt                               | 0    | 1       | 108       | 1:1        | 0.127        | 1.250          | 0.159         | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0          | 24.51       | 0.16        | Right Tilt                               | 0    | 108     | 54        | 1:1        | 0.141        | 1.119          | 0.158         | -        |
| 1 745   | 349000 | CP QPSK         | 40         | 23.5          | 21.54       | 0.07        | Left Cheek                               | 1    | 1       | 1         | 1:1        | 0.105        | 1.570          | 0.165         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |



| NR Band n71 Head SAR_ Ant. #1   |        |                 |            |               |             |             |  |      |         |           |            |              |                |               |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (W/kg)  |           |            |              | (W/kg)         | (W/kg)        |          |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.12        | Left Cheek                               | 0    | 1       | 104       | 1:1        | 0.164        | 1.172          | 0.192         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.01        | Left Cheek                               | 0    | 50      | 28        | 1:1        | 0.141        | 1.216          | 0.171         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.12        | Left Tilt                                | 0    | 1       | 104       | 1:1        | 0.078        | 1.172          | 0.091         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.16        | Left Tilt                                | 0    | 50      | 28        | 1:1        | 0.063        | 1.216          | 0.077         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.01        | Right Cheek                              | 0    | 1       | 104       | 1:1        | 0.197        | 1.172          | <b>0.231</b>  | 28       |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.14        | Right Cheek                              | 0    | 50      | 28        | 1:1        | 0.154        | 1.216          | 0.187         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.12        | Right Tilt                               | 0    | 1       | 104       | 1:1        | 0.092        | 1.172          | 0.108         | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.09        | Right Tilt                               | 0    | 50      | 28        | 1:1        | 0.065        | 1.216          | 0.079         | -        |
| 680.5   | 136100 | CP QPSK         | 20         | 23.5          | 22.29       | -0.02       | Right Cheek                              | 1.5  | 1       | 1         | 1:1        | 0.100        | 1.321          | 0.132         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |

| NR Band n77 Head SAR_ RCV On_ Ant. SUB #4   |        |                 |            |               |             |             |  |      |         |           |            |              |                |               |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|--------------|----------------|---------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (W/kg)  |           |            |              | (W/kg)         | (W/kg)        |          |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.41       | -0.14       | Left Cheek                               | 0    | 1       | 137       | 1:1        | 0.069        | 1.021          | 0.070         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.37       | -0.10       | Left Cheek                               | 0    | 135     | 67        | 1:1        | 0.111        | 1.030          | 0.114         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.41       | -0.18       | Left Tilt                                | 0    | 1       | 137       | 1:1        | 0.086        | 1.021          | 0.088         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.37       | -0.14       | Left Tilt                                | 0    | 135     | 67        | 1:1        | 0.111        | 1.030          | 0.114         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.41       | -0.10       | Right Cheek                              | 0    | 1       | 137       | 1:1        | 0.247        | 1.021          | 0.252         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.37       | 0.17        | Right Cheek                              | 0    | 135     | 67        | 1:1        | 0.342        | 1.030          | <b>0.352</b>  | 29       |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.41       | 0.14        | Right Tilt                               | 0    | 1       | 137       | 1:1        | 0.256        | 1.021          | 0.261         | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 19.5          | 19.37       | -0.12       | Right Tilt                               | 0    | 135     | 67        | 1:1        | 0.274        | 1.030          | 0.282         | -        |
| 3 750   | 650000 | CP QPSK         | 100        | 19.5          | 18.43       | -0.10       | Right Cheek                              | 0    | 1       | 1         | 1:1        | 0.181        | 1.279          | 0.231         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |              |                |               |          |

\* Power reduction condition during Receiver\_ON



**DTS Head SAR**

| Frequency   |     | Mode    | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Area Scan Peak SAR | 1g Meas. SAR | Scaling Factor | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-----|---------|------------|-----------|---------------|-------------|-------------|--|------------|--------------------|--------------|----------------|----------------|---------------|----------|
| Mhz   | Ch. |         |            |           |               |             |             |  |            |                    | (Mhz)        |                |                | (Mbps)        |          |
| 2 412   | 1   | 802.11b | 20         | 1         | 16            | 14.81       | 0.03        | Left Cheek                               | 99.3       | 0.127              | 0.078        | 1.315          | 1.007          | 0.103         | -        |
| 2 412   | 1   | 802.11b | 20         | 1         | 16            | 14.81       | 0.01        | Left Tilt                                | 99.3       | 0.105              | 0.064        | 1.315          | 1.007          | 0.085         | -        |
| 2 412   | 1   | 802.11b | 20         | 1         | 16            | 14.81       | -0.16       | Right Cheek                              | 99.3       | 0.304              | 0.187        | 1.315          | 1.007          | <b>0.248</b>  | 30       |
| 2 412   | 1   | 802.11b | 20         | 1         | 16            | 14.81       |             | Right Tilt                               | 99.3       | 0.222              |              | 1.315          | 1.007          |               | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |         |            |           |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |                    |              |                |                |               |          |

**NII Head SAR**

| Frequency   |     | Mode     | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Area Scan Peak SAR | 1g Meas. SAR | Scaling Factor | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-----|----------|------------|-----------|---------------|-------------|-------------|--|------------|--------------------|--------------|----------------|----------------|---------------|----------|
| Mhz   | Ch. |          |            |           |               |             |             |  |            |                    | (Mhz)        |                |                | (Mbps)        |          |
| 5 290   | 58  | 802.11ac | 80         | MCS0      | 14.0          | 13.61       | 0.14        | Left Cheek                               | 88.2       | 0.392              | 0.103        | 1.094          | 1.134          | 0.128         | -        |
| 5 290   | 58  | 802.11ac | 80         | MCS0      | 14.0          | 13.61       | 0.11        | Left Tilt                                | 88.2       | 0.659              | 0.104        | 1.094          | 1.134          | 0.129         | -        |
| 5 290   | 58  | 802.11ac | 80         | MCS0      | 14.0          | 13.61       | 0.10        | Right Cheek                              | 88.2       | 0.546              | 0.152        | 1.094          | 1.134          | 0.189         | -        |
| 5 290   | 58  | 802.11ac | 80         | MCS0      | 14.0          | 13.61       | -0.06       | Right Tilt                               | 88.2       | 0.446              | 0.137        | 1.094          | 1.134          | 0.170         | -        |
| 5 530   | 106 | 802.11ac | 80         | MCS0      | 14.0          | 13.55       | -0.10       | Left Cheek                               | 88.2       | 0.338              | 0.088        | 1.109          | 1.134          | 0.111         | -        |
| 5 530   | 106 | 802.11ac | 80         | MCS0      | 14.0          | 13.55       | -0.18       | Left Tilt                                | 88.2       | 0.371              | 0.115        | 1.109          | 1.134          | 0.145         | -        |
| 5 530   | 106 | 802.11ac | 80         | MCS0      | 14.0          | 13.55       | -0.13       | Right Cheek                              | 88.2       | 0.875              | 0.272        | 1.109          | 1.134          | <b>0.342</b>  | 31       |
| 5 530   | 106 | 802.11ac | 80         | MCS0      | 14.0          | 13.55       | 0.10        | Right Tilt                               | 88.2       | 0.697              | 0.251        | 1.109          | 1.134          | 0.316         | -        |
| 5 775   | 155 | 802.11ac | 80         | MCS0      | 14.0          | 12.72       | -0.13       | Left Cheek                               | 88.2       | 0.488              | 0.116        | 1.343          | 1.134          | 0.177         | -        |
| 5 775   | 155 | 802.11ac | 80         | MCS0      | 14.0          | 12.72       | 0.18        | Left Tilt                                | 88.2       | 0.418              | 0.100        | 1.343          | 1.134          | 0.152         | -        |
| 5 775   | 155 | 802.11ac | 80         | MCS0      | 14.0          | 12.72       | 0.02        | Right Cheek                              | 88.2       | 0.342              | 0.100        | 1.343          | 1.134          | 0.152         | -        |
| 5 775   | 155 | 802.11ac | 80         | MCS0      | 14.0          | 12.72       | 0.12        | Right Tilt                               | 88.2       | 0.390              | 0.100        | 1.343          | 1.134          | 0.152         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |            |           |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |            |                    |              |                |                |               |          |

**DSS Head SAR**

| Frequency   |     | Mode          | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | 1g Meas. SAR | Scaling Factor | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-----|---------------|---------------|-------------|-------------|--|--------------|----------------|----------------|---------------|----------|
| Mhz   | Ch. |               |               |             |             |  | (dBm)        |                |                | (dBm)         |          |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | -0.16       | Left Cheek                               | 0.020        | 1.035          | 1.302          | 0.027         | -        |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.13        | Left Tilt                                | 0.018        | 1.035          | 1.302          | 0.024         | -        |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | -0.14       | Right Cheek                              | 0.044        | 1.035          | 1.302          | <b>0.059</b>  | 32       |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.12        | Right Tilt                               | 0.036        | 1.035          | 1.302          | 0.049         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |               |               |             |             | Head<br>1.6 W/kg<br>Averaged over 1 gram |              |                |                |               |          |

### 13.2 Body-worn SAR Measurement Results

| CDMA Body-Worn SAR _ Ant. #1  |     |           |                |               |             |             |  |            |          |              |                |               |          |
|---|-----|-----------|----------------|---------------|-------------|-------------|--|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode      |                | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |           |                | (dB)          | (dB)        | (dB)        |  |            |          | (mm)         |                | (W/kg)        |          |
| 820   | 560 | CDMA BC10 | TDSO RC32/SO55 | 25.5          | 24.04       | -0.14       | Rear                                     | 1:1        | 15       | 0.216        | 1.400          | <b>0.302</b>  | 33       |
| 820   | 560 | CDMA BC10 | TDSO RC32/SO55 | 25.5          | 24.04       | -0.15       | Front                                    | 1:1        | 15       | 0.182        | 1.400          | 0.255         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev.A     | 25.5          | 24.06       | -0.19       | Rear                                     | 1:1        | 15       | 0.198        | 1.393          | 0.276         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev.A     | 25.5          | 24.06       | -0.19       | Front                                    | 1:1        | 15       | 0.180        | 1.393          | 0.251         | -        |
| 836.52  | 384 | CDMA BC0  | TDSO RC32/SO55 | 25.5          | 23.77       | -0.17       | Rear                                     | 1:1        | 15       | 0.217        | 1.489          | <b>0.323</b>  | 34       |
| 836.52  | 384 | CDMA BC0  | TDSO RC32/SO55 | 25.5          | 23.77       | -0.12       | Front                                    | 1:1        | 15       | 0.104        | 1.489          | 0.155         | -        |
| 836.52  | 384 | CDMA BC0  | EVDO Rev. A    | 25.5          | 23.81       | -0.10       | Rear                                     | 1:1        | 15       | 0.208        | 1.476          | 0.307         | -        |
| 836.52  | 384 | CDMA BC0  | EVDO Rev. A    | 25.5          | 23.81       | -0.13       | Front                                    | 1:1        | 15       | 0.106        | 1.476          | 0.156         | -        |
| 1880.0  | 600 | PCS CDMA  | TDSO RC32/SO55 | 25.0          | 23.34       | -0.12       | Rear                                     | 1:1        | 15       | 0.480        | 1.466          | 0.704         | -        |
| 1880.0  | 600 | PCS CDMA  | TDSO RC32/SO55 | 25.0          | 23.34       | -0.16       | Front                                    | 1:1        | 15       | 0.232        | 1.466          | 0.340         | -        |
| 1880.0  | 600 | PCS CDMA  | EVDO Rev. A    | 25.0          | 23.31       | -0.10       | Rear                                     | 1:1        | 15       | 0.496        | 1.476          | <b>0.732</b>  | 35       |
| 1880.0  | 600 | PCS CDMA  | EVDO Rev. A    | 25.0          | 23.31       | -0.15       | Front                                    | 1:1        | 15       | 0.232        | 1.476          | 0.342         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |           |                |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |          |              |                |               |          |

| GSM/ WCDMA Body-Worn SAR _ Ant. #1  |      |                   |     |               |             |             |  |            |          |              |                |               |          |
|---|------|-------------------|-----|---------------|-------------|-------------|--|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |      | Mode              |     | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.  |                   |     | (dB)          | (dB)        | (dB)        |  |            |          | (mm)         |                | (W/kg)        |          |
| 836.6   | 190  | GSM 850 Voice     |     | 34.0          | 32.57       | -0.09       | Rear                                     | 1:8.3      | 15       | 0.270        | 1.390          | 0.375         | -        |
| 836.6   | 190  | GSM 850 Voice     |     | 34.0          | 32.57       | 0.12        | Front                                    | 1:8.3      | 15       | 0.159        | 1.390          | 0.221         | -        |
| 836.6   | 190  | GSM 850 GPRS 4Tx  |     | 30.0          | 28.71       | -0.09       | Rear                                     | 1:2.074    | 15       | 0.390        | 1.346          | <b>0.525</b>  | 36       |
| 836.6   | 190  | GSM 850 GPRS 4Tx  |     | 30.0          | 28.71       | 0.01        | Front                                    | 1:2.074    | 15       | 0.230        | 1.346          | 0.310         | -        |
| 1 880   | 661  | GSM 1900 Voice    |     | 31.0          | 29.43       | -0.11       | Rear                                     | 1:8.3      | 15       | 0.171        | 1.435          | 0.245         | -        |
| 1 880   | 661  | GSM 1900 Voice    |     | 31.0          | 29.43       | -0.10       | Front                                    | 1:8.3      | 15       | 0.098        | 1.435          | 0.141         | -        |
| 1 880   | 661  | GSM 1900 GPRS 4Tx |     | 27.0          | 25.66       | -0.10       | Rear                                     | 1:2.075    | 15       | 0.247        | 1.361          | <b>0.336</b>  | 37       |
| 1 880   | 661  | GSM 1900 GPRS 4Tx |     | 27.0          | 25.66       | -0.14       | Front                                    | 1:2.075    | 15       | 0.141        | 1.361          | 0.192         | -        |
| 826.4   | 4132 | WCDMA 850         | RMC | 25.0          | 23.96       | -0.04       | Rear                                     | 1:1        | 15       | 0.294        | 1.271          | <b>0.374</b>  | 38       |
| 826.4   | 4132 | WCDMA 850         | RMC | 25.0          | 23.96       | -0.07       | Front                                    | 1:1        | 15       | 0.217        | 1.271          | 0.276         | -        |
| 1 732.4   | 1412 | WCDMA 1700        | RMC | 25.0          | 24.15       | -0.02       | Rear                                     | 1:1        | 15       | 0.254        | 1.216          | <b>0.309</b>  | 39       |
| 1 732.4   | 1412 | WCDMA 1700        | RMC | 25.0          | 24.15       | -0.05       | Front                                    | 1:1        | 15       | 0.241        | 1.216          | 0.293         | -        |
| 1 880   | 9400 | WCDMA 1900        | RMC | 24.5          | 22.98       | -0.09       | Rear                                     | 1:1        | 15       | 0.365        | 1.419          | <b>0.518</b>  | 40       |
| 1 880   | 9400 | WCDMA 1900        | RMC | 24.5          | 22.98       | -0.10       | Front                                    | 1:1        | 15       | 0.233        | 1.419          | 0.331         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |                   |     |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |          |              |                |               |          |

| LTE Body-Worn SAR   |       |                       |            |               |             |             |  |      |         |           |            |          |              |                |               |          |
|---|-------|-----------------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode                  | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |                       | (Mhz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (dB)    | (mm)      |            | (W/kg)   | (W/kg)       |                |               |          |
| 2 560   | 21350 | LTE 7 QPSK (Ant.#2)   | 20         | 25.0          | 24.37       | -0.19       | Rear                                     | 0    | 1       | 49        | 1:1        | 15       | 0.672        | 1.156          | <b>0.777</b>  | 41       |
| 2 560   | 21350 |                       | 20         | 24.0          | 23.48       | 0.14        | Rear                                     | 1    | 50      | 25        | 1:1        | 15       | 0.609        | 1.127          | 0.686         | -        |
| 2 560   | 21350 |                       | 20         | 25.0          | 24.37       | -0.15       | Front                                    | 0    | 1       | 49        | 1:1        | 15       | 0.123        | 1.156          | 0.142         | -        |
| 2 560   | 21350 |                       | 20         | 24.0          | 23.48       | 0.10        | Front                                    | 1    | 50      | 25        | 1:1        | 15       | 0.102        | 1.127          | 0.115         | -        |
| 707.5   | 23095 | LTE 12 QPSK (Ant. #1) | 10         | 25.0          | 24.89       | -0.01       | Rear                                     | 0    | 1       | 0         | 1:1        | 15       | 0.408        | 1.026          | <b>0.418</b>  | 42       |
| 707.5   | 23095 |                       | 10         | 24.0          | 23.84       | 0.01        | Rear                                     | 1    | 25      | 0         | 1:1        | 15       | 0.314        | 1.038          | 0.326         | -        |
| 707.5   | 23095 |                       | 10         | 25.0          | 24.89       | -0.09       | Front                                    | 0    | 1       | 0         | 1:1        | 15       | 0.265        | 1.026          | 0.272         | -        |
| 707.5   | 23095 |                       | 10         | 24.0          | 23.84       | -0.15       | Front                                    | 1    | 25      | 0         | 1:1        | 15       | 0.205        | 1.038          | 0.213         | -        |
| 782   | 23230 | LTE 13 QPSK (Ant. #1) | 10         | 25.0          | 24.36       | -0.10       | Rear                                     | 0    | 1       | 0         | 1:1        | 15       | 0.405        | 1.159          | <b>0.469</b>  | 43       |
| 782   | 23230 |                       | 10         | 24.0          | 23.34       | -0.04       | Rear                                     | 1    | 25      | 24        | 1:1        | 15       | 0.381        | 1.164          | 0.443         | -        |
| 782   | 23230 |                       | 10         | 25.0          | 24.36       | 0.02        | Front                                    | 0    | 1       | 0         | 1:1        | 15       | 0.304        | 1.159          | 0.352         | -        |
| 782   | 23230 |                       | 10         | 24.0          | 23.34       | -0.01       | Front                                    | 1    | 25      | 24        | 1:1        | 15       | 0.278        | 1.164          | 0.324         | -        |
| 793   | 23330 | LTE 14 QPSK (Ant. #1) | 10         | 25.0          | 24.34       | -0.02       | Rear                                     | 0    | 1       | 24        | 1:1        | 15       | 0.329        | 1.164          | <b>0.383</b>  | 44       |
| 793   | 23330 |                       | 10         | 24.0          | 23.30       | -0.06       | Rear                                     | 1    | 25      | 12        | 1:1        | 15       | 0.289        | 1.175          | 0.340         | -        |
| 793   | 23330 |                       | 10         | 25.0          | 24.34       | -0.07       | Front                                    | 0    | 1       | 24        | 1:1        | 15       | 0.270        | 1.164          | 0.314         | -        |
| 793   | 23330 |                       | 10         | 24.0          | 23.30       | -0.08       | Front                                    | 1    | 25      | 12        | 1:1        | 15       | 0.210        | 1.175          | 0.247         | -        |
| 1 860   | 26140 | LTE 25 QPSK (Ant. #1) | 20         | 24.5          | 23.94       | 0.02        | Rear                                     | 0    | 1       | 49        | 1:1        | 15       | 0.387        | 1.138          | <b>0.440</b>  | 45       |
| 1 905   | 26590 |                       | 20         | 23.5          | 23.00       | 0.04        | Rear                                     | 1    | 50      | 0         | 1:1        | 15       | 0.353        | 1.122          | 0.396         | -        |
| 1 860   | 26140 |                       | 20         | 24.5          | 23.94       | 0.03        | Front                                    | 0    | 1       | 49        | 1:1        | 15       | 0.213        | 1.138          | 0.242         | -        |
| 1 905   | 26590 |                       | 20         | 23.5          | 23.00       | 0.14        | Front                                    | 1    | 50      | 0         | 1:1        | 15       | 0.198        | 1.122          | 0.222         | -        |
| 831.5   | 26865 | LTE 26 QPSK (Ant. #1) | 15         | 25.0          | 24.88       | -0.13       | Rear                                     | 0    | 1       | 0         | 1:1        | 15       | 0.302        | 1.028          | <b>0.310</b>  | 46       |
| 831.5   | 26865 |                       | 15         | 24.0          | 23.69       | -0.15       | Rear                                     | 1    | 36      | 0         | 1:1        | 15       | 0.255        | 1.074          | 0.274         | -        |
| 831.5   | 26865 |                       | 15         | 25.0          | 24.88       | -0.17       | Front                                    | 0    | 1       | 0         | 1:1        | 15       | 0.250        | 1.028          | 0.257         | -        |
| 831.5   | 26865 |                       | 15         | 24.0          | 23.69       | -0.10       | Front                                    | 1    | 36      | 0         | 1:1        | 15       | 0.205        | 1.074          | 0.220         | -        |
| 2 310   | 27710 | LTE 30 QPSK (Ant. #2) | 10         | 24.5          | 24.08       | -0.15       | Rear                                     | 0    | 1       | 24        | 1:1        | 15       | 0.507        | 1.102          | <b>0.559</b>  | 47       |
| 2 310   | 27710 |                       | 10         | 23.5          | 23.09       | -0.12       | Rear                                     | 1    | 25      | 12        | 1:1        | 15       | 0.404        | 1.099          | 0.444         | -        |
| 2 310   | 27710 |                       | 10         | 24.5          | 24.08       | -0.18       | Front                                    | 0    | 1       | 24        | 1:1        | 15       | 0.098        | 1.102          | 0.108         | -        |
| 2 310   | 27710 |                       | 10         | 23.5          | 23.09       | 0.12        | Front                                    | 1    | 25      | 12        | 1:1        | 15       | 0.085        | 1.099          | 0.093         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |                       |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |          |              |                |               |          |

**LTE Body-Worn SAR**

| Frequency   |        | Mode                                       | Band width                 | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No.     |        |
|---|--------|--|----------------------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|--------------|----------------|---------------|--------------|--------|
| Mhz   | Ch.    |  | (Mhz)                      | (dBm)         | (dBm)       | (dB)        |               |  |         |           |            |          |              |                | (dB)          |              | (W/kg) |
| 2 310   | 38750  | LTE TDD 40<br>QPSK<br>(Low)<br>(Ant. #2)   | 10                         | 11.0          | 9.59        | -0.18       | Rear          | 0  | 1       | 24        | 1:1.58     | 15       | 0.019        | 1.384          | 0.026         | -            |        |
| 2 310   | 38750  |  | 10                         | 11.0          | 9.60        | 0.14        | Rear          | 0  | 25      | 24        | 1:1.58     | 15       | 0.019        | 1.380          | <b>0.026</b>  | 48           |        |
| 2 310   | 38750  |  | 10                         | 11.0          | 9.59        | 0.01        | Front         | 0  | 1       | 24        | 1:1.58     | 15       | 0.00338      | 1.384          | 0.005         | -            |        |
| 2 310   | 38750  |  | 10                         | 11.0          | 9.60        | 0.15        | Front         | 0  | 25      | 24        | 1:1.58     | 15       | 0.00329      | 1.380          | 0.005         | -            |        |
| 2 535   | 39200  | LTE TDD 40<br>QPSK<br>(Upper)<br>(Ant. #2) | 10                         | 11.0          | 9.75        | 0.19        | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.024        | 1.334          | <b>0.032</b>  | 49           |        |
| 2 535   | 39200  |  | 10                         | 11.0          | 9.66        | -0.17       | Rear          | 0  | 25      | 0         | 1:1.58     | 15       | 0.022        | 1.361          | 0.030         | -            |        |
| 2 535   | 39200  |  | 10                         | 11.0          | 9.75        | 0.12        | Front         | 0  | 1       | 0         | 1:1.58     | 15       | 0.00361      | 1.334          | 0.005         | -            |        |
| 2 535   | 39200  |  | 10                         | 11.0          | 9.66        | -0.10       | Front         | 0  | 25      | 0         | 1:1.58     | 15       | 0.00302      | 1.361          | 0.004         | -            |        |
| 2 506.0   | 39750  | LTE TDD 41<br>QPSK(PC3)<br>(Ant. #2)       | 20                         | 24.0          | 23.11       | -0.15       | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.503        | 1.227          | 0.617         | -            |        |
| 2 549.5   | 40185  |  | 20                         | 24.0          | 22.81       | -0.11       | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.545        | 1.315          | 0.717         | -            |        |
| 2 593.0   | 40620  |  | 20                         | 24.0          | 23.43       | -0.08       | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.735        | 1.140          | 0.838         | -            |        |
| 2 636.5   | 41055  |  | 20                         | 24.0          | 23.09       | -0.18       | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.292        | 1.233          | 0.360         | -            |        |
| 2 680.0   | 41490  |  | 20                         | 24.0          | 23.21       | 0.06        | Rear          | 0  | 1       | 49        | 1:1.58     | 15       | 0.434        | 1.199          | 0.520         | -            |        |
| 2 506.0   | 39750  |  | 20                         | 23.0          | 22.62       | -0.14       | Rear          | 1  | 50      | 0         | 1:1.58     | 15       | 0.438        | 1.091          | 0.478         | -            |        |
| 2 549.5   | 40185  |  | 20                         | 23.0          | 22.36       | -0.15       | Rear          | 1  | 50      | 0         | 1:1.58     | 15       | 0.459        | 1.159          | 0.532         | -            |        |
| 2 593.0   | 40620  |  | 20                         | 23.0          | 22.98       | -0.05       | Rear          | 1  | 50      | 0         | 1:1.58     | 15       | 0.642        | 1.005          | 0.645         | -            |        |
| 2 636.5   | 41055  |  | 20                         | 23.0          | 22.51       | -0.15       | Rear          | 1  | 50      | 0         | 1:1.58     | 15       | 0.279        | 1.119          | 0.312         | -            |        |
| 2 680.0   | 41490  |  | 20                         | 23.0          | 22.76       | -0.11       | Rear          | 1  | 50      | 49        | 1:1.58     | 15       | 0.335        | 1.057          | 0.354         | -            |        |
| 2 593.0   | 40620  |  | 20                         | 23.0          | 22.89       | -0.10       | Rear          | 1  | 100     | 0         | 1:1.58     | 15       | 0.611        | 1.026          | 0.627         | -            |        |
| 2 593.0   | 40620  |  | 20                         | 24.0          | 23.43       | 0.09        | Front         | 0  | 1       | 0         | 1:1.58     | 15       | 0.121        | 1.140          | 0.138         | -            |        |
| 2 593.0   | 40620  |  | 20                         | 23.0          | 22.98       | 0.16        | Front         | 1  | 50      | 0         | 1:1.58     | 15       | 0.096        | 1.005          | 0.096         | -            |        |
| 2 593.0   | 40620  |  | QPSK (PC2) HPUE            | 20            | 27.0        | 26.46       | -0.11         | Rear                                     | 0       | 1         | 0          | 1:2.31   | 15           | 0.930          | 1.132         | 1.053        | -      |
| 2 593.0   | 40620  | PCC  | QPSK UCA<br>(PC3) 41C      | 20            | 24.0        | 23.52       | -0.13         | Rear                                     | 0       | 1         | 0          | 1:1.58   | 15           | 0.701          | 1.117         | 0.783        | -      |
| 2573.2  | 40422  | SCC  |                            | 1             |             |             |               |  |         | 99        |            |          |              |                |               |              |        |
| 2 593.0   | 40620  | PCC  | QPSK UCA (PC2)<br>HPUE 41C | 20            | 27.0        | 26.54       | -0.10         | Rear                                     | 0       | 1         | 0          | 1:2.31   | 15           | 1.05           | 1.112         | <b>1.168</b> | 50     |
| 2573.2  | 40422  | SCC  |                            | 1             |             |             |               |  |         | 99        |            |          |              |                |               |              |        |
| 2 593.0   | 40620  | PCC  | QPSK UCA (PC2)<br>HPUE 41C | 20            | 27.0        | 26.54       | -0.14         | Rear                                     | 0       | 1         | 0          | 1:2.31   | 15           | 1.00           | 1.112         | 1.112        | *      |
| 2573.2  | 40422  | SCC  |                            | 1             |             |             |               |  |         | 99        |            |          |              |                |               |              |        |
| 3 560.0   | 55340  | LTE TDD 48<br>QPSK<br>(Ant. SUB#4)         | 20                         | 24.0          | 23.74       | -0.01       | Rear          | 0  | 1       | 0         | 1:1.58     | 15       | 0.269        | 1.062          | <b>0.286</b>  | 51           |        |
| 3 560.0   | 55340  |  | 20                         | 23.0          | 22.80       | 0.01        | Rear          | 1  | 50      | 0         | 1:1.58     | 15       | 0.217        | 1.047          | 0.227         | -            |        |
| 3 560.0   | 55340  |  | 20                         | 24.0          | 23.74       | 0.19        | Front         | 0  | 1       | 0         | 1:1.58     | 15       | 0.150        | 1.062          | 0.159         | -            |        |
| 3 560.0   | 55340  |  | 20                         | 23.0          | 22.80       | 0.12        | Front         | 1  | 50      | 0         | 1:1.58     | 15       | 0.116        | 1.047          | 0.121         | -            |        |
| 1 770   | 132572 | LTE 66<br>QPSK<br>(Ant. #1)                | 20                         | 25.0          | 24.24       | -0.03       | Rear          | 0  | 1       | 99        | 1:1        | 15       | 0.339        | 1.191          | <b>0.404</b>  | 52           |        |
| 1 770   | 132572 |  | 20                         | 24.0          | 23.28       | 0.07        | Rear          | 1  | 50      | 49        | 1:1        | 15       | 0.292        | 1.180          | 0.345         | -            |        |
| 1 770   | 132572 |  | 20                         | 25.0          | 24.24       | -0.04       | Front         | 0  | 1       | 99        | 1:1        | 15       | 0.258        | 1.191          | 0.307         | -            |        |
| 1 770   | 132572 |  | 20                         | 24.0          | 23.28       | 0.11        | Front         | 1  | 50      | 49        | 1:1        | 15       | 0.230        | 1.180          | 0.271         | -            |        |
| 680.5   | 133297 | LTE 71<br>QPSK<br>(Ant. #1)                | 20                         | 25.0          | 24.29       | 0.07        | Rear          | 0  | 1       | 0         | 1:1        | 15       | 0.358        | 1.178          | <b>0.422</b>  | 53           |        |
| 680.5   | 133297 |  | 20                         | 24.0          | 23.26       | -0.05       | Rear          | 1  | 50      | 25        | 1:1        | 15       | 0.316        | 1.186          | 0.375         | -            |        |
| 680.5   | 133297 |  | 20                         | 25.0          | 24.29       | -0.01       | Front         | 0  | 1       | 0         | 1:1        | 15       | 0.213        | 1.178          | 0.251         | -            |        |
| 680.5   | 133297 |  | 20                         | 24.0          | 23.26       | -0.04       | Front         | 1  | 50      | 25        | 1:1        | 15       | 0.183        | 1.186          | 0.217         | -            |        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |  |                            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |              |                |               |              |        |

Note: \* Data entry indicate Variability measurement.

| NR Body-Worn SAR                          |        |                |            |               |             |             |                      |      |      |        |            |               |              |                |               |          |
|---|--------|----------------|------------|---------------|-------------|-------------|----------------------|------|------|--------|------------|---------------|--------------|----------------|---------------|----------|
| Frequency                                 |        | Mode           | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position        | MPR  | RB   | RB     | Duty Cycle | Distance (mm) | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz                                       | Ch.    |                | (MHz)      | (dBm)         | (dBm)       | (dB)        |                      | (dB) | Size | offset |            |               | (W/kg)       |                | (W/kg)        |          |
| 836.5                                     | 167300 | NR n5          | 20         | 25.0          | 24.54       | 0.04        | Rear                 | 0    | 1    | 1      | 1:1        | 15            | 0.224        | 1.112          | 0.249         | -        |
| 836.5                                     | 167300 | DFT-s OFDM     | 20         | 25.0          | 24.41       | -0.05       | Rear                 | 0    | 50   | 28     | 1:1        | 15            | 0.299        | 1.146          | <b>0.343</b>  | 54       |
| 836.5                                     | 167300 | QPSK           | 20         | 25.0          | 24.54       | -0.03       | Front                | 0    | 1    | 1      | 1:1        | 15            | 0.221        | 1.112          | 0.246         | -        |
| 836.5                                     | 167300 | (Ant. #1)      | 20         | 25.0          | 24.41       | 0.06        | Front                | 0    | 50   | 28     | 1:1        | 15            | 0.223        | 1.146          | 0.256         | -        |
| 836.5                                     | 167300 | NR n5 CP QPSK  | 20         | 23.5          | 22.97       | -0.01       | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.180        | 1.130          | 0.203         | -        |
| 1905                                      | 381000 | NR n25         | 20         | 24.5          | 23.67       | 0.14        | Rear                 | 0    | 1    | 53     | 1:1        | 15            | 0.529        | 1.211          | 0.641         | -        |
| 1905                                      | 381000 | DFT-s OFDM     | 20         | 24.5          | 23.77       | -0.17       | Rear                 | 0    | 50   | 28     | 1:1        | 15            | 0.546        | 1.183          | <b>0.646</b>  | 55       |
| 1905                                      | 381000 | QPSK           | 20         | 24.5          | 23.67       | 0.13        | Front                | 0    | 1    | 53     | 1:1        | 15            | 0.426        | 1.211          | 0.516         | -        |
| 1905                                      | 381000 | (Ant. #1)      | 20         | 24.5          | 23.77       | 0.07        | Front                | 0    | 50   | 28     | 1:1        | 15            | 0.315        | 1.183          | 0.373         | -        |
| 1860                                      | 372000 | NR n25 CP QPSK | 20         | 23.0          | 21.86       | 0.11        | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.304        | 1.300          | 0.395         | -        |
| 2 592.99                                  | 518598 | NR n41         | 100        | 25.0          | 24.29       | -0.11       | Rear                 | 0    | 1    | 137    | 1:1        | 15            | 0.618        | 1.178          | <b>0.728</b>  | 56       |
| 2 592.99                                  | 518598 | DFT-s OFDM     | 100        | 25.0          | 24.09       | -0.09       | Rear                 | 0    | 135  | 67     | 1:1        | 15            | 0.542        | 1.233          | 0.668         | -        |
| 2 592.99                                  | 518598 | QPSK (PC3)     | 100        | 25.0          | 24.29       | 0.18        | Front                | 0    | 1    | 137    | 1:1        | 15            | 0.098        | 1.178          | 0.115         | -        |
| 2 592.99                                  | 518598 | (Ant. #2)      | 100        | 25.0          | 24.09       | -0.02       | Front                | 0    | 135  | 67     | 1:1        | 15            | 0.091        | 1.233          | 0.112         | -        |
| 2 592.99                                  | 518598 | NR n41CP QPSK  | 100        | 23.5          | 21.87       | -0.16       | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.275        | 1.455          | 0.400         | -        |
| 2 592.99                                  | 518598 | NR n41         | 100        | 27.0          | 26.97       | 0.19        | Rear                 | 0    | 1    | 137    | 1:1        | 15            | 0.651        | 1.007          | 0.656         | -        |
| 2 592.99                                  | 518598 | DFT-s OFDM     | 100        | 27.0          | 26.67       | 0.12        | Rear                 | 0    | 135  | 67     | 1:1        | 15            | 1.01         | 1.079          | 1.090         | 109      |
| 2 592.99                                  | 518598 | QPSK (PC2)     | 100        | 26.0          | 25.45       | 0.01        | Rear                 | 0    | 270  | 0      | 1:1        | 15            | 0.907        | 1.135          | 1.029         | -        |
| 2 592.99                                  | 518598 | (Ant. #2)      | 100        | 27.0          | 26.97       | 0.17        | Front                | 0    | 1    | 137    | 1:1        | 15            | 0.078        | 1.007          | 0.079         | -        |
| 2 592.99                                  | 518598 | (Ant. #2)      | 100        | 27.0          | 26.67       | 0.19        | Front                | 0    | 135  | 67     | 1:1        | 15            | 0.116        | 1.079          | 0.125         | -        |
| 2 592.99                                  | 518598 | NR n41CP QPSK  | 100        | 25.5          | 24.38       | 0.02        | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.626        | 1.294          | 0.81          | -        |
| 1 745                                     | 349000 | NR n66         | 40         | 25.0          | 24.03       | 0.08        | Rear                 | 0    | 1    | 108    | 1:1        | 15            | 0.417        | 1.250          | <b>0.521</b>  | 57       |
| 1 745                                     | 349000 | DFT-s OFDM     | 40         | 25.0          | 24.51       | -0.04       | Rear                 | 0    | 108  | 54     | 1:1        | 15            | 0.383        | 1.119          | 0.429         | -        |
| 1 745                                     | 349000 | QPSK           | 40         | 25.0          | 24.03       | 0.03        | Front                | 0    | 1    | 108    | 1:1        | 15            | 0.346        | 1.250          | 0.433         | -        |
| 1 745                                     | 349000 | (Ant. #1)      | 40         | 25.0          | 24.51       | 0.03        | Front                | 0    | 108  | 54     | 1:1        | 15            | 0.306        | 1.119          | 0.342         | -        |
| 1 745                                     | 349000 | NR n66CP QPSK  | 40         | 23.5          | 21.54       | 0.07        | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.216        | 1.570          | 0.339         | -        |
| 680.5                                     | 136100 | NR n71         | 20         | 25.0          | 24.31       | -0.05       | Rear                 | 0    | 1    | 104    | 1:1        | 15            | 0.291        | 1.172          | 0.341         | -        |
| 680.5                                     | 136100 | DFT-s OFDM     | 20         | 25.0          | 24.15       | -0.01       | Rear                 | 0    | 50   | 28     | 1:1        | 15            | 0.301        | 1.216          | <b>0.366</b>  | 58       |
| 680.5                                     | 136100 | QPSK           | 20         | 25.0          | 24.31       | 0.02        | Front                | 0    | 1    | 104    | 1:1        | 15            | 0.197        | 1.172          | 0.231         | -        |
| 680.5                                     | 136100 | (Ant. #1)      | 20         | 25.0          | 24.15       | -0.04       | Front                | 0    | 50   | 28     | 1:1        | 15            | 0.199        | 1.216          | 0.242         | -        |
| 680.5                                     | 136100 | NR n71 CP QPSK | 20         | 23.5          | 22.29       | -0.04       | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.211        | 1.321          | 0.279         | -        |
| 3750                                      | 650000 | NR n77         | 100        | 24.5          | 24.40       | -0.10       | Rear                 | 0    | 1    | 137    | 1:1        | 15            | 0.317        | 1.023          | 0.324         | -        |
| 3750                                      | 650000 | DFT-s OFDM     | 100        | 24.5          | 24.30       | 0.01        | Rear                 | 0    | 135  | 67     | 1:1        | 15            | 0.327        | 1.047          | <b>0.342</b>  | 59       |
| 3750                                      | 650000 | QPSK           | 100        | 24.5          | 24.40       | 0.10        | Front                | 0    | 1    | 137    | 1:1        | 15            | 0.148        | 1.023          | 0.151         | -        |
| 3750                                      | 650000 | (Ant. SUB#4)   | 100        | 24.5          | 24.30       | -0.01       | Front                | 0    | 135  | 67     | 1:1        | 15            | 0.151        | 1.047          | 0.158         | -        |
| 3750                                      | 650000 | NR n77 CP QPSK | 100        | 23.0          | 21.84       | 0.10        | Rear                 | 1.5  | 1    | 1      | 1:1        | 15            | 0.182        | 1.306          | 0.238         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit    |        |                |            |               |             |             | Body                 |      |      |        |            |               |              |                |               |          |
| Spatial Peak                              |        |                |            |               |             |             | 1.6 W/kg             |      |      |        |            |               |              |                |               |          |
| Uncontrolled Exposure/ General Population |        |                |            |               |             |             | Averaged over 1 gram |      |      |        |            |               |              |                |               |          |

Note: \* Data entry indicate Variability measurement.

| DTS Body-Worn SAR   |     |         |                  |                  |                     |                   |                  |  |            |               |                           |                     |                |                       |                      |          |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|--|------------|---------------|---------------------------|---------------------|----------------|-----------------------|----------------------|----------|
| Frequency   |     | Mode    | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position                            | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | 1g Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | 1g Scaled SAR (W/kg) | Plot No. |
| Mhz   | Ch. |         |                  |                  |                     |                   |                  |  |            |               |                           |                     |                |                       |                      |          |
| 2 412   | 1   | 802.11b | 20               | 1                | 20.0                | 18.96             | 0.17             | Rear                                     | 99.3       | 15            | 0.204                     | 0.124               | 1.271          | 1.007                 | <b>0.159</b>         | 60       |
| 2 412   | 1   | 802.11b | 20               | 1                | 20.0                | 18.96             | 0.19             | Front                                    | 99.3       | 15            | 0.0771                    | 0.050               | 1.271          | 1.007                 | 0.064                | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population |     |         |                  |                  |                     |                   |                  | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |               |                           |                     |                |                       |                      |          |

| NII Body-Worn SAR   |     |         |                  |                  |                     |                   |                  |  |            |               |                           |                     |                |                       |                      |          |
|---|-----|---------|------------------|------------------|---------------------|-------------------|------------------|--|------------|---------------|---------------------------|---------------------|----------------|-----------------------|----------------------|----------|
| Frequency   |     | Mode    | Band width (MHz) | Data Rate (Mbps) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position                            | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg) | 1g Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | 1g Scaled SAR (W/kg) | Plot No. |
| Mhz   | Ch. |         |                  |                  |                     |                   |                  |  |            |               |                           |                     |                |                       |                      |          |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                | 17.37             | 0.10             | Rear                                     | 93.7       | 15            | 0.484                     | 0.178               | 1.156          | 1.067                 | 0.220                | -        |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                | 17.37             | 0.10             | Front                                    | 93.7       | 15            | 0.039                     | 0.00925             | 1.156          | 1.067                 | 0.011                | -        |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                | 16.95             | 0.01             | Rear                                     | 93.7       | 15            | 0.466                     | 0.206               | 1.274          | 1.067                 | <b>0.280</b>         | 61       |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                | 16.95             | 0.01             | Front                                    | 93.7       | 15            | 0.162                     | 0.047               | 1.274          | 1.067                 | 0.064                | -        |
| 5 795   | 159 | 802.11n | 40               | MCS0             | 18.0                | 16.83             | -0.10            | Rear                                     | 93.7       | 15            | 0.460                     | 0.173               | 1.309          | 1.067                 | 0.242                | -        |
| 5 795   | 159 | 802.11n | 40               | MCS0             | 18.0                | 16.83             | 0.01             | Front                                    | 93.7       | 15            | 0.131                     | 0.037               | 1.309          | 1.067                 | 0.052                | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population |     |         |                  |                  |                     |                   |                  | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |               |                           |                     |                |                       |                      |          |

| DSS Body-Worn SAR   |     |               |                     |                   |                  |               |  |                     |                |                       |                      |          |  |
|---|-----|---------------|---------------------|-------------------|------------------|---------------|--|---------------------|----------------|-----------------------|----------------------|----------|--|
| Frequency   |     | Mode          | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Distance (mm)                            | 1g Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | 1g Scaled SAR (W/kg) | Plot No. |  |
| Mhz   | Ch. |               |                     |                   |                  |               |  |                     |                |                       |                      |          |  |
| 2 402   | 0   | Bluetooth DH5 | 9.5                 | 9.35              | 0.10             | Rear          | 15                                       | 0.013               | 1.035          | 1.302                 | <b>0.018</b>         | 62       |  |
| 2 402   | 0   | Bluetooth DH5 | 9.5                 | 9.35              | -0.05            | Front         | 15                                       | 0.00179             | 1.035          | 1.302                 | 0.002                | -        |  |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit Spatial Peak Uncontrolled Exposure/ General Population |     |               |                     |                   |                  |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |                     |                |                       |                      |          |  |



### 13.3 Hotspot SAR Measurement Results

| CDMA BC10(\$90S) Hotspot SAR _ Ant. #1  |     |           |            |               |             |             |  |            |               |              |                |               |          |
|---|-----|-----------|------------|---------------|-------------|-------------|--|------------|---------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode      |            | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance (mm) | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |           |            | (dB)          | (dB)        | (dB)        |  |            |               | (W/kg)       |                | (W/kg)        |          |
| 820   | 560 | CDMA BC10 | EVDO Rev.0 | 25.5          | 24.10       | -0.13       | Rear                                     | 1:1        | 10            | 0.361        | 1.380          | <b>0.498</b>  | 63       |
| 820   | 560 | CDMA BC10 | EVDO Rev.0 | 25.5          | 24.10       | -0.19       | Front                                    | 1:1        | 10            | 0.169        | 1.380          | 0.233         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev.0 | 25.5          | 24.10       | -0.13       | Left                                     | 1:1        | 10            | 0.099        | 1.380          | 0.137         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev.0 | 25.5          | 24.10       | -0.19       | Right                                    | 1:1        | 10            | 0.172        | 1.380          | 0.237         | -        |
| 820   | 560 | CDMA BC10 | EVDO Rev.0 | 25.5          | 24.10       | 0.12        | Bottom                                   | 1:1        | 10            | 0.147        | 1.380          | 0.203         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |           |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |               |              |                |               |          |

| CDMA BC0(\$22H) Hotspot SAR _ Ant. #1   |     |          |            |               |             |             |  |            |               |              |                |               |          |
|---|-----|----------|------------|---------------|-------------|-------------|--|------------|---------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     |            | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance (mm) | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |            | (dB)          | (dB)        | (dB)        |  |            |               | (W/kg)       |                | (W/kg)        |          |
| 836.52  | 384 | CDMA BC0 | EVDO Rev.0 | 25.5          | 23.85       | -0.02       | Rear                                     | 1:1        | 10            | 0.394        | 1.462          | <b>0.576</b>  | 64       |
| 836.52  | 384 | CDMA BC0 | EVDO Rev.0 | 25.5          | 23.85       | -0.14       | Front                                    | 1:1        | 10            | 0.092        | 1.462          | 0.135         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev.0 | 25.5          | 23.85       | -0.18       | Left                                     | 1:1        | 10            | 0.045        | 1.462          | 0.066         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev.0 | 25.5          | 23.85       | -0.09       | Right                                    | 1:1        | 10            | 0.121        | 1.462          | 0.177         | -        |
| 836.52  | 384 | CDMA BC0 | EVDO Rev.0 | 25.5          | 23.85       | 0.10        | Bottom                                   | 1:1        | 10            | 0.176        | 1.462          | 0.257         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |               |              |                |               |          |

| PCS CDMA Hotspot SAR _ Ant. #1  |     |          |            |               |             |             |  |            |               |              |                |               |          |
|---|-----|----------|------------|---------------|-------------|-------------|--|------------|---------------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     |            | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance (mm) | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |            | (dB)          | (dB)        | (dB)        |  |            |               | (W/kg)       |                | (W/kg)        |          |
| 1 880   | 600 | PCS CDMA | EVDO Rev.0 | 21.5          | 20.83       | -0.06       | Rear                                     | 1:1        | 10            | 0.456        | 1.167          | <b>0.532</b>  | 65       |
| 1 880   | 600 | PCS CDMA | EVDO Rev.0 | 21.5          | 20.83       | -0.08       | Front                                    | 1:1        | 10            | 0.213        | 1.167          | 0.249         | -        |
| 1 880   | 600 | PCS CDMA | EVDO Rev.0 | 21.5          | 20.83       | -0.09       | Left                                     | 1:1        | 10            | 0.184        | 1.167          | 0.215         | -        |
| 1 880   | 600 | PCS CDMA | EVDO Rev.0 | 21.5          | 20.83       | -0.17       | Right                                    | 1:1        | 10            | 0.189        | 1.167          | 0.221         | -        |
| 1 880   | 600 | PCS CDMA | EVDO Rev.0 | 21.5          | 20.83       | -0.10       | Bottom                                   | 1:1        | 10            | 0.413        | 1.167          | 0.482         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |               |              |                |               |          |

| GSM 850 Hotspot SAR _ Ant. #1   |     |          |               |             |             |               |  |          |              |                |               |          |
|---|-----|----------|---------------|-------------|-------------|---------------|--|----------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |               |             |             |               |  |          |              |                |               |          |
| 824.2   | 128 | GPRS 4Tx | 30.0          | 29.01       | -0.11       | Rear          | 1:2.074                                  | 10       | <b>0.753</b> | 1.256          | 0.946         | 66       |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.05       | Rear          | 1:2.074                                  | 10       | 0.744        | 1.346          | 1.001         | -        |
| 848.8   | 251 | GPRS 4Tx | 30.0          | 28.67       | -0.16       | Rear          | 1:2.074                                  | 10       | 0.750        | 1.358          | <b>1.019</b>  | 67       |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.12       | Front         | 1:2.074                                  | 10       | 0.215        | 1.346          | 0.289         | -        |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | -0.14       | Left          | 1:2.074                                  | 10       | 0.130        | 1.346          | 0.175         | -        |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | 0.04        | Right         | 1:2.074                                  | 10       | 0.278        | 1.346          | 0.374         | -        |
| 836.6   | 190 | GPRS 4Tx | 30.0          | 28.71       | 0.07        | Bottom        | 1:2.074                                  | 10       | 0.329        | 1.346          | 0.443         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |              |                |               |          |

| GSM 1900 Hotspot SAR _ Ant. #1  |     |          |               |             |             |               |  |          |              |                |               |          |
|---|-----|----------|---------------|-------------|-------------|---------------|--|----------|--------------|----------------|---------------|----------|
| Frequency   |     | Mode     | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch. |          |               |             |             |               |  |          |              |                |               |          |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.15       | Rear          | 1:2.074                                  | 10       | 0.530        | 1.361          | <b>0.721</b>  | 68       |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.14       | Front         | 1:2.074                                  | 10       | 0.263        | 1.361          | 0.358         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.10       | Left          | 1:2.074                                  | 10       | 0.244        | 1.361          | 0.332         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.19       | Right         | 1:2.074                                  | 10       | 0.119        | 1.361          | 0.162         | -        |
| 1 880   | 661 | GPRS 4Tx | 27.0          | 25.66       | -0.13       | Bottom        | 1:2.074                                  | 10       | 0.410        | 1.361          | 0.558         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |          |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |              |                |               |          |

| UMTS 850 Hotspot SAR _ Ant. #1  |      |      |               |             |             |               |  |          |              |                |               |          |
|---|------|------|---------------|-------------|-------------|---------------|--|----------|--------------|----------------|---------------|----------|
| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Duty Cycle                               | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.  |      |               |             |             |               |  |          |              |                |               |          |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.15       | Rear          | 1:1                                      | 10       | 0.570        | 1.271          | <b>0.724</b>  | 69       |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.08       | Front         | 1:1                                      | 10       | 0.200        | 1.271          | 0.254         | -        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.16       | Left          | 1:1                                      | 10       | 0.134        | 1.271          | 0.170         | -        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | -0.09       | Right         | 1:1                                      | 10       | 0.258        | 1.271          | 0.328         | -        |
| 826.4   | 4132 | RMC  | 25.0          | 23.96       | 0.14        | Bottom        | 1:1                                      | 10       | 0.221        | 1.271          | 0.281         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |              |                |               |          |



| UMTS 1700 Hotspot SAR _ Ant. #1   |      |      |               |             |             |  |            |          |              |                |               |          |
|---|------|------|---------------|-------------|-------------|--|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.  |      | (dB)          | (dB)        | (dB)        |  |            |          |              |                | (W/kg)        |          |
| 1 752.6   | 1513 | RMC  | 20.5          | 20.23       | -0.03       | Rear                                     | 1:1        | 10       | 0.256        | 1.064          | <b>0.272</b>  | 70       |
| 1 752.6   | 1513 | RMC  | 20.5          | 20.23       | -0.05       | Front                                    | 1:1        | 10       | 0.160        | 1.064          | 0.170         | -        |
| 1 752.6   | 1513 | RMC  | 20.5          | 20.23       | -0.12       | Left                                     | 1:1        | 10       | 0.097        | 1.064          | 0.103         | -        |
| 1 752.6   | 1513 | RMC  | 20.5          | 20.23       | 0.16        | Right                                    | 1:1        | 10       | 0.067        | 1.064          | 0.071         | -        |
| 1 752.6   | 1513 | RMC  | 20.5          | 20.23       | 0.04        | Bottom                                   | 1:1        | 10       | 0.235        | 1.064          | 0.250         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |          |              |                |               |          |

| UMTS 1900 Hotspot SAR _ Ant. #1   |      |      |               |             |             |  |            |          |              |                |               |          |
|---|------|------|---------------|-------------|-------------|--|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |      | Mode | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.  |      | (dB)          | (dB)        | (dB)        |  |            |          |              |                | (W/kg)        |          |
| 1 880.0   | 9400 | RMC  | 20.0          | 19.05       | -0.06       | Rear                                     | 1:1        | 10       | 0.267        | 1.245          | <b>0.332</b>  | 71       |
| 1 880.0   | 9400 | RMC  | 20.0          | 19.05       | -0.04       | Front                                    | 1:1        | 10       | 0.115        | 1.245          | 0.143         | -        |
| 1 880.0   | 9400 | RMC  | 20.0          | 19.05       | -0.09       | Left                                     | 1:1        | 10       | 0.105        | 1.245          | 0.131         | -        |
| 1 880.0   | 9400 | RMC  | 20.0          | 19.05       | 0.10        | Right                                    | 1:1        | 10       | 0.052        | 1.245          | 0.065         | -        |
| 1 880.0   | 9400 | RMC  | 20.0          | 19.05       | 0.10        | Bottom                                   | 1:1        | 10       | 0.252        | 1.245          | 0.314         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |      |      |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |            |          |              |                |               |          |

| LTE Band 7 Hotspot SAR _ Ant. #2  |       |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            | (MHz)         | (dBm)       | (dBm)       |               |  |         |           |            |          |              |                | (dB)          |          |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.04       | -0.14       | Rear          | 0  | 1       | 99        | 1:1        | 10       | 0.397        | 1.247          | <b>0.495</b>  | 72       |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.19       | -0.13       | Rear          | 0  | 50      | 49        | 1:1        | 10       | <b>0.410</b> | 1.205          | 0.494         | 73       |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.04       | 0.12        | Front         | 0  | 1       | 99        | 1:1        | 10       | 0.049        | 1.247          | 0.061         | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.19       | 0.15        | Front         | 0  | 50      | 49        | 1:1        | 10       | 0.050        | 1.205          | 0.060         | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.04       | 0.09        | Left          | 0  | 1       | 99        | 1:1        | 10       | 0.184        | 1.247          | 0.229         | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.19       | 0.10        | Left          | 0  | 50      | 49        | 1:1        | 10       | 0.188        | 1.205          | 0.227         | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.04       | -0.12       | Top           | 0  | 1       | 99        | 1:1        | 10       | 0.050        | 1.247          | 0.062         | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0          | 18.19       | -0.10       | Top           | 0  | 50      | 49        | 1:1        | 10       | 0.051        | 1.205          | 0.061         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |              |                |               |          |

**LTE Band 12 Hotspot SAR Ant. #1**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | 0.02        | Rear                                     | 0   | 1       | 0         | 1:1        | 10       | 0.586        | 1.026          | <b>0.601</b>  | 74       |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | -0.02       | Rear                                     | 1   | 25      | 0         | 1:1        | 10       | 0.451        | 1.038          | 0.468         | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | -0.06       | Front                                    | 0   | 1       | 0         | 1:1        | 10       | 0.243        | 1.026          | 0.249         | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | 0.04        | Front                                    | 1   | 25      | 0         | 1:1        | 10       | 0.186        | 1.038          | 0.193         | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | -0.14       | Left                                     | 0   | 1       | 0         | 1:1        | 10       | 0.160        | 1.026          | 0.164         | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | -0.14       | Left                                     | 1   | 25      | 0         | 1:1        | 10       | 0.122        | 1.038          | 0.127         | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | -0.01       | Right                                    | 0   | 1       | 0         | 1:1        | 10       | 0.303        | 1.026          | 0.311         | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | -0.01       | Right                                    | 1   | 25      | 0         | 1:1        | 10       | 0.233        | 1.038          | 0.242         | -        |
| 707.5   | 23095 | QPSK | 10         | 25.0          | 24.89       | 0.13        | Bottom                                   | 0   | 1       | 0         | 1:1        | 10       | 0.205        | 1.026          | 0.210         | -        |
| 707.5   | 23095 | QPSK | 10         | 24.0          | 23.84       | 0.19        | Bottom                                   | 1   | 25      | 0         | 1:1        | 10       | 0.170        | 1.038          | 0.176         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

**LTE Band 13 Hotspot SAR Ant. #1**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.20       | -0.02       | Rear                                     | 0   | 1       | 0         | 1:1        | 10       | 0.135        | 1.202          | 0.162         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.16       | 0.01        | Rear                                     | 0   | 25      | 12        | 1:1        | 10       | 0.141        | 1.213          | 0.171         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.20       | -0.08       | Front                                    | 0   | 1       | 0         | 1:1        | 10       | 0.068        | 1.202          | 0.082         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.16       | -0.03       | Front                                    | 0   | 25      | 12        | 1:1        | 10       | 0.072        | 1.213          | 0.087         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.20       | -0.07       | Left                                     | 0   | 1       | 0         | 1:1        | 10       | 0.129        | 1.202          | 0.155         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.16       | -0.05       | Left                                     | 0   | 25      | 12        | 1:1        | 10       | 0.121        | 1.213          | 0.147         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.20       | -0.07       | Right                                    | 0   | 1       | 0         | 1:1        | 10       | 0.220        | 1.202          | 0.264         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.16       | -0.08       | Right                                    | 0   | 25      | 12        | 1:1        | 10       | 0.224        | 1.213          | <b>0.272</b>  | 75       |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.20       | 0.10        | Bottom                                   | 0   | 1       | 0         | 1:1        | 10       | 0.017        | 1.202          | 0.020         | -        |
| 782   | 23230 | QPSK | 10         | 22.0          | 21.16       | 0.10        | Bottom                                   | 0   | 25      | 12        | 1:1        | 10       | 0.019        | 1.213          | 0.023         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

**LTE Band 14 Hotspot SAR Ant. #1**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.27       | 0.02        | Rear                                     | 0   | 1       | 49        | 1:1        | 10       | 0.133        | 1.183          | 0.157         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.26       | -0.01       | Rear                                     | 0   | 25      | 24        | 1:1        | 10       | 0.136        | 1.186          | 0.161         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.27       | 0.03        | Front                                    | 0   | 1       | 49        | 1:1        | 10       | 0.070        | 1.183          | 0.083         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.26       | -0.04       | Front                                    | 0   | 25      | 24        | 1:1        | 10       | 0.072        | 1.186          | 0.085         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.27       | -0.08       | Left                                     | 0   | 1       | 49        | 1:1        | 10       | 0.084        | 1.183          | 0.099         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.26       | 0.01        | Left                                     | 0   | 25      | 24        | 1:1        | 10       | 0.074        | 1.186          | 0.088         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.27       | -0.03       | Right                                    | 0   | 1       | 49        | 1:1        | 10       | 0.182        | 1.183          | 0.215         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.26       | -0.07       | Right                                    | 0   | 25      | 24        | 1:1        | 10       | 0.187        | 1.186          | <b>0.222</b>  | 76       |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.27       | 0.12        | Bottom                                   | 0   | 1       | 49        | 1:1        | 10       | 0.022        | 1.183          | 0.026         | -        |
| 793   | 23330 | QPSK | 10         | 22.0          | 21.26       | 0.17        | Bottom                                   | 0   | 25      | 24        | 1:1        | 10       | 0.023        | 1.186          | 0.027         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

**LTE Band 25 Hotspot SAR Ant. #1**

| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot N7. |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.86       | -0.03       | Rear                                     | 0   | 1       | 49        | 1:1        | 10       | 0.449        | 1.159          | <b>0.520</b>  | 77       |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.88       | -0.15       | Rear                                     | 1   | 50      | 25        | 1:1        | 10       | 0.423        | 1.153          | 0.488         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.86       | -0.14       | Front                                    | 0   | 1       | 49        | 1:1        | 10       | 0.167        | 1.159          | 0.194         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.88       | -0.08       | Front                                    | 1   | 50      | 25        | 1:1        | 10       | 0.166        | 1.153          | 0.191         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.86       | -0.13       | Left                                     | 0   | 1       | 49        | 1:1        | 10       | 0.203        | 1.159          | 0.235         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.88       | 0.07        | Left                                     | 1   | 50      | 25        | 1:1        | 10       | 0.197        | 1.153          | 0.227         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.86       | -0.15       | Right                                    | 0   | 1       | 49        | 1:1        | 10       | 0.095        | 1.159          | 0.110         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.88       | -0.14       | Right                                    | 1   | 50      | 25        | 1:1        | 10       | 0.093        | 1.153          | 0.107         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.86       | 0.05        | Bottom                                   | 0   | 1       | 49        | 1:1        | 10       | 0.399        | 1.159          | 0.462         | -        |
| 1 860   | 26140 | QPSK | 20         | 21.5          | 20.88       | 0.07        | Bottom                                   | 1   | 50      | 25        | 1:1        | 10       | 0.405        | 1.153          | 0.467         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

| LTE Band 26 Hotspot SAR _ Ant. #1   |       |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.13       | Rear                                     | 0   | 1       | 0         | 1:1        | 10       | 0.588        | 1.028          | <b>0.604</b>  | 78       |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.03       | Rear                                     | 1   | 36      | 0         | 1:1        | 10       | 0.478        | 1.074          | 0.513         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.17       | Front                                    | 0   | 1       | 0         | 1:1        | 10       | 0.231        | 1.028          | 0.237         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.17       | Front                                    | 1   | 36      | 0         | 1:1        | 10       | 0.188        | 1.074          | 0.202         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.11       | Left                                     | 0   | 1       | 0         | 1:1        | 10       | 0.123        | 1.028          | 0.126         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.14       | Left                                     | 1   | 36      | 0         | 1:1        | 10       | 0.094        | 1.074          | 0.101         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | 0.18        | Right                                    | 0   | 1       | 0         | 1:1        | 10       | 0.132        | 1.028          | 0.136         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | -0.11       | Right                                    | 1   | 36      | 0         | 1:1        | 10       | 0.162        | 1.074          | 0.174         | -        |
| 831.5   | 26865 | QPSK | 15         | 25.0          | 24.88       | -0.04       | Bottom                                   | 0   | 1       | 0         | 1:1        | 10       | 0.209        | 1.028          | 0.215         | -        |
| 831.5   | 26865 | QPSK | 15         | 24.0          | 23.69       | 0.03        | Bottom                                   | 1   | 36      | 0         | 1:1        | 10       | 0.183        | 1.074          | 0.197         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

| LTE Band 30 Hotspot SAR _ Ant. #2   |       |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |  |     |         |           |            |          |              |                |               |          |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.87       | -0.17       | Rear                                     | 0   | 1       | 24        | 1:1        | 10       | 0.434        | 1.297          | 0.563         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.83       | -0.11       | Rear                                     | 1   | 25      | 24        | 1:1        | 10       | 0.449        | 1.309          | <b>0.588</b>  | 79       |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.87       | 0.17        | Front                                    | 0   | 1       | 24        | 1:1        | 10       | 0.064        | 1.297          | 0.083         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.83       | 0.11        | Front                                    | 1   | 25      | 24        | 1:1        | 10       | 0.066        | 1.309          | 0.086         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.87       | 0.07        | Left                                     | 0   | 1       | 24        | 1:1        | 10       | 0.205        | 1.297          | 0.266         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.83       | 0.17        | Left                                     | 1   | 25      | 24        | 1:1        | 10       | 0.214        | 1.309          | 0.280         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.87       | 0.11        | Top                                      | 0   | 1       | 24        | 1:1        | 10       | 0.037        | 1.297          | 0.048         | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0          | 18.83       | 0.01        | Top                                      | 1   | 25      | 24        | 1:1        | 10       | 0.038        | 1.309          | 0.050         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |              |                |               |          |

| LTE TDD Band 40 Hotspot SAR – Lower frequency range_ Ant. #2  |       |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.59        | -0.12       | Rear          | 0  | 1       | 24        | 1:1.58     | 10       | 0.054        | 1.384          | <b>0.075</b>  | 80       |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.60        | -0.12       | Rear          | 0  | 25      | 24        | 1:1.58     | 10       | 0.053        | 1.380          | 0.073         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.59        | -0.18       | Front         | 0  | 1       | 24        | 1:1.58     | 10       | 0.00792      | 1.384          | 0.011         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.60        | 0.10        | Front         | 0  | 25      | 24        | 1:1.58     | 10       | 0.00765      | 1.380          | 0.011         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.59        | 0.16        | Left          | 0  | 1       | 24        | 1:1.58     | 10       | 0.022        | 1.384          | 0.030         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.60        | 0.05        | Left          | 0  | 25      | 24        | 1:1.58     | 10       | 0.022        | 1.380          | 0.030         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.59        | -0.12       | Top           | 0  | 1       | 24        | 1:1.58     | 10       | 0.00189      | 1.384          | 0.003         | -        |
| 2 310   | 38750 | QPSK | 10         | 11            | 9.60        | -0.15       | Top           | 0  | 25      | 24        | 1:1.58     | 10       | 0.00109      | 1.380          | 0.002         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |              |                |               |          |

| LTE TDD Band 40 Hotspot SAR – Upper frequency rang_ Ant. #2   |       |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.75        | -0.11       | Rear          | 0  | 1       | 0         | 1:1.58     | 10       | 0.060        | 1.334          | <b>0.080</b>  | 81       |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.66        | -0.19       | Rear          | 0  | 25      | 0         | 1:1.58     | 10       | 0.057        | 1.361          | 0.078         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.75        | 0.13        | Front         | 0  | 1       | 0         | 1:1.58     | 10       | 0.00892      | 1.334          | 0.012         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.66        | 0.10        | Front         | 0  | 25      | 0         | 1:1.58     | 10       | 0.00864      | 1.361          | 0.012         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.75        | 0.10        | Left          | 0  | 1       | 0         | 1:1.58     | 10       | 0.024        | 1.334          | 0.032         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.66        | 0.09        | Left          | 0  | 25      | 0         | 1:1.58     | 10       | 0.024        | 1.361          | 0.033         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.75        | -0.15       | Top           | 0  | 1       | 0         | 1:1.58     | 10       | 0.00475      | 1.334          | 0.006         | -        |
| 2 355   | 39200 | QPSK | 10         | 11            | 9.66        | -0.11       | Top           | 0  | 25      | 0         | 1:1.58     | 10       | 0.00457      | 1.361          | 0.006         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |              |                |               |          |

| LTE TDD Band 41 Hotspot SAR (Power Class 3)_ Ant. #2  |       |      |            |               |             |             |               |  |         |           |            |               |              |                |               |              |    |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|---------------|--------------|----------------|---------------|--------------|----|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR (dB)                                 | RB Size | RB offset | Duty Cycle | Distance (mm) | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No.     |    |
| Mhz   | Ch.   |      | (Mhz)      | (dBm)         | (dBm)       | (dB)        |               |  |         |           |            |               | (W/kg)       |                | (W/kg)        |              |    |
| 2 506.0   | 39750 | QPSK | 20         | 21.0          | 19.88       | -0.17       | Rear          | 0  | 1       | 0         | 1:1.58     | 10            | 0.274        | 1.294          | 0.355         | -            |    |
| 2 549.5   | 40185 | QPSK | 20         | 21.0          | 19.87       | -0.08       | Rear          | 0  | 1       | 49        | 1:1.58     | 10            | 0.683        | 1.297          | 0.886         | -            |    |
| 2 593.0   | 40620 | QPSK | 20         | 21.0          | 20.43       | -0.19       | Rear          | 0  | 1       | 49        | 1:1.58     | 10            | 0.712        | 1.140          | 0.812         | -            |    |
| 2 636.5   | 41055 | QPSK | 20         | 21.0          | 20.41       | -0.10       | Rear          | 0  | 1       | 49        | 1:1.58     | 10            | 0.523        | 1.146          | 0.599         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.70       | 0.11        | Rear          | 0  | 1       | 49        | 1:1.58     | 10            | 0.627        | 1.072          | 0.672         | -            |    |
| 2 506.0   | 39750 | QPSK | 20         | 21.0          | 19.71       | 0.01        | Rear          | 0  | 50      | 0         | 1:1.58     | 10            | 0.286        | 1.346          | 0.385         | -            |    |
| 2 549.5   | 40185 | QPSK | 20         | 21.0          | 19.89       | -0.19       | Rear          | 0  | 50      | 49        | 1:1.58     | 10            | 0.743        | 1.291          | 0.959         | -            |    |
| 2 593.0   | 40620 | QPSK | 20         | 21.0          | 20.39       | -0.15       | Rear          | 0  | 50      | 0         | 1:1.58     | 10            | 0.758        | 1.151          | 0.872         | -            |    |
| 2 636.5   | 41055 | QPSK | 20         | 21.0          | 20.43       | -0.12       | Rear          | 0  | 50      | 25        | 1:1.58     | 10            | 0.577        | 1.140          | 0.658         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.69       | 0.10        | Rear          | 0  | 50      | 49        | 1:1.58     | 10            | 0.663        | 1.074          | 0.712         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.67       | -0.16       | Rear          | 0  | 100     | 0         | 1:1.58     | 10            | 0.798        | 1.079          | 0.861         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.70       | -0.12       | Front         | 0  | 1       | 49        | 1:1.58     | 10            | 0.211        | 1.072          | 0.226         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.69       | -0.10       | Front         | 0  | 50      | 49        | 1:1.58     | 10            | 0.193        | 1.074          | 0.207         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.70       | 0.04        | Left          | 0  | 1       | 49        | 1:1.58     | 10            | 0.322        | 1.072          | 0.345         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.69       | 0.04        | Left          | 0  | 50      | 49        | 1:1.58     | 10            | 0.353        | 1.074          | 0.379         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.70       | 0.14        | Top           | 0  | 1       | 49        | 1:1.58     | 10            | 0.103        | 1.072          | 0.110         | -            |    |
| 2 680.0   | 41490 | QPSK | 20         | 21.0          | 20.69       | 0.13        | Top           | 0  | 50      | 49        | 1:1.58     | 10            | 0.109        | 1.074          | 0.117         | -            |    |
| <b>Up-link Carrier Aggregation (41C)</b>  |       |      |            |               |             |             |               |  |         |           |            |               |              |                |               |              |    |
| 2 549.5   | 40185 | QPSK | PCC        | 20            | 21.0        | 20.66       | 0.02          | Rear                                     | 0       | 50        | 49         | 1:1.58        | 10           | 0.812          | 1.081         | <b>0.878</b> | 82 |
| 2 569.3   | 40383 | QPSK | SCC        | 20            |             |             |               |  |         | 50        | 0          |               |              |                |               |              |    |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |               |              |                |               |              |    |

| LTE TDD Band 48 Hotspot SAR _ Ant. SUB #4   |       |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
|---|-------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|--------------|----------------|---------------|----------|
| Frequency   |       | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | 1g Meas. SAR | Scaling Factor | 1g Scaled SAR | Plot No. |
| Mhz   | Ch.   |      |            |               |             |             |               |  |         |           |            |          |              |                |               |          |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.71       | 0.01        | Rear          | 0  | 1       | 0         | 1:1.58     | 10       | 0.237        | 1.069          | 0.253         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.82       | 0.01        | Rear          | 0  | 50      | 0         | 1:1.58     | 10       | 0.238        | 1.042          | 0.248         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.71       | 0.19        | Front         | 0  | 1       | 0         | 1:1.58     | 10       | 0.233        | 1.069          | 0.249         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.82       | 0.13        | Front         | 0  | 50      | 0         | 1:1.58     | 10       | 0.205        | 1.042          | 0.214         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.71       | 0.19        | Left          | 0  | 1       | 0         | 1:1.58     | 10       | 0.072        | 1.069          | 0.077         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.82       | -0.17       | Left          | 0  | 50      | 0         | 1:1.58     | 10       | 0.071        | 1.042          | 0.074         | -        |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.71       | -0.02       | Top           | 0  | 1       | 0         | 1:1.58     | 10       | 0.283        | 1.069          | <b>0.303</b>  | 83       |
| 3 560.0   | 55340 | QPSK | 20         | 20.0          | 19.82       | -0.16       | Top           | 0  | 50      | 0         | 1:1.58     | 10       | 0.283        | 1.042          | 0.295         | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |              |                |               |          |

| LTE Band 66 Hotspot SAR _ Ant. #1   |        |      |            |               |             |             |               |  |         |           |            |          |           |                |              |          |
|---|--------|------|------------|---------------|-------------|-------------|---------------|--|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency   |        | Mode | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | MPR                                      | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.    |      |            |               |             |             |               |  |         |           |            |          |           |                |              |          |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 20.95       | -0.01       | Rear          | 0  | 1       | 49        | 1:1        | 10       | 0.359     | 1.135          | 0.407        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 21.02       | -0.10       | Rear          | 1  | 50      | 49        | 1:1        | 10       | 0.364     | 1.117          | <b>0.407</b> | 84       |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 20.95       | -0.11       | Front         | 0  | 1       | 49        | 1:1        | 10       | 0.181     | 1.135          | 0.205        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 21.02       | -0.03       | Front         | 1  | 50      | 49        | 1:1        | 10       | 0.181     | 1.117          | 0.202        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 20.95       | -0.12       | Left          | 0  | 1       | 49        | 1:1        | 10       | 0.154     | 1.135          | 0.175        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 21.02       | -0.10       | Left          | 1  | 50      | 49        | 1:1        | 10       | 0.139     | 1.117          | 0.155        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 20.95       | 0.07        | Right         | 0  | 1       | 49        | 1:1        | 10       | 0.078     | 1.135          | 0.089        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 21.02       | -0.16       | Right         | 1  | 50      | 49        | 1:1        | 10       | 0.088     | 1.117          | 0.098        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 20.95       | 0.01        | Bottom        | 0  | 1       | 49        | 1:1        | 10       | 0.219     | 1.135          | 0.249        | -        |
| 1 745   | 132322 | QPSK | 20         | 21.5          | 21.02       | 0.01        | Bottom        | 1  | 50      | 49        | 1:1        | 10       | 0.225     | 1.117          | 0.251        | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |      |            |               |             |             |               | Body<br>1.6 W/kg<br>Averaged over 1 gram |         |           |            |          |           |                |              |          |



| LTE Band 71 Hotspot SAR_ Ant. #1  |        |      |                  |                     |                   |                  |  |          |         |           |            |               |                  |                |                   |          |
|---|--------|------|------------------|---------------------|-------------------|------------------|--|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency   |        | Mode | Band width (MHz) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position                            | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz   | Ch.    |      |                  |                     |                   |                  |  |          |         |           |            |               |                  |                |                   |          |
| 680.5   | 133297 | QPSK | 20               | 25.0                | 24.29             | -0.07            | Rear                                     | 0        | 1       | 0         | 1:1        | 10            | 0.419            | 1.178          | <b>0.493</b>      | 85       |
| 680.5   | 133297 | QPSK | 20               | 24.0                | 23.26             | 0.01             | Rear                                     | 0        | 50      | 25        | 1:1        | 10            | 0.4              | 1.186          | 0.474             | -        |
| 680.5   | 133297 | QPSK | 20               | 25.0                | 24.29             | -0.05            | Front                                    | 0        | 1       | 0         | 1:1        | 10            | 0.198            | 1.178          | 0.233             | -        |
| 680.5   | 133297 | QPSK | 20               | 24.0                | 23.26             | -0.07            | Front                                    | 0        | 50      | 25        | 1:1        | 10            | 0.174            | 1.186          | 0.206             | -        |
| 680.5   | 133297 | QPSK | 20               | 25.0                | 24.29             | 0.04             | Left                                     | 0        | 1       | 0         | 1:1        | 10            | 0.141            | 1.178          | 0.166             | -        |
| 680.5   | 133297 | QPSK | 20               | 24.0                | 23.26             | -0.08            | Left                                     | 0        | 50      | 25        | 1:1        | 10            | 0.125            | 1.186          | 0.148             | -        |
| 680.5   | 133297 | QPSK | 20               | 25.0                | 24.29             | -0.08            | Right                                    | 0        | 1       | 0         | 1:1        | 10            | 0.252            | 1.178          | 0.297             | -        |
| 680.5   | 133297 | QPSK | 20               | 24.0                | 23.26             | -0.08            | Right                                    | 0        | 50      | 25        | 1:1        | 10            | 0.23             | 1.186          | 0.273             | -        |
| 680.5   | 133297 | QPSK | 20               | 25.0                | 24.29             | 0.13             | Bottom                                   | 0        | 1       | 0         | 1:1        | 10            | 0.152            | 1.178          | 0.179             | -        |
| 680.5   | 133297 | QPSK | 20               | 24.0                | 23.26             | 0.03             | Bottom                                   | 0        | 50      | 25        | 1:1        | 10            | 0.146            | 1.186          | 0.173             | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |      |                  |                     |                   |                  | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |         |           |            |               |                  |                |                   |          |

| NR Band n5 Hotspot SAR_ Ant. #1   |        |                 |                  |                     |                   |                  |  |          |         |           |            |               |                  |                |                   |          |
|---|--------|-----------------|------------------|---------------------|-------------------|------------------|--|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency   |        | Mode            | Band width (MHz) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position                            | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| Mhz   | Ch.    |                 |                  |                     |                   |                  |  |          |         |           |            |               |                  |                |                   |          |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.54             | -0.11            | Rear                                     | 0        | 1       | 1         | 1:1        | 10            | 0.460            | 1.112          | 0.512             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.41             | -0.12            | Rear                                     | 0        | 50      | 28        | 1:1        | 10            | 0.514            | 1.146          | <b>0.589</b>      | 86       |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.54             | -0.03            | Front                                    | 0        | 1       | 1         | 1:1        | 10            | 0.215            | 1.112          | 0.239             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.41             | -0.06            | Front                                    | 0        | 50      | 28        | 1:1        | 10            | 0.217            | 1.146          | 0.249             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.54             | 0.04             | Left                                     | 0        | 1       | 1         | 1:1        | 10            | 0.131            | 1.112          | 0.146             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.41             | -0.01            | Left                                     | 0        | 50      | 28        | 1:1        | 10            | 0.117            | 1.146          | 0.134             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.54             | -0.06            | Right                                    | 0        | 1       | 1         | 1:1        | 10            | 0.231            | 1.112          | 0.257             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.41             | -0.04            | Right                                    | 0        | 50      | 28        | 1:1        | 10            | 0.260            | 1.146          | 0.298             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.54             | 0.19             | Bottom                                   | 0        | 1       | 1         | 1:1        | 10            | 0.167            | 1.112          | 0.186             | -        |
| 836.5   | 167300 | DFT-s OFDM QPSK | 20               | 25.0                | 24.41             | 0.10             | Bottom                                   | 0        | 50      | 28        | 1:1        | 10            | 0.228            | 1.146          | 0.261             | -        |
| 836.5   | 167300 | CP QPSK         | 20               | 23.5                | 22.97             | -0.02            | Rear                                     | 1.5      | 1       | 1         | 1:1        | 10            | 0.300            | 1.130          | 0.339             | -        |
| ANSI/ IEEE C95.1 – 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |                  |                     |                   |                  | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |         |           |            |               |                  |                |                   |          |



| NR Band n25 Hotspot SAR _ Ant. #1 |        |                 |            |                |             |             |               |     |         |           |            |          |  |                |              |          |
|-----------------------------------|--------|-----------------|------------|----------------|-------------|-------------|---------------|-----|---------|-----------|------------|----------|--|----------------|--------------|----------|
| sppFrequency                      |        | Mode            | Band width | Tune- Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR                                | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz                               | Ch.    |                 |            |                |             |             |               |     |         |           |            |          |  |                |              |          |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.41       | 0.15        | Rear          | 0   | 1       | 53        | 1:1        | 10       | 0.561                                    | 1.021          | <b>0.573</b> | 87       |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.42       | 0.06        | Rear          | 0   | 50      | 28        | 1:1        | 10       | 0.552                                    | 1.019          | 0.562        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.41       | 0.02        | Front         | 0   | 1       | 53        | 1:1        | 10       | 0.278                                    | 1.021          | 0.284        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.42       | 0.06        | Front         | 0   | 50      | 28        | 1:1        | 10       | 0.279                                    | 1.019          | 0.284        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.41       | 0.15        | Left          | 0   | 1       | 53        | 1:1        | 10       | 0.239                                    | 1.021          | 0.244        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.42       | 0.11        | Left          | 0   | 50      | 28        | 1:1        | 10       | 0.240                                    | 1.019          | 0.245        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.41       | 0.17        | Right         | 0   | 1       | 53        | 1:1        | 10       | 0.102                                    | 1.021          | 0.104        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.42       | 0.13        | Right         | 0   | 50      | 28        | 1:1        | 10       | 0.111                                    | 1.019          | 0.113        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.41       | 0.11        | Bottom        | 0   | 1       | 53        | 1:1        | 10       | 0.418                                    | 1.021          | 0.427        | -        |
| 1 905                             | 381000 | DFT-s OFDM QPSK | 20         | 21.5           | 21.42       | -0.01       | Bottom        | 0   | 50      | 28        | 1:1        | 10       | 0.423                                    | 1.019          | 0.431        | -        |
| 1 905                             | 381000 | CP QPSK         | 20         | 21.5           | 21.16       | -0.01       | Rear          | 0   | 1       | 1         | 1:1        | 10       | 0.529                                    | 1.081          | 0.572        | -        |
|                                   |        |                 |            |                |             |             |               |     |         |           |            |          | Body<br>1.6 W/kg<br>Averaged over 1 gram |                |              |          |

| NR Band n41 Hotspot SAR – Power Class 3 _ Ant. #2   |        |                 |            |                |             |             |               |     |         |           |            |          |  |                |              |          |
|---|--------|-----------------|------------|----------------|-------------|-------------|---------------|-----|---------|-----------|------------|----------|--|----------------|--------------|----------|
| Frequency   |        | Mode            | Band width | Tune- Up Limit | Meas. Power | Power Drift | Test Position | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR                                | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.    |                 |            |                |             |             |               |     |         |           |            |          |  |                |              |          |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | -0.15       | Rear          | 0   | 1       | 137       | 1:1        | 10       | 0.482                                    | 1.021          | 0.492        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | -0.14       | Rear          | 0   | 135     | 67        | 1:1        | 10       | 0.560                                    | 1.021          | <b>0.572</b> | 88       |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | -0.14       | Front         | 0   | 1       | 137       | 1:1        | 10       | 0.081                                    | 1.021          | 0.083        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | 0.02        | Front         | 0   | 135     | 67        | 1:1        | 10       | 0.079                                    | 1.021          | 0.081        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | -0.04       | Left          | 0   | 1       | 137       | 1:1        | 10       | 0.253                                    | 1.021          | 0.258        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | 0.08        | Left          | 0   | 135     | 67        | 1:1        | 10       | 0.263                                    | 1.021          | 0.269        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | 0.11        | Top           | 0   | 1       | 137       | 1:1        | 10       | 0.059                                    | 1.021          | 0.060        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0           | 21.91       | 0.11        | Top           | 0   | 135     | 67        | 1:1        | 10       | 0.054                                    | 1.021          | 0.055        | -        |
| 2592.99   | 518598 | CP QPSK         | 100        | 22.0           | 20.86       | -0.07       | Rear          | 0   | 1       | 1         | 1:1        | 10       | 0.248                                    | 1.300          | 0.322        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |                |             |             |               |     |         |           |            |          | Body<br>1.6 W/kg<br>Averaged over 1 gram |                |              |          |

**NR Band n41 Hotspot SAR – Power Class 2 - Ant. #2**

| Frequency   |        | Mode            | Band width | Tune- Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|---|--------|-----------------|------------|----------------|-------------|-------------|--|------|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Mhz   | Ch.    |                 | (Mhz)      | (dBm)          | (dBm)       | (dB)        |  | (dB) | (dB)    | (mm)      |            | (W/kg)   | (W/kg)    |                |              |          |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 24.00       | 0.14        | Rear                                     | 0    | 1       | 137       | 1:1        | 10       | 0.877     | 1.122          | 0.984        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 23.73       | -0.11       | Rear                                     | 0    | 135     | 67        | 1:1        | 10       | 0.756     | 1.194          | 0.903        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 23.45       | -0.12       | Rear                                     | 0    | 270     | 0         | 1:1        | 10       | 0.896     | 1.275          | <b>1.142</b> | 110      |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 24.00       | 0.13        | Front                                    | 0    | 1       | 137       | 1:1        | 10       | 0.073     | 1.122          | 0.082        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 23.73       | -0.15       | Front                                    | 0    | 135     | 67        | 1:1        | 10       | 0.059     | 1.194          | 0.070        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 24.00       | 0.19        | Left                                     | 0    | 1       | 137       | 1:1        | 10       | 0.230     | 1.122          | 0.258        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 23.73       | 0.15        | Left                                     | 0    | 135     | 67        | 1:1        | 10       | 0.336     | 1.194          | 0.401        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 24.00       | -0.18       | Top                                      | 0    | 1       | 137       | 1:1        | 10       | 0.065     | 1.122          | 0.073        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5           | 23.73       | -0.16       | Top                                      | 0    | 135     | 67        | 1:1        | 10       | 0.070     | 1.194          | 0.084        | -        |
| 2592.99   | 518598 | CP QPSK         | 100        | 24.5           | 22.92       | -0.01       | Rear                                     | 0    | 1       | 1         | 1:1        | 10       | 0.741     | 1.439          | 1.066        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |                |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |          |           |                |              |          |

| NR Band n66 Hotspot SAR Ant. #1   |        |                 |            |               |             |             |  |     |         |           |            |          |           |                |            |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR | Plot No. |
| Mhz   | Ch.    |                 |            |               |             |             |  |     |         |           |            |          |           |                |            |          |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.82       | 0.03        | Rear                                     | 0   | 1       | 108       | 1:1        | 10       | 0.547     | 1.042          | 0.570      | 89       |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.74       | 0.07        | Rear                                     | 0   | 108     | 54        | 1:1        | 10       | 0.504     | 1.062          | 0.535      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.82       | 0.18        | Front                                    | 0   | 1       | 108       | 1:1        | 10       | 0.353     | 1.042          | 0.368      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.74       | 0.17        | Front                                    | 0   | 108     | 54        | 1:1        | 10       | 0.328     | 1.062          | 0.348      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.82       | -0.16       | Left                                     | 0   | 1       | 108       | 1:1        | 10       | 0.198     | 1.042          | 0.206      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.74       | 0.16        | Left                                     | 0   | 108     | 54        | 1:1        | 10       | 0.181     | 1.062          | 0.192      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.82       | 0.11        | Right                                    | 0   | 1       | 108       | 1:1        | 10       | 0.126     | 1.042          | 0.131      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.74       | 0.11        | Right                                    | 0   | 108     | 54        | 1:1        | 10       | 0.125     | 1.062          | 0.133      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.82       | -0.02       | Bottom                                   | 0   | 1       | 108       | 1:1        | 10       | 0.340     | 1.042          | 0.354      | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 22.0          | 21.74       | -0.06       | Bottom                                   | 0   | 108     | 54        | 1:1        | 10       | 0.360     | 1.062          | 0.382      | -        |
| 1 745   | 349000 | CP QPSK         | 40         | 22.0          | 20.83       | -0.01       | Rear                                     | 0   | 1       | 1         | 1:1        | 10       | 0.412     | 1.309          | 0.539      | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |           |                |            |          |

| NR Band n71 Hotspot SAR Ant. #1   |        |                 |            |               |             |             |  |     |         |           |            |          |           |                |              |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
| Mhz   | Ch.    |                 |            |               |             |             |  |     |         |           |            |          |           |                |              |          |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.01        | Rear                                     | 0   | 1       | 104       | 1:1        | 10       | 0.395     | 1.172          | <b>0.463</b> | 90       |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.01        | Rear                                     | 0   | 50      | 28        | 1:1        | 10       | 0.354     | 1.216          | 0.430        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | -0.01       | Front                                    | 0   | 1       | 104       | 1:1        | 10       | 0.190     | 1.172          | 0.223        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.01        | Front                                    | 0   | 50      | 28        | 1:1        | 10       | 0.191     | 1.216          | 0.232        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | -0.11       | Left                                     | 0   | 1       | 104       | 1:1        | 10       | 0.135     | 1.172          | 0.158        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.10        | Left                                     | 0   | 50      | 28        | 1:1        | 10       | 0.176     | 1.216          | 0.214        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | -0.14       | Right                                    | 0   | 1       | 104       | 1:1        | 10       | 0.258     | 1.172          | 0.302        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.07        | Right                                    | 0   | 50      | 28        | 1:1        | 10       | 0.272     | 1.216          | 0.331        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.31       | 0.12        | Bottom                                   | 0   | 1       | 104       | 1:1        | 10       | 0.124     | 1.172          | 0.145        | -        |
| 680.5   | 136100 | DFT-s OFDM QPSK | 20         | 25.0          | 24.15       | 0.19        | Bottom                                   | 0   | 50      | 28        | 1:1        | 10       | 0.107     | 1.216          | 0.130        | -        |
| 680.5   | 136100 | CP QPSK         | 20         | 23.5          | 22.29       | -0.06       | Rear                                     | 1.5 | 1       | 1         | 1:1        | 10       | 0.223     | 1.321          | 0.295        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |     |         |           |            |          |           |                |              |          |

| NR Band n77 Hotspot SAR_Ant. SUB #4   |        |                 |            |               |             |             |  |      |         |           |            |          |              |                |              |          |
|---|--------|-----------------|------------|---------------|-------------|-------------|--|------|---------|-----------|------------|----------|--------------|----------------|--------------|----------|
| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | MPR  | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR    | Scaling Factor | Scaled SAR   | Plot No. |
| MHz   | Ch.    |                 | (MHz)      | (dBm)         | (dBm)       | (dB)        |  | (dB) | (dB)    |           |            |          | (mm)         | (W/kg)         | (W/kg)       |          |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.44       | -0.10       | Rear                                     | 0    | 1       | 137       | 1:1        | 10       | 0.284        | 1.014          | 0.288        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.32       | -0.16       | Rear                                     | 0    | 135     | 67        | 1:1        | 10       | 0.252        | 1.042          | 0.263        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.44       | 0.01        | Front                                    | 0    | 1       | 137       | 1:1        | 10       | 0.149        | 1.014          | 0.151        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.32       | 0.10        | Front                                    | 0    | 135     | 67        | 1:1        | 10       | 0.135        | 1.042          | 0.141        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.44       | 0.13        | Left                                     | 0    | 1       | 137       | 1:1        | 10       | 0.139        | 1.014          | 0.141        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.32       | -0.07       | Left                                     | 0    | 135     | 67        | 1:1        | 10       | 0.127        | 1.042          | 0.132        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.44       | -0.13       | Top                                      | 0    | 1       | 137       | 1:1        | 10       | 0.391        | 1.014          | 0.396        | -        |
| 3 750   | 650000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.32       | -0.13       | Top                                      | 0    | 135     | 67        | 1:1        | 10       | 0.457        | 1.042          | 0.476        | -        |
| 3 840   | 656000 | DFT-s OFDM QPSK | 100        | 21.5          | 20.65       | -0.15       | Top                                      | 0    | 135     | 67        | 1:1        | 10       | 0.525        | 1.216          | <b>0.638</b> | 91       |
| 3 930   | 662000 | DFT-s OFDM QPSK | 100        | 21.5          | 21.18       | -0.15       | Top                                      | 0    | 135     | 138       | 1:1        | 10       | <b>0.559</b> | 1.076          | 0.601        | 92       |
| 3 750   | 650000 | CP QPSK         | 100        | 21.5          | 20.20       | -0.14       | Rear                                     | 0    | 1       | 1         | 1:1        | 10       | 0.333        | 1.349          | 0.449        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |      |         |           |            |          |              |                |              |          |

| DTS Hotspot SAR   |     |         |            |           |               |             |  |               |            |               |                    |              |                |                       |                 |          |
|---|-----|---------|------------|-----------|---------------|-------------|--|---------------|------------|---------------|--------------------|--------------|----------------|-----------------------|-----------------|----------|
| Frequency   |     | Mode    | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift                              | Test Position | Duty Cycle | Distance (mm) | Area Scan Peak SAR | 1g Meas. SAR | Scaling Factor | Scaling Factor (Duty) | 1g Reported SAR | Plot No. |
| MHz   | Ch. |         | (MHz)      | (Mbps)    | (dBm)         | (dBm)       | (dB)                                     |               |            |               | (W/kg)             | (W/kg)       |                |                       | (W/kg)          |          |
| 2 412   | 1   | 802.11b | 20         | 1         | 20.0          | 18.96       | 0.01                                     | Rear          | 99.3       | 10            | 1.11               | 0.319        | 1.271          | 1.007                 | <b>0.408</b>    | 93       |
| 2 412   | 1   | 802.11b | 20         | 1         | 20.0          | 18.96       | 0.01                                     | Front         | 99.3       | 10            | 0.126              | 0.063        | 1.271          | 1.007                 | 0.081           | -        |
| 2 412   | 1   | 802.11b | 20         | 1         | 20.0          | 18.96       |  | Left          | 99.3       | 10            | 0.144              |              | 1.271          | 1.007                 |                 | -        |
| 2 412   | 1   | 802.11b | 20         | 1         | 20.0          | 18.96       | 0.13                                     | Top           | 99.3       | 10            | 0.147              | 0.094        | 1.271          | 1.007                 | 0.120           | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |         |            |           |               |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |               |            |               |                    |              |                |                       |                 |          |

| 5 GHz WLAN Hotspot SAR  |     |         |            |           |               |             |  |               |            |               |                    |              |                |                       |                 |          |
|---|-----|---------|------------|-----------|---------------|-------------|--|---------------|------------|---------------|--------------------|--------------|----------------|-----------------------|-----------------|----------|
| Frequency   |     | Mode    | Band width | Data Rate | Tune-Up Limit | Meas. Power | Power Drift                              | Test Position | Duty Cycle | Distance (mm) | Area Scan Peak SAR | 1g Meas. SAR | Scaling Factor | Scaling Factor (Duty) | 1g Reported SAR | Plot No. |
| MHz   | Ch. |         | (MHz)      | (Mbps)    | (dBm)         | (dBm)       | (dB)                                     |               |            |               | (W/kg)             | (W/kg)       |                |                       | (W/kg)          |          |
| 5 795   | 159 | 802.11n | 40         | MCS0      | 18.0          | 16.83       | -0.10                                    | Rear          | 93.7       | 10            | 3.94               | 0.258        | 1.309          | 1.067                 | <b>0.360</b>    | 94       |
| 5 795   | 159 | 802.11n | 40         | MCS0      | 18.0          | 16.83       | 0.10                                     | Front         | 93.7       | 10            | 0.222              | 0.073        | 1.309          | 1.067                 | 0.102           | -        |
| 5 795   | 159 | 802.11n | 40         | MCS0      | 18.0          | 16.83       | -0.06                                    | Left          | 93.7       | 10            | 0.216              | 0.031        | 1.309          | 1.067                 | 0.043           | -        |
| 5 795   | 159 | 802.11n | 40         | MCS0      | 18.0          | 16.83       | 0.16                                     | Top           | 93.7       | 10            | 0.552              | 0.150        | 1.309          | 1.067                 | 0.210           | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |         |            |           |               |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |               |            |               |                    |              |                |                       |                 |          |

**DSS Tethering SAR**

| Frequency   |     | Mode          | Tune-Up Limit | Meas. Power | Power Drift | Test Position                            | Distance | 1g Meas. SAR | Scaling Factor | Scaling Factor | 1g Scaled SAR | Plot No. |
|---|-----|---------------|---------------|-------------|-------------|--|----------|--------------|----------------|----------------|---------------|----------|
| Mhz   | Ch. |               | (dBm)         | (dBm)       | (dB)        |  | (mm)     | (W/kg)       |                | (Duty)         | (W/kg)        |          |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.10        | Rear                                     | 10       | 0.034        | 1.035          | 1.302          | <b>0.046</b>  | 95       |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.02        | Front                                    | 10       | 0.00778      | 1.035          | 1.302          | 0.010         | -        |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.18        | Left                                     | 10       | 0.00101      | 1.035          | 1.302          | 0.001         | -        |
| 2 402   | 0   | Bluetooth DH5 | 9.5           | 9.35        | 0.10        | Top                                      | 10       | 0.00943      | 1.035          | 1.302          | 0.013         | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |               |               |             |             | Body<br>1.6 W/kg<br>Averaged over 1 gram |          |              |                |                |               |          |

### 13.4 Phablet SAR Measurement Considerations

Per FCC KDB 648474 D04v01r03, this device is considered a “Phablet” since the diagonal dimension is greater than 160 mm and less than 200 mm. Therefore, extremity SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR >1.2 W/kg. When hotspot mode applies, 10g SAR required only for the surfaces and edges with hotspot mode scaled to the maximum output power (including tolerance) is 1g SAR > 1.2 W/kg.

### 13.5 Phablet SAR Measurement Results

| LTE Band 7 Phablet SAR 10g_ Ant. #2   |       |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
|---|-------|------|------------|--------------------|------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|----------------------|----------------|-----------------------|----------|
| Frequency   |       | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB)                                  | RB Size | RB Offset | Duty Cycle | Distance (mm) | 10g Meas. SAR (W/kg) | Scaling Factor | 10g Scaled SAR (W/kg) | Plot No. |
| MHz   | Ch.   |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
| 2 560   | 21350 | QPSK | 20         | 25.0               | 24.37            | -0.11            | Rear          | OFF    | 0   | 1       | 49        | 1:1.58     | 12            | 0.524                | 1.156          | 0.606                 | -        |
| 2 560   | 21350 | QPSK | 20         | 24.0               | 23.48            | 0.04             | Rear          | OFF    | 1   | 50      | 25        | 1:1.58     | 12            | 0.464                | 1.127          | 0.523                 | -        |
| 2 560   | 21350 | QPSK | 20         | 25.0               | 24.37            | -0.09            | Left          | OFF    | 0   | 1       | 49        | 1:1.58     | 6             | 0.593                | 1.156          | 0.686                 | -        |
| 2 560   | 21350 | QPSK | 20         | 24.0               | 23.48            | -0.15            | Left          | OFF    | 1   | 50      | 25        | 1:1.58     | 6             | 0.493                | 1.127          | 0.556                 | -        |
| 2 560   | 21350 | QPSK | 20         | 25.0               | 24.37            | -0.11            | Front         | N/A    | 0   | 1       | 49        | 1:1.58     | 0             | 0.472                | 1.156          | 0.546                 | -        |
| 2 560   | 21350 | QPSK | 20         | 24.0               | 23.48            | 0.12             | Front         | N/A    | 1   | 50      | 25        | 1:1.58     | 0             | 0.391                | 1.127          | 0.441                 | -        |
| 2 560   | 21350 | QPSK | 20         | 25.0               | 24.37            | -0.13            | Top           | N/A    | 0   | 1       | 49        | 1:1.58     | 0             | 0.416                | 1.156          | 0.481                 | -        |
| 2 560   | 21350 | QPSK | 20         | 24.0               | 23.48            | -0.02            | Top           | N/A    | 1   | 50      | 25        | 1:1.58     | 0             | 0.344                | 1.127          | 0.388                 | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0               | 18.07            | 0.14             | Rear          | ON     | 0   | 1       | 99        | 1:1.58     | 0             | 0.774                | 1.239          | <b>0.959</b>          | 96       |
| 2 560   | 21350 | QPSK | 20         | 19.0               | 18.17            | 0.05             | Rear          | ON     | 0   | 50      | 49        | 1:1.58     | 0             | <b>0.780</b>         | 1.211          | 0.945                 | 97       |
| 2 560   | 21350 | QPSK | 20         | 19.0               | 18.07            | 0.01             | Left          | ON     | 0   | 1       | 99        | 1:1.58     | 0             | 0.411                | 1.239          | 0.509                 | -        |
| 2 560   | 21350 | QPSK | 20         | 19.0               | 18.17            | -0.12            | Left          | ON     | 0   | 50      | 49        | 1:1.58     | 0             | 0.417                | 1.211          | 0.505                 | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |                    |                  |                  |               |        | Hand<br>4.0 W/kg<br>Averaged over 10 gram |         |           |            |               |                      |                |                       |          |

| LTE Band 30 Phablet SAR 10g_ Ant. #2  |       |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
|---|-------|------|------------|--------------------|------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|----------------------|----------------|-----------------------|----------|
| Frequency   |       | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB)                                  | RB Size | RB Offset | Duty Cycle | Distance (mm) | 10g Meas. SAR (W/kg) | Scaling Factor | 10g Scaled SAR (W/kg) | Plot No. |
| MHz   | Ch.   |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
| 2 310   | 27710 | QPSK | 10         | 24.5               | 24.08            | -0.01            | Rear          | OFF    | 0   | 1       | 24        | 1:1.58     | 12            | 0.413                | 1.102          | 0.455                 | -        |
| 2 310   | 27710 | QPSK | 10         | 23.5               | 23.09            | 0.10B            | Rear          | OFF    | 1   | 25      | 12        | 1:1.58     | 12            | 0.336                | 1.099          | 0.369                 | -        |
| 2 310   | 27710 | QPSK | 10         | 24.5               | 24.08            | -0.01            | Left          | OFF    | 0   | 1       | 24        | 1:1.58     | 6             | 0.457                | 1.102          | 0.504                 | -        |
| 2 310   | 27710 | QPSK | 10         | 23.5               | 23.09            | -0.10            | Left          | OFF    | 1   | 25      | 12        | 1:1.58     | 6             | 0.371                | 1.099          | 0.408                 | -        |
| 2 310   | 27710 | QPSK | 10         | 24.5               | 24.08            | 0.18             | Front         | N/A    | 0   | 1       | 24        | 1:1.58     | 0             | 0.547                | 1.102          | 0.603                 | -        |
| 2 310   | 27710 | QPSK | 10         | 23.5               | 23.09            | 0.01             | Front         | N/A    | 1   | 25      | 12        | 1:1.58     | 0             | 0.444                | 1.099          | 0.488                 | -        |
| 2 310   | 27710 | QPSK | 10         | 24.5               | 24.08            | 0.02             | Top           | N/A    | 0   | 1       | 24        | 1:1.58     | 0             | 0.189                | 1.102          | 0.208                 | -        |
| 2 310   | 27710 | QPSK | 10         | 23.5               | 23.09            | -0.12            | Top           | N/A    | 1   | 25      | 12        | 1:1.58     | 0             | 0.153                | 1.099          | 0.168                 | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0               | 18.72            | -0.19            | Rear          | ON     | 0   | 1       | 24        | 1:1.58     | 0             | <b>0.794</b>         | 1.343          | 1.066                 | 98       |
| 2 310   | 27710 | QPSK | 10         | 20.0               | 18.66            | 0.06             | Rear          | ON     | 0   | 50      | 24        | 1:1.58     | 0             | 0.785                | 1.361          | <b>1.068</b>          | 99       |
| 2 310   | 27710 | QPSK | 10         | 20.0               | 18.72            | -0.15            | Left          | ON     | 0   | 1       | 24        | 1:1.58     | 0             | 0.473                | 1.343          | 0.635                 | -        |
| 2 310   | 27710 | QPSK | 10         | 20.0               | 18.66            | -0.10            | Left          | ON     | 0   | 50      | 24        | 1:1.58     | 0             | 0.474                | 1.361          | 0.645                 | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |                    |                  |                  |               |        | Hand<br>4.0 W/kg<br>Averaged over 10 gram |         |           |            |               |                      |                |                       |          |

| LTE TDD Band 41 Phablet SAR 10g_ Ant. #2  |       |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
|---|-------|------|------------|--------------------|------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|----------------------|----------------|-----------------------|----------|
| Frequency   |       | Mode | Band Width | Tune-Up Limit (dB) | Meas. Power (dB) | Power Drift (dB) | Test Position | Sensor | MPR (dB)                                  | RB Size | RB Offset | Duty Cycle | Distance (mm) | 10g Meas. SAR (W/kg) | Scaling Factor | 10g Scaled SAR (W/kg) | Plot No. |
| MHz   | Ch.   |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
| 2 593   | 40620 | QPSK | 20         | 24.5               | 23.43            | -0.16            | Rear          | OFF    | 0   | 1       | 0         | 1:1.58     | 12            | 0.528                | 1.279          | 0.675                 | -        |
| 2 593   | 40620 | QPSK | 20         | 23.5               | 22.98            | 0.14             | Rear          | OFF    | 1   | 50      | 0         | 1:1.58     | 12            | 0.444                | 1.127          | 0.500                 | -        |
| 2 593   | 40620 | QPSK | 20         | 24.5               | 23.43            | -0.19            | Left          | OFF    | 0   | 1       | 0         | 1:1.58     | 6             | 0.623                | 1.279          | 0.797                 | -        |
| 2 593   | 40620 | QPSK | 20         | 23.5               | 22.98            | -0.10            | Left          | OFF    | 1   | 50      | 0         | 1:1.58     | 6             | 0.465                | 1.127          | 0.524                 | -        |
| 2 593   | 40620 | QPSK | 20         | 24.5               | 23.43            | -0.14            | Front         | N/A    | 0   | 1       | 0         | 1:1.58     | 0             | 0.507                | 1.279          | 0.648                 | -        |
| 2 593   | 40620 | QPSK | 20         | 23.5               | 22.98            | -0.15            | Front         | N/A    | 1   | 50      | 0         | 1:1.58     | 0             | 0.463                | 1.127          | 0.522                 | -        |
| 2 593   | 40620 | QPSK | 20         | 24.5               | 23.43            | 0.12             | Top           | N/A    | 0   | 1       | 0         | 1:1.58     | 0             | 0.306                | 1.279          | 0.391                 | -        |
| 2 593   | 40620 | QPSK | 20         | 23.5               | 22.98            | -0.18            | Top           | N/A    | 1   | 50      | 0         | 1:1.58     | 0             | 0.255                | 1.127          | 0.287                 | -        |
| 2 680   | 41490 | QPSK | 20         | 21.0               | 20.69            | 0.09             | Rear          | ON     | 0   | 1       | 49        | 1:1.58     | 0             | 0.913                | 1.074          | 0.981                 | -        |
| 2 680   | 41490 | QPSK | 20         | 21.0               | 20.65            | 0.16             | Rear          | ON     | 0   | 50      | 0         | 1:1.58     | 0             | 0.941                | 1.084          | 1.020                 | -        |
| 2 680   | 41490 | QPSK | 20         | 21.0               | 20.69            | -0.02            | Left          | ON     | 0   | 1       | 49        | 1:1.58     | 0             | 0.659                | 1.074          | 0.708                 | -        |
| 2 680   | 41490 | QPSK | 20         | 21.0               | 20.65            | 0.10             | Left          | ON     | 0   | 50      | 0         | 1:1.58     | 0             | 0.700                | 1.084          | 0.759                 | -        |
| Up-link Carrier Aggregation (41C)   |       |      |            |                    |                  |                  |               |        |   |         |           |            |               |                      |                |                       |          |
| 2 680.0   | 41490 | QPSK | PCC        | 20                 | 21.0             | 20.7             | 0.02          | Rear   | 0   | 50      | 0         | 1:1.58     | 1.11          | 1.072                | 1.189          | 100                   |          |
| 2 660.2   | 41292 | QPSK | SCC        | 20                 |                  |                  |               |        |   | 50      | 49        |            |               |                      |                |                       |          |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |       |      |            |                    |                  |                  |               |        | Hand<br>4.0 W/kg<br>Averaged over 10 gram |         |           |            |               |                      |                |                       |          |

| NR Band n25 Phablet SAR 10g_ Ant. #1  |        |                 |                  |                     |                   |                  |               |        |   |         |           |            |               |                  |                |                   |          |
|---|--------|-----------------|------------------|---------------------|-------------------|------------------|---------------|--------|---|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Frequency   |        | Mode            | Band width (MHz) | Tune-Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Sensor | MPR (dB)                                  | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
| MHz   | Ch.    |                 |                  |                     |                   |                  |               |        |   |         |           |            |               |                  |                |                   |          |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.67             | 0.01             | Rear          | OFF    | 0   | 1       | 53        | 1:1        | 10            | 0.579            | 1.211          | 0.701             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.77             | 0.02             | Rear          | OFF    | 0   | 50      | 28        | 1:1        | 10            | 0.559            | 1.183          | 0.661             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.67             | -0.19            | Bottom        | OFF    | 0   | 1       | 53        | 1:1        | 3             | 1.37             | 1.211          | 1.659             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.77             | 0.14             | Bottom        | OFF    | 0   | 50      | 28        | 1:1        | 3             | 1.09             | 1.183          | 1.289             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.67             | 0.17             | Front         | N/A    | 0   | 1       | 53        | 1:1        | 0             | 1.54             | 1.211          | 1.865             | 101      |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.77             | 0.10             | Front         | N/A    | 0   | 50      | 28        | 1:1        | 0             | 1.46             | 1.183          | 1.727             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.67             | -0.18            | Left          | N/A    | 0   | 1       | 53        | 1:1        | 0             | 1.29             | 1.211          | 1.562             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.77             | 0.04             | Left          | N/A    | 0   | 50      | 28        | 1:1        | 0             | 1.36             | 1.183          | 1.609             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.67             | 0.10             | Right         | N/A    | 0   | 1       | 53        | 1:1        | 0             | 0.247            | 1.211          | 0.299             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 24.5                | 23.77             | 0.10             | Right         | N/A    | 0   | 50      | 28        | 1:1        | 0             | 0.282            | 1.183          | 0.334             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 18.5                | 17.69             | 0.17             | Rear          | ON     | 0   | 1       | 53        | 1:1        | 0             | 1.05             | 1.205          | 1.265             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 18.5                | 17.60             | 0.16             | Rear          | ON     | 0   | 50      | 28        | 1:1        | 0             | 1.04             | 1.230          | 1.279             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 18.5                | 17.69             | -0.09            | Bottom        | ON     | 0   | 1       | 53        | 1:1        | 0             | 0.530            | 1.205          | 0.639             | -        |
| 1 905   | 381000 | DFT-s OFDM QPSK | 20               | 18.5                | 17.60             | 0.12             | Bottom        | ON     | 0   | 50      | 28        | 1:1        | 0             | 0.529            | 1.230          | 0.651             | -        |
| 1 860   | 372000 | CP QPSK         | 20               | 18.5                | 17.10             | 0.02             | Front         | N/A    | 0   | 1       | 1         | 1:1        | 0             | 1.01             | 1.380          | 1.394             | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |                  |                     |                   |                  |               |        | Hand<br>4.0 W/kg<br>Averaged over 10 gram |         |           |            |               |                  |                |                   |          |



**NR Band n41 Phablet SAR 10g (Power Class 3) - Ant. #2**

| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Sensor                                    | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|---------------|---|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Mhz   | Ch.    |                 |            |               |             |             |               |   |     |         |           |            |          |           |                |              |          |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.29       | 0.18        | Rear          | OFF                                       | 0   | 1       | 137       | 1:1        | 12       | 0.435     | 1.178          | 0.512        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.09       | -0.12       | Rear          | OFF                                       | 0   | 135     | 67        | 1:1        | 12       | 0.363     | 1.233          | 0.448        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.29       | -0.06       | Left          | OFF                                       | 0   | 1       | 137       | 1:1        | 6        | 0.511     | 1.178          | 0.602        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.09       | -0.12       | Left          | OFF                                       | 0   | 135     | 67        | 1:1        | 6        | 0.481     | 1.233          | 0.593        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.29       | 0.03        | Front         | N/A                                       | 0   | 1       | 137       | 1:1        | 0        | 0.389     | 1.178          | 0.458        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.09       | -0.14       | Front         | N/A                                       | 0   | 135     | 67        | 1:1        | 0        | 0.272     | 1.233          | 0.335        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.29       | -0.17       | Top           | N/A                                       | 0   | 1       | 137       | 1:1        | 0        | 0.243     | 1.178          | 0.286        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 25.0          | 24.09       | 0.15        | Top           | N/A                                       | 0   | 135     | 67        | 1:1        | 0        | 0.165     | 1.233          | 0.203        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | -0.14       | Rear          | ON  | 0   | 1       | 137       | 1:1        | 0        | 0.764     | 1.079          | <b>0.824</b> | 102      |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.62       | -0.10       | Rear          | ON  | 0   | 135     | 67        | 1:1        | 0        | 0.665     | 1.091          | 0.726        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.67       | -0.16       | Left          | ON  | 0   | 1       | 137       | 1:1        | 0        | 0.515     | 1.079          | 0.556        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 22.0          | 21.62       | -0.08       | Left          | ON  | 0   | 135     | 67        | 1:1        | 0        | 0.526     | 1.091          | 0.574        | -        |
| 2592.99   | 518598 | CP QPSK         | 100        | 22.0          | 20.64       | -0.10       | Rear          | ON  | 0   | 1       | 1         | 1:1        | 0        | 0.528     | 1.368          | 0.722        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             |               | Hand<br>4.0 W/kg<br>Averaged over 10 gram |     |         |           |            |          |           |                |              |          |

**NR Band n41 Phablet SAR 10g (Power Class 2) - Ant. #2**

| Frequency   |        | Mode            | Band width | Tune-Up Limit | Meas. Power | Power Drift | Test Position | Sensor                                    | MPR | RB Size | RB offset | Duty Cycle | Distance | Meas. SAR | Scaling Factor | Scaled SAR   | Plot No. |
|---|--------|-----------------|------------|---------------|-------------|-------------|---------------|---|-----|---------|-----------|------------|----------|-----------|----------------|--------------|----------|
| Mhz   | Ch.    |                 |            |               |             |             |               |   |     |         |           |            |          |           |                |              |          |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.97       | 0.16        | Rear          | OFF                                       | 0   | 1       | 137       | 1:1        | 12       | 0.333     | 1.007          | 0.335        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.67       | -0.12       | Rear          | OFF                                       | 0   | 135     | 67        | 1:1        | 12       | 0.649     | 1.079          | 0.700        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.97       | 0.15        | Left          | OFF                                       | 0   | 1       | 137       | 1:1        | 6        | 0.321     | 1.007          | 0.323        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.67       | -0.07       | Left          | OFF                                       | 0   | 135     | 67        | 1:1        | 6        | 0.694     | 1.079          | 0.749        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.97       | 0.01        | Front         | N/A                                       | 0   | 1       | 137       | 1:1        | 0        | 0.450     | 1.007          | 0.453        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.67       | 0.10        | Front         | N/A                                       | 0   | 135     | 67        | 1:1        | 0        | 0.532     | 1.079          | 0.574        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.97       | -0.10       | Top           | N/A                                       | 0   | 1       | 137       | 1:1        | 0        | 0.308     | 1.007          | 0.310        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 27.0          | 26.67       | -0.16       | Top           | N/A                                       | 0   | 135     | 67        | 1:1        | 0        | 0.412     | 1.079          | 0.445        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.00       | -0.17       | Rear          | ON  | 0   | 1       | 137       | 1:1        | 0        | 0.819     | 1.122          | 0.919        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.73       | -0.18       | Rear          | ON  | 0   | 135     | 67        | 1:1        | 0        | 1.12      | 1.194          | <b>1.337</b> | 111      |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 24.00       | 0.10        | Left          | ON  | 0   | 1       | 137       | 1:1        | 0        | 0.236     | 1.122          | 0.265        | -        |
| 2592.99   | 518598 | DFT-s OFDM QPSK | 100        | 24.5          | 23.73       | 0.02        | Left          | ON  | 0   | 135     | 67        | 1:1        | 0        | 0.808     | 1.194          | 0.965        | -        |
| 2592.99   | 518598 | CP QPSK         | 100        | 24.5          | 22.95       | -0.02       | Rear          | ON  | 0   | 1       | 1         | 1:1        | 0        | 0.818     | 1.429          | 1.169        | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |               |             |             |               | Hand<br>4.0 W/kg<br>Averaged over 10 gram |     |         |           |            |          |           |                |              |          |



**NR Band n66 Phablet SAR 10g \_ Ant. #1**

| Frequency   |        | Mode            | Band width | Tune- Up Limit | Meas. Power | Power Drift | Test Position | Sensor                                    | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
|---|--------|-----------------|------------|----------------|-------------|-------------|---------------|---|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Mhz   | Ch.    |                 | (MHz)      | (dBm)          | (dBm)       | (dB)        |               |   |          |         |           |            |               |                  |                |                   |          |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.03       | 0.03        | Rear          | OFF                                       | 0        | 1       | 108       | 1:1        | 10            | 0.490            | 1.250          | 0.613             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.51       | 0.03        | Rear          | OFF                                       | 0        | 108     | 54        | 1:1        | 10            | 0.490            | 1.119          | 0.548             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.03       | 0.01        | Bottom        | OFF                                       | 0        | 1       | 108       | 1:1        | 3             | 1.33             | 1.250          | 1.663             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.51       | -0.06       | Bottom        | OFF                                       | 0        | 108     | 54        | 1:1        | 3             | 1.28             | 1.119          | 1.432             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.03       | 0.13        | Front         | N/A                                       | 0        | 1       | 108       | 1:1        | 0             | 1.41             | 1.250          | <b>1.763</b>      | 103      |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.51       | 0.17        | Front         | N/A                                       | 0        | 108     | 54        | 1:1        | 0             | 1.42             | 1.119          | 1.589             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.03       | -0.13       | Left          | N/A                                       | 0        | 1       | 108       | 1:1        | 0             | 1.02             | 1.250          | 1.275             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.51       | -0.14       | Left          | N/A                                       | 0        | 108     | 54        | 1:1        | 0             | 1.15             | 1.119          | 1.287             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.03       | 0.10        | Right         | N/A                                       | 0        | 1       | 108       | 1:1        | 0             | 0.155            | 1.250          | 0.194             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 25.0           | 24.51       | 0.10        | Right         | N/A                                       | 0        | 108     | 54        | 1:1        | 0             | 0.305            | 1.119          | 0.341             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 21.0           | 20.87       | 0.14        | Rear          | ON  | 0        | 1       | 108       | 1:1        | 0             | 1.38             | 1.030          | 1.421             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 21.0           | 20.81       | 0.12        | Rear          | ON  | 0        | 108     | 54        | 1:1        | 0             | <b>1.50</b>      | 1.045          | 1.568             | 104      |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 21.0           | 20.87       | -0.13       | Bottom        | ON  | 0        | 1       | 108       | 1:1        | 0             | 1.01             | 1.030          | 1.040             | -        |
| 1 745   | 349000 | DFT-s OFDM QPSK | 40         | 21.0           | 20.81       | -0.19       | Bottom        | ON  | 0        | 108     | 54        | 1:1        | 0             | 1.01             | 1.045          | 1.055             | -        |
| 1 745   | 349000 | CP QPSK         | 40         | 21.0           | 19.94       | -0.18       | Front         | N/A                                       | 0        | 1       | 1         | 1:1        | 0             | 1.02             | 1.276          | 1.302             | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |                |             |             |               | Hand<br>4.0 W/kg<br>Averaged over 10 gram |          |         |           |            |               |                  |                |                   |          |

**NR Band n77 Phablet SAR 10g \_ Ant. #3**

| Frequency   |        | Mode            | Band width | Tune- Up Limit | Meas. Power | Power Drift | Test Position | Sensor                                    | MPR (dB) | RB Size | RB offset | Duty Cycle | Distance (mm) | Meas. SAR (W/kg) | Scaling Factor | Scaled SAR (W/kg) | Plot No. |
|---|--------|-----------------|------------|----------------|-------------|-------------|---------------|---|----------|---------|-----------|------------|---------------|------------------|----------------|-------------------|----------|
| Mhz   | Ch.    |                 | (MHz)      | (dBm)          | (dBm)       | (dB)        |               |   |          |         |           |            |               |                  |                |                   |          |
| 3750  | 650000 | DFT-s OFDM QPSK | 100        | 24.5           | 24.40       | -0.10       | Top           | N/A                                       | 0        | 1       | 137       | 1:1        | 0             | 0.762            | 1.023          | 0.780             | -        |
| 3750  | 650000 | DFT-s OFDM QPSK | 100        | 24.5           | 24.30       | -0.14       | Top           | N/A                                       | 0        | 135     | 67        | 1:1        | 0             | 0.763            | 1.047          | <b>0.799</b>      | 105      |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |        |                 |            |                |             |             |               | Hand<br>4.0 W/kg<br>Averaged over 10 gram |          |         |           |            |               |                  |                |                   |          |

Phablet SAR of n77 were measured at Top side because the hotspot SAR measurement results were scaled up to the tune up limit of maximum power, and only the top side exceeded 1.2W/kg.

**5 GHz WLAN Phablet SAR 10g**

| Frequency   |     | Mode    | Band width (MHz) | Data Rate (Mbps) | Tune- Up Limit (dBm) | Meas. Power (dBm) | Power Drift (dB) | Test Position | Duty Cycle | Distance (mm) | Area Scan Peak SAR (W/kg)                 | 10g Meas. SAR (W/kg) | Scaling Factor | Scaling Factor (Duty) | 10g Scaled SAR (W/kg) | Plot No. |
|---|-----|---------|------------------|------------------|----------------------|-------------------|------------------|---------------|------------|---------------|---|----------------------|----------------|-----------------------|-----------------------|----------|
| Mhz   | Ch. |         |                  |                  |                      |                   |                  |               |            |               |   |                      |                |                       |                       |          |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                 | 17.37             | 0.01             | Rear          | 93.7       | 0             | 17.1                                      | <b>1.01</b>          | 1.156          | 1.067                 | 1.246                 | 106      |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                 | 17.37             | 0.01             | Front         | 93.7       | 0             | 1.69                                      | 0.140                | 1.156          | 1.067                 | 0.173                 | -        |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                 | 17.37             | -0.17            | Left          | 93.7       | 0             | 0.858                                     | 0.052                | 1.156          | 1.067                 | 0.064                 | -        |
| 5 270   | 54  | 802.11n | 40               | MCS0             | 18.0                 | 17.37             | 0.07             | Top           | 93.7       | 0             | 2.95                                      | 0.309                | 1.156          | 1.067                 | 0.381                 | -        |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                 | 16.95             | -0.10            | Rear          | 93.7       | 0             | 15.96                                     | 1.01                 | 1.274          | 1.067                 | <b>1.373</b>          | 107      |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                 | 16.95             | 0.10             | Front         | 93.7       | 0             | 3.86                                      | 0.228                | 1.274          | 1.067                 | 0.310                 | -        |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                 | 16.95             | -0.10            | Left          | 93.7       | 0             | 2.53                                      | 0.159                | 1.274          | 1.067                 | 0.216                 | -        |
| 5 590   | 118 | 802.11n | 40               | MCS0             | 18.0                 | 16.95             | 0.12             | Top           | 93.7       | 0             | 1.98                                      | 0.189                | 1.274          | 1.067                 | 0.257                 | -        |
| ANSI/ IEEE C95.1 - 2005 – Safety Limit<br>Spatial Peak<br>Uncontrolled Exposure/ General Population |     |         |                  |                  |                      |                   |                  |               |            |               | Hand<br>4.0 W/kg<br>Averaged over 10 gram |                      |                |                       |                       |          |

## 13.6 SAR Test Notes

### General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Procedure.
2. Batteries are fully charged at the beginning of the SAR measurements. A standard battery was used for all SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB 648474 D04v01r03, SAR was evaluated without a headset connected to the device. Since the standalone reported SAR was 1.2 W/kg, no additional SAR evaluation using a headset cable were required.
8. Per KDB 648474 D04v01r03, this device is considered a "Phablet" since the diagonal dimension is > 160 mm and < 200 mm. When hotspot mode applies, extremity SAR is required only for the surfaces and edges with hotspot mode scaled to the maximum output power (with tolerance) is 1 g SAR > 1.2 W/kg.
9. Per FCC KDB 865664 D01v01r04, variability SAR measurement were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg for 1g SAR and >2 for 10g SAR Please see Section 15 for variability analysis.
10. This device utilizes power reduction for some wireless mode and technologies, as outlined in sec. 4 The maximum output power allowed for each transmitter and exposure condition was evaluated for SAR compliance based on expected use conditions and simultaneous scenarios.
11. During SAR testing for the Hotspot conditions per KDB 941225 D06v02r01, the actual portable hotspot operation (with actual simultaneous transmission of a transmitter with WiFi) was not activated.

### CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.
3. CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is  $\leq 0.8$  W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel was used.

**GSM/GPRS Test Notes:**

1. This EUT'S GSM and GPRS device class is B.
2. This device does not support GPRS VOIP .
3. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
4. Justification for reduced test configurations per KDB 941225 D01v03r01: The source-based time-averaged output power was evaluated for all multi-slot operations. The multi-slot configuration with the highest frame averaged output power including tolerance was evaluated for SAR.
5. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is 1/2 dB, instead of the middle channel, the highest output power channel must be used.

**UMTS Notes:**

1. The 12.2 kbps RMC mode is the primary mode per KDB 941225 D01v03r01.
2. UMTS SAR was tested under RMC 12.2 kbps with HSPA inactive per KDB publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
3. Per FCC KDB 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the channel highest output power channel was used.
4. When Power back-off of UMTS B4/B2 are applied, MPR of HSUPA is set to 0.

**LTE Notes:**

1. LTE Considerations: LTE test configurations are determined according to SAR Evaluation Consideration for LTE Devices in FCC KDB 941225 D05v02r05.
2. According to FCC KDB 941225 D05v02r05:  
When the reported SAR is 0.8 W/kg, testing of the 100% RB allocation and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the 1RB, 50%RB and 100%RB allocation with highest output power for that channel.  
Only one channel, and as reported SAR values for 1RB allocation and 50%RB allocation were less than 1.45 W/Kg only the highest power RB offset for each allocation was required.
3. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to target MPR is indicated alongside the SAR results.
4. When Power reduction is applied, MPR is 0.
5. A-MPR was disabled for all SAR tests by setting NS=01 on the base station simulator.
6. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) LTE TDD Band 41 SAR measured at the highest output power channel for each test configuration is 0.6 W/kg then testing at the other channels is not required for such test configurations.
7. TDD LTE B41 (Power Class 3) was tested using UL-DL configuration 0 with 6 UL sub frames and 2S sub frames using extended cyclic prefix only and special sub frame configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Sec. 4, the duty factor using extended cyclic prefix is 0.633(cf=1.58).
8. Per KDB 941225 D05Av01r02, SAR for LTE Carrier Aggregation operations was not needed because the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink CA was not activated.
9. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The Highest available duty cycle for Power Class 2 operations is 43.3% using UL-DL configuration 1. Per May TCB

Workshop notes, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions.

10. This device supports LTE Carrier Aggregation(CA) in Uplink for LTE 41C with two component carriers in the uplink. SAR measurements and conducted powers were evaluated per Fall 2017 TCBC Workshop notes (LTE Carrier aggregation).

For LTE Band 41, per 2017 TCBC Workshop notes ,SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active.

Because the maximum output for UL CA of LTE 41C is  $\leq$  standalone LTE mode (without CA), SAR for LTE41C Up link CA was performed at the highest standalone SAR configuration without CA and also UL CA SAR is not required for all required test channels, Because the reported SAR for UL CA configuration is  $< 1.4$  W/kg.

The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

#### NR Notes:

1. Due to Limitations of the SAR measurement equipment, SAR testing for NR was performed using test mode (FTM) software.
2. More detailed specifications of the NR bands are contained in the Technical description document.
3. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
4. For NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
5. For final implementation, TDD NR slot configuration is synchronized using maximum duty cycle of 100%.

#### WLAN Notes:

1. For held-to-ear and hotspot operations, the initial test position procedures were applied. For initial test position, the highest extrapolated peak SAR will be used. When reported SAR for the initial test position is  $\leq 0.4$  W/kg for 1g SAR and  $\leq 1.0$  W/kg for 10g SAR, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR results is  $\leq 0.8$  W/kg for 1g SAR and  $\leq 2.0$  W/kg for 10g SAR or all test position are measured.

2. Per KDB 2482227 D01v02r02 justification for test configurations of 2.4 GHz WiFi Single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11 g/n) was not required due to the maximum allowed powers and the highest reported DSSS SAR

3. Per KDB 2482227 D01v02r02 justification for test configurations of 5 GHz WiFi Single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission mode were not investigated since the highest reported SAR for initial test configuration adjusted by the ration of maximum output powers is less than 1.2 W/kg for 1g SAR and less than 3.0 W/kg for 10 g SAR.

4. When the maximum reported 1g averaged SAR is  $\leq 0.8$  W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was  $\leq 1.20$  W/kg or all test channels were measured.

5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated WLAN test reports.

**Bluetooth Notes:**

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests mode type. Per October 2016 TCBC Workshop Notes, the reported SAR was scaled to 100% transmission duty factor to determine compliance. Please see sec.11 for the time-domain plot and calculation for duty factor of the device.
2. Head and Bluetooth tethering SAR were evaluated for BT BR tethering applications.

## 14. Simultaneous SAR Analysis

### 14.1 Head SAR Simultaneous Transmission Analysis.

| Simultaneous Transmission Summation Scenario (Head SAR) |          |                  |                |               |                  |                  |                  |                  |                   |
|---|----------|------------------|----------------|---------------|------------------|------------------|------------------|------------------|-------------------|
| Band  | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | SPLSR<br>(Yes/No) |
|   | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)           | (W/kg)           | (W/kg)           | (W/kg)           |                   |
|   | 1        | 2                | 3              | 4             | 1+2              | 1+3              | 1+4              | 1+3+4            |                   |
| EVDO BC10 (§90S)  | 0.279    | 0.248            | 0.342          | 0.059         | 0.527            | 0.621            | 0.338            | 0.680            | No                |
| EVDO BC0 (§22H)   | 0.168    | 0.248            | 0.342          | 0.059         | 0.416            | 0.510            | 0.227            | 0.569            | No                |
| PCS CDMA/EVDO   | 0.282    | 0.248            | 0.342          | 0.059         | 0.530            | 0.624            | 0.341            | 0.683            | No                |
| GSM 850   | 0.381    | 0.248            | 0.342          | 0.059         | 0.629            | 0.723            | 0.440            | 0.782            | No                |
| GPRS 850  | 0.506    | 0.248            | 0.342          | 0.059         | 0.754            | 0.848            | 0.565            | 0.907            | No                |
| GSM 1900  | 0.121    | 0.248            | 0.342          | 0.059         | 0.369            | 0.463            | 0.180            | 0.522            | No                |
| GPRS 1900   | 0.173    | 0.248            | 0.342          | 0.059         | 0.421            | 0.515            | 0.232            | 0.574            | No                |
| UMTS 850  | 0.347    | 0.248            | 0.342          | 0.059         | 0.595            | 0.689            | 0.406            | 0.748            | No                |
| UMTS 1700   | 0.252    | 0.248            | 0.342          | 0.059         | 0.500            | 0.594            | 0.311            | 0.653            | No                |
| UMTS 1900   | 0.265    | 0.248            | 0.342          | 0.059         | 0.513            | 0.607            | 0.324            | 0.666            | No                |
| LTE Band 7  | 0.569    | 0.248            | 0.342          | 0.059         | 0.817            | 0.911            | 0.628            | 0.970            | No                |
| LTE Band 12   | 0.295    | 0.248            | 0.342          | 0.059         | 0.543            | 0.637            | 0.354            | 0.696            | No                |
| LTE Band 13   | 0.381    | 0.248            | 0.342          | 0.059         | 0.629            | 0.723            | 0.440            | 0.782            | No                |
| LTE Band 14   | 0.281    | 0.248            | 0.342          | 0.059         | 0.529            | 0.623            | 0.340            | 0.682            | No                |
| LTE Band 25   | 0.192    | 0.248            | 0.342          | 0.059         | 0.440            | 0.534            | 0.251            | 0.593            | No                |
| LTE Band 26   | 0.245    | 0.248            | 0.342          | 0.059         | 0.493            | 0.587            | 0.304            | 0.646            | No                |
| LTE Band 30   | 0.519    | 0.248            | 0.342          | 0.059         | 0.767            | 0.861            | 0.578            | 0.920            | No                |
| LTE Band 40 Low   | 0.037    | 0.248            | 0.342          | 0.059         | 0.285            | 0.379            | 0.096            | 0.438            | No                |
| LTE Band 40 Upper                                       | 0.042    | 0.248            | 0.342          | 0.059         | 0.290            | 0.384            | 0.101            | 0.443            | No                |
| LTE Band 41   | 0.346    | 0.248            | 0.342          | 0.059         | 0.594            | 0.688            | 0.405            | 0.747            | No                |
| LTE Band 48   | 0.521    | 0.248            | 0.342          | 0.059         | 0.769            | 0.863            | 0.580            | 0.922            | No                |
| LTE Band 66   | 0.182    | 0.248            | 0.342          | 0.059         | 0.430            | 0.524            | 0.241            | 0.583            | No                |
| LTE Band 71   | 0.236    | 0.248            | 0.342          | 0.059         | 0.484            | 0.578            | 0.295            | 0.637            | No                |
| NR Band n5  | 0.266    | 0.248            | 0.342          | 0.059         | 0.514            | 0.608            | 0.325            | 0.667            | No                |
| NR Band n25   | 0.362    | 0.248            | 0.342          | 0.059         | 0.610            | 0.704            | 0.421            | 0.763            | No                |
| NR Band n41 (PC3)                                       | 0.454    | 0.248            | 0.342          | 0.059         | 0.702            | 0.796            | 0.513            | 0.855            | No                |
| NR Band n41 (PC2)                                       | 0.508    | 0.248            | 0.342          | 0.059         | 0.756            | 0.850            | 0.567            | 0.909            | No                |
| NR Band n66   | 0.266    | 0.248            | 0.342          | 0.059         | 0.514            | 0.608            | 0.325            | 0.667            | No                |
| NR Band n71   | 0.231    | 0.248            | 0.342          | 0.059         | 0.479            | 0.573            | 0.290            | 0.632            | No                |
| NR Band n77   | 0.352    | 0.248            | 0.342          | 0.059         | 0.600            | 0.694            | 0.411            | 0.753            | No                |



Simultaneous Transmission Summation Scenario (Head SAR)

| Band         |             | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR (EN-DC) | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR    | SPLSR    |
|--------------|-------------|--------|---------|------------------|----------------|---------------|-------------------|-----------|-----------|-----------|--------------|----------|
|              |             | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)            | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)       | (Yes/No) |
|              |             | 1      | 2       | 3                | 4              | 5             | 1+2               | 1+2+3     | 1+2+4     | 1+2+5     | 1+2+4+5      |          |
| NR5 + LTE2   | Left Cheek  | 0.234  | 0.192   | 0.103            | 0.177          | 0.027         | 0.426             | 0.529     | 0.603     | 0.453     | 0.630        | No       |
|              | Left Tilt   | 0.113  | 0.091   | 0.085            | 0.129          | 0.024         | 0.204             | 0.289     | 0.333     | 0.228     | 0.357        | No       |
|              | Right Cheek | 0.266  | 0.163   | 0.248            | 0.342          | 0.059         | 0.429             | 0.677     | 0.771     | 0.488     | 0.830        | No       |
|              | Right Tilt  | 0.126  | 0.079   | 0.000            | 0.316          | 0.049         | 0.205             | 0.205     | 0.521     | 0.254     | 0.570        | No       |
| NR5 + LTE30  | Left Cheek  | 0.234  | 0.169   | 0.103            | 0.177          | 0.027         | 0.403             | 0.506     | 0.580     | 0.430     | 0.607        | No       |
|              | Left Tilt   | 0.113  | 0.138   | 0.085            | 0.129          | 0.024         | 0.251             | 0.336     | 0.380     | 0.275     | 0.404        | No       |
|              | Right Cheek | 0.266  | 0.519   | 0.248            | 0.342          | 0.059         | 0.785             | 1.033     | 1.127     | 0.844     | <b>1.186</b> | No       |
|              | Right Tilt  | 0.126  | 0.232   | 0.000            | 0.316          | 0.049         | 0.358             | 0.358     | 0.674     | 0.407     | 0.723        | No       |
| NR5 + LTE48  | Left Cheek  | 0.234  | 0.245   | 0.103            | 0.177          | 0.027         | 0.479             | 0.582     | 0.656     | 0.506     | 0.683        | No       |
|              | Left Tilt   | 0.113  | 0.285   | 0.085            | 0.129          | 0.024         | 0.398             | 0.483     | 0.527     | 0.422     | 0.551        | No       |
|              | Right Cheek | 0.266  | 0.452   | 0.248            | 0.342          | 0.059         | 0.718             | 0.966     | 1.060     | 0.777     | 1.119        | No       |
|              | Right Tilt  | 0.126  | 0.521   | 0.000            | 0.316          | 0.049         | 0.647             | 0.647     | 0.963     | 0.696     | 1.012        | No       |
| NR5 + LTE66  | Left Cheek  | 0.234  | 0.160   | 0.103            | 0.177          | 0.027         | 0.394             | 0.497     | 0.571     | 0.421     | 0.598        | No       |
|              | Left Tilt   | 0.113  | 0.112   | 0.085            | 0.129          | 0.024         | 0.225             | 0.310     | 0.354     | 0.249     | 0.378        | No       |
|              | Right Cheek | 0.266  | 0.182   | 0.248            | 0.342          | 0.059         | 0.448             | 0.696     | 0.790     | 0.507     | 0.849        | No       |
|              | Right Tilt  | 0.126  | 0.110   | 0.000            | 0.316          | 0.049         | 0.236             | 0.236     | 0.552     | 0.285     | 0.601        | No       |
| NR25 + LTE12 | Left Cheek  | 0.362  | 0.243   | 0.103            | 0.177          | 0.027         | 0.605             | 0.708     | 0.782     | 0.632     | 0.605        | No       |
|              | Left Tilt   | 0.173  | 0.110   | 0.085            | 0.129          | 0.024         | 0.283             | 0.368     | 0.412     | 0.307     | 0.283        | No       |
|              | Right Cheek | 0.299  | 0.295   | 0.248            | 0.342          | 0.059         | 0.594             | 0.842     | 0.936     | 0.653     | 0.594        | No       |
|              | Right Tilt  | 0.208  | 0.149   | 0.000            | 0.316          | 0.049         | 0.357             | 0.357     | 0.673     | 0.406     | 0.357        | No       |
| NR41 + LTE2  | Left Cheek  | 0.189  | 0.192   | 0.103            | 0.177          | 0.027         | 0.381             | 0.484     | 0.558     | 0.408     | 0.585        | No       |
|              | Left Tilt   | 0.115  | 0.091   | 0.085            | 0.129          | 0.024         | 0.206             | 0.291     | 0.335     | 0.230     | 0.359        | No       |
|              | Right Cheek | 0.454  | 0.163   | 0.248            | 0.342          | 0.059         | 0.617             | 0.865     | 0.959     | 0.676     | 1.018        | No       |
|              | Right Tilt  | 0.268  | 0.079   | 0.000            | 0.316          | 0.049         | 0.347             | 0.347     | 0.663     | 0.396     | 0.712        | No       |
| NR41 + LTE12 | Left Cheek  | 0.189  | 0.243   | 0.103            | 0.177          | 0.027         | 0.432             | 0.535     | 0.609     | 0.459     | 0.432        | No       |
|              | Left Tilt   | 0.115  | 0.110   | 0.085            | 0.129          | 0.024         | 0.225             | 0.310     | 0.354     | 0.249     | 0.225        | No       |
|              | Right Cheek | 0.454  | 0.295   | 0.248            | 0.342          | 0.059         | 0.749             | 0.997     | 1.091     | 0.808     | 0.749        | No       |
|              | Right Tilt  | 0.268  | 0.149   | 0.000            | 0.316          | 0.049         | 0.417             | 0.417     | 0.733     | 0.466     | 0.417        | No       |
| NR41 + LTE25 | Left Cheek  | 0.189  | 0.192   | 0.103            | 0.177          | 0.027         | 0.381             | 0.484     | 0.558     | 0.408     | 0.585        | No       |
|              | Left Tilt   | 0.115  | 0.091   | 0.085            | 0.129          | 0.024         | 0.206             | 0.291     | 0.335     | 0.230     | 0.359        | No       |
|              | Right Cheek | 0.454  | 0.163   | 0.248            | 0.342          | 0.059         | 0.617             | 0.865     | 0.959     | 0.676     | 1.018        | No       |
|              | Right Tilt  | 0.268  | 0.079   | 0.000            | 0.316          | 0.049         | 0.347             | 0.347     | 0.663     | 0.396     | 0.712        | No       |
| NR41 + LTE66 | Left Cheek  | 0.189  | 0.160   | 0.103            | 0.177          | 0.027         | 0.349             | 0.452     | 0.526     | 0.376     | 0.553        | No       |
|              | Left Tilt   | 0.115  | 0.112   | 0.085            | 0.129          | 0.024         | 0.227             | 0.312     | 0.356     | 0.251     | 0.380        | No       |
|              | Right Cheek | 0.454  | 0.182   | 0.248            | 0.342          | 0.059         | 0.636             | 0.884     | 0.978     | 0.695     | 1.037        | No       |
|              | Right Tilt  | 0.268  | 0.110   | 0.000            | 0.316          | 0.049         | 0.378             | 0.378     | 0.694     | 0.427     | 0.743        | No       |

Simultaneous Transmission Summation Scenario (Head SAR)

| Band         |             | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR (EN-DC) | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|--------------|-------------|--------|---------|------------------|----------------|---------------|-------------------|-----------|-----------|-----------|-----------|----------|
|              |             | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)            | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|              |             | 1      | 2       | 3                | 4              | 5             | 1+2               | 1+2+3     | 1+2+4     | 1+2+5     | 1+2+4+5   |          |
| NR66 + LTE5  | Left Cheek  | 0.266  | 0.184   | 0.103            | 0.177          | 0.027         | 0.450             | 0.553     | 0.627     | 0.477     | 0.654     | No       |
|              | Left Tilt   | 0.160  | 0.093   | 0.085            | 0.129          | 0.024         | 0.253             | 0.338     | 0.382     | 0.277     | 0.406     | No       |
|              | Right Cheek | 0.236  | 0.245   | 0.248            | 0.342          | 0.059         | 0.481             | 0.729     | 0.823     | 0.540     | 0.882     | No       |
|              | Right Tilt  | 0.159  | 0.125   | 0.000            | 0.316          | 0.049         | 0.284             | 0.284     | 0.600     | 0.333     | 0.649     | No       |
| NR66 + LTE12 | Left Cheek  | 0.266  | 0.243   | 0.103            | 0.177          | 0.027         | 0.509             | 0.612     | 0.686     | 0.536     | 0.713     | No       |
|              | Left Tilt   | 0.160  | 0.110   | 0.085            | 0.129          | 0.024         | 0.270             | 0.355     | 0.399     | 0.294     | 0.423     | No       |
|              | Right Cheek | 0.236  | 0.295   | 0.248            | 0.342          | 0.059         | 0.531             | 0.779     | 0.873     | 0.590     | 0.932     | No       |
|              | Right Tilt  | 0.159  | 0.149   | 0.000            | 0.316          | 0.049         | 0.308             | 0.308     | 0.624     | 0.357     | 0.673     | No       |
| NR66 + LTE13 | Left Cheek  | 0.266  | 0.335   | 0.103            | 0.177          | 0.027         | 0.601             | 0.704     | 0.778     | 0.628     | 0.805     | No       |
|              | Left Tilt   | 0.160  | 0.151   | 0.085            | 0.129          | 0.024         | 0.311             | 0.396     | 0.440     | 0.335     | 0.464     | No       |
|              | Right Cheek | 0.236  | 0.381   | 0.248            | 0.342          | 0.059         | 0.617             | 0.865     | 0.959     | 0.676     | 1.018     | No       |
|              | Right Tilt  | 0.159  | 0.188   | 0.000            | 0.316          | 0.049         | 0.347             | 0.347     | 0.663     | 0.396     | 0.712     | No       |
| NR66 + LTE14 | Left Cheek  | 0.266  | 0.242   | 0.103            | 0.177          | 0.027         | 0.508             | 0.611     | 0.685     | 0.535     | 0.712     | No       |
|              | Left Tilt   | 0.160  | 0.118   | 0.085            | 0.129          | 0.024         | 0.278             | 0.363     | 0.407     | 0.302     | 0.431     | No       |
|              | Right Cheek | 0.236  | 0.281   | 0.248            | 0.342          | 0.059         | 0.517             | 0.765     | 0.859     | 0.576     | 0.918     | No       |
|              | Right Tilt  | 0.159  | 0.220   | 0.000            | 0.316          | 0.049         | 0.379             | 0.379     | 0.695     | 0.428     | 0.744     | No       |
| NR66 + LTE48 | Left Cheek  | 0.266  | 0.245   | 0.103            | 0.177          | 0.027         | 0.511             | 0.614     | 0.688     | 0.538     | 0.715     | No       |
|              | Left Tilt   | 0.160  | 0.285   | 0.085            | 0.129          | 0.024         | 0.445             | 0.53      | 0.574     | 0.469     | 0.598     | No       |
|              | Right Cheek | 0.236  | 0.452   | 0.248            | 0.342          | 0.059         | 0.688             | 0.936     | 1.030     | 0.747     | 1.089     | No       |
|              | Right Tilt  | 0.159  | 0.521   | 0.000            | 0.316          | 0.049         | 0.680             | 0.680     | 0.996     | 0.729     | 1.045     | No       |
| NR71 + LTE2  | Left Cheek  | 0.192  | 0.192   | 0.103            | 0.177          | 0.027         | 0.384             | 0.487     | 0.561     | 0.411     | 0.588     | No       |
|              | Left Tilt   | 0.091  | 0.091   | 0.085            | 0.129          | 0.024         | 0.182             | 0.267     | 0.311     | 0.206     | 0.335     | No       |
|              | Right Cheek | 0.231  | 0.163   | 0.248            | 0.342          | 0.059         | 0.394             | 0.642     | 0.736     | 0.453     | 0.795     | No       |
|              | Right Tilt  | 0.108  | 0.079   | 0.000            | 0.316          | 0.049         | 0.187             | 0.187     | 0.503     | 0.236     | 0.552     | No       |
| NR71 + LTE7  | Left Cheek  | 0.192  | 0.368   | 0.103            | 0.177          | 0.027         | 0.560             | 0.663     | 0.737     | 0.587     | 0.764     | No       |
|              | Left Tilt   | 0.091  | 0.166   | 0.085            | 0.129          | 0.024         | 0.257             | 0.342     | 0.386     | 0.281     | 0.410     | No       |
|              | Right Cheek | 0.231  | 0.504   | 0.248            | 0.342          | 0.059         | 0.735             | 0.983     | 1.077     | 0.794     | 1.136     | No       |
|              | Right Tilt  | 0.108  | 0.569   | 0.000            | 0.316          | 0.049         | 0.677             | 0.677     | 0.993     | 0.726     | 1.042     | No       |
| NR71 + LTE66 | Left Cheek  | 0.192  | 0.160   | 0.103            | 0.177          | 0.027         | 0.352             | 0.455     | 0.529     | 0.379     | 0.556     | No       |
|              | Left Tilt   | 0.091  | 0.112   | 0.085            | 0.129          | 0.024         | 0.203             | 0.288     | 0.332     | 0.227     | 0.356     | No       |
|              | Right Cheek | 0.231  | 0.182   | 0.248            | 0.342          | 0.059         | 0.413             | 0.661     | 0.755     | 0.472     | 0.814     | No       |
|              | Right Tilt  | 0.108  | 0.110   | 0.000            | 0.316          | 0.049         | 0.218             | 0.218     | 0.534     | 0.267     | 0.583     | No       |
| NR77 + LTE2  | Left Cheek  | 0.114  | 0.192   | 0.103            | 0.177          | 0.027         | 0.306             | 0.409     | 0.483     | 0.333     | 0.510     | No       |
|              | Left Tilt   | 0.114  | 0.091   | 0.085            | 0.129          | 0.024         | 0.205             | 0.290     | 0.334     | 0.229     | 0.358     | No       |
|              | Right Cheek | 0.352  | 0.163   | 0.248            | 0.342          | 0.059         | 0.515             | 0.763     | 0.857     | 0.574     | 0.916     | No       |
|              | Right Tilt  | 0.282  | 0.079   | 0.000            | 0.316          | 0.049         | 0.361             | 0.361     | 0.677     | 0.410     | 0.726     | No       |
| NR77 + LTE5  | Left Cheek  | 0.114  | 0.184   | 0.103            | 0.177          | 0.027         | 0.298             | 0.401     | 0.475     | 0.325     | 0.502     | No       |
|              | Left Tilt   | 0.114  | 0.093   | 0.085            | 0.129          | 0.024         | 0.207             | 0.292     | 0.336     | 0.231     | 0.360     | No       |
|              | Right Cheek | 0.352  | 0.245   | 0.248            | 0.342          | 0.059         | 0.597             | 0.845     | 0.939     | 0.656     | 0.998     | No       |
|              | Right Tilt  | 0.282  | 0.125   | 0.000            | 0.316          | 0.049         | 0.407             | 0.407     | 0.723     | 0.456     | 0.772     | No       |
| NR77 + LTE13 | Left Cheek  | 0.114  | 0.335   | 0.103            | 0.177          | 0.027         | 0.449             | 0.552     | 0.626     | 0.476     | 0.653     | No       |
|              | Left Tilt   | 0.114  | 0.151   | 0.085            | 0.129          | 0.024         | 0.265             | 0.350     | 0.394     | 0.289     | 0.418     | No       |
|              | Right Cheek | 0.352  | 0.381   | 0.248            | 0.342          | 0.059         | 0.733             | 0.981     | 1.075     | 0.792     | 1.134     | No       |
|              | Right Tilt  | 0.282  | 0.188   | 0.000            | 0.316          | 0.049         | 0.470             | 0.470     | 0.786     | 0.519     | 0.835     | No       |
| NR77 + LTE66 | Left Cheek  | 0.114  | 0.160   | 0.103            | 0.177          | 0.027         | 0.274             | 0.377     | 0.451     | 0.301     | 0.478     | No       |
|              | Left Tilt   | 0.114  | 0.112   | 0.085            | 0.129          | 0.024         | 0.226             | 0.311     | 0.355     | 0.250     | 0.379     | No       |
|              | Right Cheek | 0.352  | 0.182   | 0.248            | 0.342          | 0.059         | 0.534             | 0.782     | 0.876     | 0.593     | 0.935     | No       |
|              | Right Tilt  | 0.282  | 0.110   | 0.000            | 0.316          | 0.049         | 0.392             | 0.392     | 0.708     | 0.441     | 0.757     | No       |



**14.2 Body-Worn SAR Simultaneous Transmission Analysis.**

| Simultaneous Transmission Summation Scenario (Body-Worn SAR) – Distance: 15 mm |       |          |                  |                |               |           |           |           |           |          |
|--|-------|----------|------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
| Band   |       | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|  |       | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|  |       | 1        | 2                | 3              | 4             | 1+2       | 1+3       | 1+4       | 1+3+4     |          |
| EVDO BC10 (\$90S)  | Rear  | 0.302    | 0.159            | 0.280          | 0.018         | 0.461     | 0.582     | 0.320     | 0.600     | No       |
|  | Front | 0.255    | 0.064            | 0.064          | 0.002         | 0.319     | 0.319     | 0.257     | 0.321     | No       |
| EVDO BC0 (\$22H)   | Rear  | 0.323    | 0.159            | 0.280          | 0.018         | 0.482     | 0.603     | 0.341     | 0.621     | No       |
|  | Front | 0.156    | 0.064            | 0.064          | 0.002         | 0.220     | 0.220     | 0.158     | 0.222     | No       |
| PCS CDMA/EVDO  | Rear  | 0.732    | 0.159            | 0.280          | 0.018         | 0.891     | 1.012     | 0.750     | 1.030     | No       |
|  | Front | 0.342    | 0.064            | 0.064          | 0.002         | 0.406     | 0.406     | 0.344     | 0.408     | No       |
| GSM 850  | Rear  | 0.375    | 0.159            | 0.280          | 0.018         | 0.534     | 0.655     | 0.393     | 0.673     | No       |
|  | Front | 0.221    | 0.064            | 0.064          | 0.002         | 0.285     | 0.285     | 0.223     | 0.287     | No       |
| GPRS 850   | Rear  | 0.525    | 0.159            | 0.280          | 0.018         | 0.684     | 0.805     | 0.543     | 0.823     | No       |
|  | Front | 0.310    | 0.064            | 0.064          | 0.002         | 0.374     | 0.374     | 0.312     | 0.376     | No       |
| GSM 1900   | Rear  | 0.245    | 0.159            | 0.280          | 0.018         | 0.404     | 0.525     | 0.263     | 0.543     | No       |
|  | Front | 0.141    | 0.064            | 0.064          | 0.002         | 0.205     | 0.205     | 0.143     | 0.207     | No       |
| GPRS 1900  | Rear  | 0.336    | 0.159            | 0.280          | 0.018         | 0.495     | 0.616     | 0.354     | 0.634     | No       |
|  | Front | 0.192    | 0.064            | 0.064          | 0.002         | 0.256     | 0.256     | 0.194     | 0.258     | No       |
| UMTS 850   | Rear  | 0.374    | 0.159            | 0.280          | 0.018         | 0.533     | 0.654     | 0.392     | 0.672     | No       |
|  | Front | 0.276    | 0.064            | 0.064          | 0.002         | 0.340     | 0.340     | 0.278     | 0.342     | No       |
| UMTS 1700  | Rear  | 0.309    | 0.159            | 0.280          | 0.018         | 0.468     | 0.589     | 0.327     | 0.607     | No       |
|  | Front | 0.293    | 0.064            | 0.064          | 0.002         | 0.357     | 0.357     | 0.295     | 0.359     | No       |
| UMTS 1900  | Rear  | 0.518    | 0.159            | 0.280          | 0.018         | 0.677     | 0.798     | 0.536     | 0.816     | No       |
|  | Front | 0.331    | 0.064            | 0.064          | 0.002         | 0.395     | 0.395     | 0.333     | 0.397     | No       |
| LTE Band 7   | Rear  | 0.777    | 0.159            | 0.280          | 0.018         | 0.936     | 1.057     | 0.795     | 1.075     | No       |
|  | Front | 0.142    | 0.064            | 0.064          | 0.002         | 0.206     | 0.206     | 0.144     | 0.208     | No       |
| LTE Band 12  | Rear  | 0.418    | 0.159            | 0.280          | 0.018         | 0.577     | 0.698     | 0.436     | 0.716     | No       |
|  | Front | 0.272    | 0.064            | 0.064          | 0.002         | 0.336     | 0.336     | 0.274     | 0.338     | No       |
| LTE Band 13  | Rear  | 0.469    | 0.159            | 0.280          | 0.018         | 0.628     | 0.749     | 0.487     | 0.767     | No       |
|  | Front | 0.352    | 0.064            | 0.064          | 0.002         | 0.416     | 0.416     | 0.354     | 0.418     | No       |
| LTE Band 14  | Rear  | 0.383    | 0.159            | 0.280          | 0.018         | 0.542     | 0.663     | 0.401     | 0.681     | No       |
|  | Front | 0.314    | 0.064            | 0.064          | 0.002         | 0.378     | 0.378     | 0.316     | 0.380     | No       |
| LTE Band 25  | Rear  | 0.440    | 0.159            | 0.280          | 0.018         | 0.599     | 0.720     | 0.458     | 0.738     | No       |
|  | Front | 0.242    | 0.064            | 0.064          | 0.002         | 0.306     | 0.306     | 0.244     | 0.308     | No       |
| LTE Band 26  | Rear  | 0.310    | 0.159            | 0.280          | 0.018         | 0.469     | 0.590     | 0.328     | 0.608     | No       |
|  | Front | 0.257    | 0.064            | 0.064          | 0.002         | 0.321     | 0.321     | 0.259     | 0.323     | No       |
| LTE Band 30  | Rear  | 0.559    | 0.159            | 0.280          | 0.018         | 0.718     | 0.839     | 0.577     | 0.857     | No       |
|  | Front | 0.108    | 0.064            | 0.064          | 0.002         | 0.172     | 0.172     | 0.110     | 0.174     | No       |
| LTE Band 40 Low  | Rear  | 0.026    | 0.159            | 0.280          | 0.018         | 0.185     | 0.306     | 0.044     | 0.324     | No       |
|  | Front | 0.005    | 0.064            | 0.064          | 0.002         | 0.069     | 0.069     | 0.007     | 0.071     | No       |
| LTE Band 40 Upper  | Rear  | 0.032    | 0.159            | 0.280          | 0.018         | 0.191     | 0.312     | 0.050     | 0.330     | No       |
|  | Front | 0.030    | 0.064            | 0.064          | 0.002         | 0.094     | 0.094     | 0.032     | 0.096     | No       |
| LTE Band 41  | Rear  | 1.168    | 0.159            | 0.280          | 0.018         | 1.327     | 1.448     | 1.186     | 1.466     | No       |
|  | Front | 0.138    | 0.064            | 0.064          | 0.002         | 0.202     | 0.202     | 0.140     | 0.204     | No       |
| LTE Band 48  | Rear  | 0.286    | 0.159            | 0.280          | 0.018         | 0.445     | 0.566     | 0.304     | 0.584     | No       |
|  | Front | 0.159    | 0.064            | 0.064          | 0.002         | 0.223     | 0.223     | 0.161     | 0.225     | No       |

**Simultaneous Transmission Summation Scenario (Body-Worn SAR) – Distance: 15 mm**

| Band              |       | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | SPLSR    |
|-------------------|-------|----------|------------------|----------------|---------------|------------------|------------------|------------------|------------------|----------|
|                   |       | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)           | (W/kg)           | (W/kg)           | (W/kg)           | (Yes/No) |
|                   |       | 1        | 2                | 3              | 4             | 1+2              | 1+3              | 1+4              | 1+3+4            |          |
| LTE Band 66       | Rear  | 0.404    | 0.159            | 0.280          | 0.018         | 0.563            | 0.684            | 0.422            | 0.702            | No       |
|                   | Front | 0.307    | 0.064            | 0.064          | 0.002         | 0.371            | 0.371            | 0.309            | 0.373            | No       |
| LTE Band 71       | Rear  | 0.413    | 0.159            | 0.280          | 0.018         | 0.572            | 0.693            | 0.431            | 0.711            | No       |
|                   | Front | 0.246    | 0.064            | 0.064          | 0.002         | 0.310            | 0.310            | 0.248            | 0.312            | No       |
| NR Band n5        | Rear  | 0.343    | 0.159            | 0.280          | 0.018         | 0.502            | 0.623            | 0.361            | 0.641            | No       |
|                   | Front | 0.256    | 0.064            | 0.064          | 0.002         | 0.320            | 0.320            | 0.258            | 0.322            | No       |
| NR Band n25       | Rear  | 0.646    | 0.159            | 0.280          | 0.018         | 0.805            | 0.926            | 0.664            | 0.944            | No       |
|                   | Front | 0.516    | 0.064            | 0.064          | 0.002         | 0.580            | 0.580            | 0.518            | 0.582            | No       |
| NR Band n41 (PC3) | Rear  | 0.728    | 0.159            | 0.280          | 0.018         | 0.887            | 1.008            | 0.746            | 1.026            | No       |
|                   | Front | 0.115    | 0.064            | 0.064          | 0.002         | 0.179            | 0.179            | 0.117            | 0.181            | No       |
| NR Band n41 (PC2) | Rear  | 1.090    | 0.159            | 0.280          | 0.018         | 1.249            | 1.37             | 1.108            | 1.388            | No       |
|                   | Front | 0.125    | 0.064            | 0.064          | 0.002         | 0.189            | 0.189            | 0.127            | 0.191            | No       |
| NR Band n66       | Rear  | 0.521    | 0.159            | 0.280          | 0.018         | 0.680            | 0.801            | 0.539            | 0.819            | No       |
|                   | Front | 0.433    | 0.064            | 0.064          | 0.002         | 0.497            | 0.497            | 0.435            | 0.499            | No       |
| NR Band n71       | Rear  | 0.366    | 0.159            | 0.280          | 0.018         | 0.525            | 0.646            | 0.384            | 0.664            | No       |
|                   | Front | 0.242    | 0.064            | 0.064          | 0.002         | 0.306            | 0.306            | 0.244            | 0.308            | No       |
| NR Band n77       | Rear  | 0.342    | 0.159            | 0.280          | 0.018         | 0.501            | 0.622            | 0.360            | 0.640            | No       |
|                   | Front | 0.158    | 0.064            | 0.064          | 0.002         | 0.222            | 0.222            | 0.160            | 0.224            | No       |

Simultaneous Transmission Summation Scenario (Body-Worn SAR) – Distance: 15 mm

| Band         |       | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR (EN-DC) | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR    | SPLSR    |
|--------------|-------|--------|---------|------------------|----------------|---------------|-------------------|-----------|-----------|-----------|--------------|----------|
|              |       | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)            | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)       | (Yes/No) |
|              |       | 1      | 2       | 3                | 4              | 5             | 1+2               | 1+2+3     | 1+2+4     | 1+2+5     | 1+2+4+5      |          |
| NR5 + LTE2   | Rear  | 0.343  | 0.440   | 0.159            | 0.280          | 0.018         | 0.783             | 0.942     | 1.063     | 0.801     | 1.081        | No       |
|              | Front | 0.256  | 0.242   | 0.064            | 0.064          | 0.002         | 0.498             | 0.562     | 0.562     | 0.500     | 0.564        | No       |
| NR5 + LTE30  | Rear  | 0.343  | 0.559   | 0.159            | 0.280          | 0.018         | 0.902             | 1.061     | 1.182     | 0.920     | 1.200        | No       |
|              | Front | 0.256  | 0.108   | 0.064            | 0.064          | 0.002         | 0.364             | 0.428     | 0.428     | 0.366     | 0.430        | No       |
| NR5 + LTE48  | Rear  | 0.343  | 0.286   | 0.159            | 0.280          | 0.018         | 0.629             | 0.788     | 0.909     | 0.647     | 0.927        | No       |
|              | Front | 0.256  | 0.159   | 0.064            | 0.064          | 0.002         | 0.415             | 0.479     | 0.479     | 0.417     | 0.481        | No       |
| NR5 + LTE66  | Rear  | 0.343  | 0.404   | 0.159            | 0.280          | 0.018         | 0.747             | 0.906     | 1.027     | 0.765     | 1.045        | No       |
|              | Front | 0.256  | 0.307   | 0.064            | 0.064          | 0.002         | 0.563             | 0.627     | 0.627     | 0.565     | 0.629        | No       |
| NR25 + LTE12 | Rear  | 0.646  | 0.418   | 0.159            | 0.280          | 0.018         | 1.064             | 1.223     | 1.344     | 1.082     | 1.362        | No       |
|              | Front | 0.516  | 0.272   | 0.064            | 0.064          | 0.002         | 0.788             | 0.852     | 0.852     | 0.790     | 0.854        | No       |
| NR41 + LTE2  | Rear  | 0.728  | 0.440   | 0.159            | 0.280          | 0.018         | 1.168             | 1.327     | 1.448     | 1.186     | 1.466        | No       |
|              | Front | 0.115  | 0.242   | 0.064            | 0.064          | 0.002         | 0.357             | 0.421     | 0.421     | 0.359     | 0.423        | No       |
| NR41 + LTE12 | Rear  | 0.728  | 0.418   | 0.159            | 0.280          | 0.018         | 1.146             | 1.305     | 1.426     | 1.164     | 1.444        | No       |
|              | Front | 0.115  | 0.272   | 0.064            | 0.064          | 0.002         | 0.387             | 0.451     | 0.451     | 0.389     | 0.453        | No       |
| NR41 + LTE25 | Rear  | 0.728  | 0.440   | 0.159            | 0.280          | 0.018         | 1.168             | 1.327     | 1.448     | 1.186     | <b>1.466</b> | No       |
|              | Front | 0.115  | 0.242   | 0.064            | 0.064          | 0.002         | 0.357             | 0.421     | 0.421     | 0.359     | 0.423        | No       |
| NR41 + LTE66 | Rear  | 0.728  | 0.404   | 0.159            | 0.280          | 0.018         | 1.132             | 1.291     | 1.412     | 1.150     | 1.430        | No       |
|              | Front | 0.115  | 0.307   | 0.064            | 0.064          | 0.002         | 0.422             | 0.486     | 0.486     | 0.424     | 0.488        | No       |
| NR66 + LTE5  | Rear  | 0.521  | 0.310   | 0.159            | 0.280          | 0.018         | 0.831             | 0.990     | 1.111     | 0.849     | 1.129        | No       |
|              | Front | 0.433  | 0.257   | 0.064            | 0.064          | 0.002         | 0.690             | 0.754     | 0.754     | 0.692     | 0.756        | No       |
| NR66 + LTE12 | Rear  | 0.521  | 0.418   | 0.159            | 0.280          | 0.018         | 0.939             | 1.098     | 1.219     | 0.957     | 1.237        | No       |
|              | Front | 0.433  | 0.272   | 0.064            | 0.064          | 0.002         | 0.705             | 0.769     | 0.769     | 0.707     | 0.771        | No       |
| NR66 + LTE13 | Rear  | 0.521  | 0.469   | 0.159            | 0.280          | 0.018         | 0.990             | 1.149     | 1.270     | 1.008     | 1.288        | No       |
|              | Front | 0.433  | 0.352   | 0.064            | 0.064          | 0.002         | 0.785             | 0.849     | 0.849     | 0.787     | 0.851        | No       |
| NR66 + LTE14 | Rear  | 0.521  | 0.383   | 0.159            | 0.280          | 0.018         | 0.904             | 1.063     | 1.184     | 0.922     | 1.202        | No       |
|              | Front | 0.433  | 0.314   | 0.064            | 0.064          | 0.002         | 0.747             | 0.811     | 0.811     | 0.749     | 0.813        | No       |
| NR66 + LTE48 | Rear  | 0.521  | 0.286   | 0.159            | 0.280          | 0.018         | 0.807             | 0.966     | 1.087     | 0.825     | 1.105        | No       |
|              | Front | 0.433  | 0.159   | 0.064            | 0.064          | 0.002         | 0.592             | 0.656     | 0.656     | 0.594     | 0.658        | No       |
| NR71 + LTE2  | Rear  | 0.366  | 0.440   | 0.159            | 0.280          | 0.018         | 0.806             | 0.965     | 1.086     | 0.824     | 1.104        | No       |
|              | Front | 0.242  | 0.242   | 0.064            | 0.064          | 0.002         | 0.484             | 0.548     | 0.548     | 0.486     | 0.550        | No       |
| NR71 + LTE7  | Rear  | 0.366  | 0.777   | 0.159            | 0.280          | 0.018         | 1.143             | 1.302     | 1.423     | 1.161     | 1.441        | No       |
|              | Front | 0.242  | 0.142   | 0.064            | 0.064          | 0.002         | 0.384             | 0.448     | 0.448     | 0.386     | 0.450        | No       |
| NR71 + LTE66 | Rear  | 0.366  | 0.404   | 0.159            | 0.280          | 0.018         | 0.77              | 0.929     | 1.05      | 0.788     | 1.068        | No       |
|              | Front | 0.242  | 0.307   | 0.064            | 0.064          | 0.002         | 0.549             | 0.613     | 0.613     | 0.551     | 0.615        | No       |
| NR77 + LTE2  | Rear  | 0.342  | 0.440   | 0.159            | 0.280          | 0.018         | 0.782             | 0.941     | 1.062     | 0.800     | 1.080        | No       |
|              | Front | 0.158  | 0.242   | 0.064            | 0.064          | 0.002         | 0.400             | 0.464     | 0.464     | 0.402     | 0.466        | No       |
| NR77 + LTE5  | Rear  | 0.342  | 0.310   | 0.159            | 0.280          | 0.018         | 0.652             | 0.811     | 0.932     | 0.670     | 0.950        | No       |
|              | Front | 0.158  | 0.257   | 0.064            | 0.064          | 0.002         | 0.415             | 0.479     | 0.479     | 0.417     | 0.481        | No       |
| NR77 + LTE13 | Rear  | 0.342  | 0.469   | 0.159            | 0.280          | 0.018         | 0.811             | 0.970     | 1.091     | 0.829     | 1.109        | No       |
|              | Front | 0.158  | 0.352   | 0.064            | 0.064          | 0.002         | 0.510             | 0.574     | 0.574     | 0.512     | 0.576        | No       |
| NR77 + LTE66 | Rear  | 0.342  | 0.404   | 0.159            | 0.280          | 0.018         | 0.746             | 0.905     | 1.026     | 0.764     | 1.044        | No       |
|              | Front | 0.158  | 0.307   | 0.064            | 0.064          | 0.002         | 0.465             | 0.529     | 0.529     | 0.467     | 0.531        | No       |

**14.3 Hotspot SAR Simultaneous Transmission Analysis.**

| Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm |        |          |                  |                |               |           |           |           |           |          |
|--|--------|----------|------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
| Band   |        | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|  |        | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|  |        | 1        | 2                | 3              | 4             | 1+2       | 1+3       | 1+4       | 1+3+4     |          |
| EVDO BC10 (\$90S)  | Rear   | 0.498    | 0.408            | 0.360          | 0.046         | 0.906     | 0.858     | 0.544     | 0.904     | No       |
|  | Front  | 0.233    | 0.081            | 0.102          | 0.010         | 0.314     | 0.335     | 0.243     | 0.345     | No       |
|  | Left   | 0.137    | 0.000            | 0.043          | 0.001         | 0.137     | 0.180     | 0.138     | 0.181     | No       |
|  | Right  | 0.237    |                  |                |               | 0.237     | 0.237     | 0.237     | 0.237     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.203    |                  |                |               | 0.203     | 0.203     | 0.203     | 0.203     | No       |
| EVDO BC0 (\$22H)   | Rear   | 0.576    | 0.408            | 0.360          | 0.046         | 0.984     | 0.936     | 0.622     | 0.982     | No       |
|  | Front  | 0.135    | 0.081            | 0.102          | 0.010         | 0.216     | 0.237     | 0.145     | 0.247     | No       |
|  | Left   | 0.066    | 0.000            | 0.043          | 0.001         | 0.066     | 0.109     | 0.067     | 0.110     | No       |
|  | Right  | 0.177    |                  |                |               | 0.177     | 0.177     | 0.177     | 0.177     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.257    |                  |                |               | 0.257     | 0.257     | 0.257     | 0.257     | No       |
| PCS EVDO   | Rear   | 0.532    | 0.408            | 0.360          | 0.046         | 0.940     | 0.892     | 0.578     | 0.938     | No       |
|  | Front  | 0.249    | 0.081            | 0.102          | 0.010         | 0.330     | 0.351     | 0.259     | 0.361     | No       |
|  | Left   | 0.215    | 0.000            | 0.043          | 0.001         | 0.215     | 0.258     | 0.216     | 0.259     | No       |
|  | Right  | 0.221    |                  |                |               | 0.221     | 0.221     | 0.221     | 0.221     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.482    |                  |                |               | 0.482     | 0.482     | 0.482     | 0.482     | No       |
| GSM 850  | Rear   | 1.019    | 0.408            | 0.360          | 0.046         | 1.427     | 1.379     | 1.065     | 1.425     | No       |
|  | Front  | 0.289    | 0.081            | 0.102          | 0.010         | 0.370     | 0.391     | 0.299     | 0.401     | No       |
|  | Left   | 0.175    | 0.000            | 0.043          | 0.001         | 0.175     | 0.218     | 0.176     | 0.219     | No       |
|  | Right  | 0.374    |                  |                |               | 0.374     | 0.374     | 0.374     | 0.374     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.443    |                  |                |               | 0.443     | 0.443     | 0.443     | 0.443     | No       |
| GSM 1900   | Rear   | 0.721    | 0.408            | 0.360          | 0.046         | 1.129     | 1.081     | 0.767     | 1.127     | No       |
|  | Front  | 0.358    | 0.081            | 0.102          | 0.010         | 0.439     | 0.460     | 0.368     | 0.470     | No       |
|  | Left   | 0.332    | 0.000            | 0.043          | 0.001         | 0.332     | 0.375     | 0.333     | 0.376     | No       |
|  | Right  | 0.162    |                  |                |               | 0.162     | 0.162     | 0.162     | 0.162     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.558    |                  |                |               | 0.558     | 0.558     | 0.558     | 0.558     | No       |
| UMTS 850   | Rear   | 0.724    | 0.408            | 0.360          | 0.046         | 1.132     | 1.084     | 0.770     | 1.130     | No       |
|  | Front  | 0.254    | 0.081            | 0.102          | 0.010         | 0.335     | 0.356     | 0.264     | 0.366     | No       |
|  | Left   | 0.170    | 0.000            | 0.043          | 0.001         | 0.170     | 0.213     | 0.171     | 0.214     | No       |
|  | Right  | 0.328    |                  |                |               | 0.328     | 0.328     | 0.328     | 0.328     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.281    |                  |                |               | 0.281     | 0.281     | 0.281     | 0.281     | No       |
| UMTS 1700  | Rear   | 0.272    | 0.408            | 0.360          | 0.046         | 0.680     | 0.632     | 0.318     | 0.678     | No       |
|  | Front  | 0.170    | 0.081            | 0.102          | 0.010         | 0.251     | 0.272     | 0.180     | 0.282     | No       |
|  | Left   | 0.103    | 0.000            | 0.043          | 0.001         | 0.103     | 0.146     | 0.104     | 0.147     | No       |
|  | Right  | 0.071    |                  |                |               | 0.071     | 0.071     | 0.071     | 0.071     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.250    |                  |                |               | 0.250     | 0.250     | 0.250     | 0.250     | No       |

| Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm |        |          |                  |                |               |           |           |           |           |          |
|--|--------|----------|------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
| Band   |        | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|  |        | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|  |        | 1        | 2                | 3              | 4             | 1+2       | 1+3       | 1+4       | 1+3+4     |          |
| UMTS 1900  | Rear   | 0.332    | 0.408            | 0.360          | 0.046         | 0.740     | 0.692     | 0.378     | 0.738     | No       |
|  | Front  | 0.143    | 0.081            | 0.102          | 0.010         | 0.224     | 0.245     | 0.153     | 0.255     | No       |
|  | Left   | 0.131    | 0.000            | 0.043          | 0.001         | 0.131     | 0.174     | 0.132     | 0.175     | No       |
|  | Right  | 0.065    |                  |                |               | 0.065     | 0.065     | 0.065     | 0.065     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.314    |                  |                |               | 0.314     | 0.314     | 0.314     | 0.314     | No       |
| LTE Band 7   | Rear   | 0.495    | 0.408            | 0.360          | 0.046         | 0.903     | 0.855     | 0.541     | 0.901     | No       |
|  | Front  | 0.061    | 0.081            | 0.102          | 0.010         | 0.142     | 0.163     | 0.071     | 0.173     | No       |
|  | Left   | 0.229    | 0.000            | 0.043          | 0.001         | 0.229     | 0.272     | 0.230     | 0.273     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.062    | 0.120            | 0.210          | 0.013         | 0.182     | 0.272     | 0.075     | 0.285     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 12  | Rear   | 0.601    | 0.408            | 0.360          | 0.046         | 1.009     | 0.961     | 0.647     | 1.007     | No       |
|  | Front  | 0.249    | 0.081            | 0.102          | 0.010         | 0.330     | 0.351     | 0.259     | 0.361     | No       |
|  | Left   | 0.164    | 0.000            | 0.043          | 0.001         | 0.164     | 0.207     | 0.165     | 0.208     | No       |
|  | Right  | 0.311    |                  |                |               | 0.311     | 0.311     | 0.311     | 0.311     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.210    |                  |                |               | 0.210     | 0.210     | 0.210     | 0.210     | No       |
| LTE Band 13  | Rear   | 0.171    | 0.408            | 0.360          | 0.046         | 0.579     | 0.531     | 0.217     | 0.577     | No       |
|  | Front  | 0.087    | 0.081            | 0.102          | 0.010         | 0.168     | 0.189     | 0.097     | 0.199     | No       |
|  | Left   | 0.155    | 0.000            | 0.043          | 0.001         | 0.155     | 0.198     | 0.156     | 0.199     | No       |
|  | Right  | 0.272    |                  |                |               | 0.272     | 0.272     | 0.272     | 0.272     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.023    |                  |                |               | 0.023     | 0.023     | 0.023     | 0.023     | No       |
| LTE Band 14  | Rear   | 0.161    | 0.408            | 0.360          | 0.046         | 0.569     | 0.521     | 0.207     | 0.567     | No       |
|  | Front  | 0.085    | 0.081            | 0.102          | 0.010         | 0.166     | 0.187     | 0.095     | 0.197     | No       |
|  | Left   | 0.099    | 0.000            | 0.043          | 0.001         | 0.099     | 0.142     | 0.100     | 0.143     | No       |
|  | Right  | 0.222    |                  |                |               | 0.222     | 0.222     | 0.222     | 0.222     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.027    |                  |                |               | 0.027     | 0.027     | 0.027     | 0.027     | No       |
| LTE Band 25  | Rear   | 0.520    | 0.408            | 0.360          | 0.046         | 0.928     | 0.880     | 0.566     | 0.926     | No       |
|  | Front  | 0.194    | 0.081            | 0.102          | 0.010         | 0.275     | 0.296     | 0.204     | 0.306     | No       |
|  | Left   | 0.235    | 0.000            | 0.043          | 0.001         | 0.235     | 0.278     | 0.236     | 0.279     | No       |
|  | Right  | 0.110    |                  |                |               | 0.110     | 0.110     | 0.110     | 0.110     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.467    |                  |                |               | 0.467     | 0.467     | 0.467     | 0.467     | No       |
| LTE Band 26  | Rear   | 0.604    | 0.408            | 0.360          | 0.046         | 1.012     | 0.964     | 0.650     | 1.010     | No       |
|  | Front  | 0.237    | 0.081            | 0.102          | 0.010         | 0.318     | 0.339     | 0.247     | 0.349     | No       |
|  | Left   | 0.126    | 0.000            | 0.043          | 0.001         | 0.126     | 0.169     | 0.127     | 0.170     | No       |
|  | Right  | 0.174    |                  |                |               | 0.174     | 0.174     | 0.174     | 0.174     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.215    |                  |                |               | 0.215     | 0.215     | 0.215     | 0.215     | No       |

| Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm |        |          |                  |                |               |           |           |           |           |          |
|--|--------|----------|------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
| Band   |        | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|  |        | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|  |        | 1        | 2                | 3              | 4             | 1+2       | 1+3       | 1+4       | 1+3+4     |          |
| LTE Band 30  | Rear   | 0.588    | 0.408            | 0.360          | 0.046         | 0.996     | 0.948     | 0.634     | 0.994     | No       |
|  | Front  | 0.086    | 0.081            | 0.102          | 0.010         | 0.167     | 0.188     | 0.096     | 0.198     | No       |
|  | Left   | 0.280    | 0.000            | 0.043          | 0.001         | 0.280     | 0.323     | 0.281     | 0.324     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.050    | 0.120            | 0.210          | 0.013         | 0.170     | 0.260     | 0.063     | 0.273     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 40 (Low)  | Rear   | 0.075    | 0.408            | 0.360          | 0.046         | 0.483     | 0.435     | 0.121     | 0.481     | No       |
|  | Front  | 0.011    | 0.081            | 0.102          | 0.010         | 0.092     | 0.113     | 0.021     | 0.123     | No       |
|  | Left   | 0.030    | 0.000            | 0.043          | 0.001         | 0.030     | 0.073     | 0.031     | 0.074     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.003    | 0.120            | 0.210          | 0.013         | 0.123     | 0.213     | 0.016     | 0.226     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 40 (Upper)  | Rear   | 0.080    | 0.408            | 0.360          | 0.046         | 0.488     | 0.440     | 0.126     | 0.486     | No       |
|  | Front  | 0.012    | 0.081            | 0.102          | 0.010         | 0.093     | 0.114     | 0.022     | 0.124     | No       |
|  | Left   | 0.033    | 0.000            | 0.043          | 0.001         | 0.033     | 0.076     | 0.034     | 0.077     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.006    | 0.120            | 0.210          | 0.013         | 0.126     | 0.216     | 0.019     | 0.229     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 41  | Rear   | 0.878    | 0.408            | 0.360          | 0.046         | 1.286     | 1.238     | 0.924     | 1.284     | No       |
|  | Front  | 0.226    | 0.081            | 0.102          | 0.010         | 0.307     | 0.328     | 0.236     | 0.338     | No       |
|  | Left   | 0.379    | 0.000            | 0.043          | 0.001         | 0.379     | 0.422     | 0.380     | 0.423     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.117    | 0.120            | 0.210          | 0.013         | 0.237     | 0.327     | 0.130     | 0.340     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 48  | Rear   | 0.253    | 0.408            | 0.360          | 0.046         | 0.661     | 0.613     | 0.299     | 0.659     | No       |
|  | Front  | 0.249    | 0.081            | 0.102          | 0.010         | 0.330     | 0.351     | 0.259     | 0.361     | No       |
|  | Left   | 0.077    | 0.000            | 0.043          | 0.001         | 0.077     | 0.120     | 0.078     | 0.121     | No       |
|  | Right  |          |                  |                |               |           |           |           |           | No       |
|  | Top    | 0.303    | 0.120            | 0.210          | 0.013         | 0.423     | 0.513     | 0.316     | 0.526     | No       |
|  | Bottom |          |                  |                |               |           |           |           |           | No       |
| LTE Band 66  | Rear   | 0.407    | 0.408            | 0.360          | 0.046         | 0.815     | 0.767     | 0.453     | 0.813     | No       |
|  | Front  | 0.205    | 0.081            | 0.102          | 0.010         | 0.286     | 0.307     | 0.215     | 0.317     | No       |
|  | Left   | 0.175    | 0.000            | 0.043          | 0.001         | 0.175     | 0.218     | 0.176     | 0.219     | No       |
|  | Right  | 0.098    |                  |                |               | 0.098     | 0.098     | 0.098     | 0.098     | No       |
|  | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.251    |                  |                |               | 0.251     | 0.251     | 0.251     | 0.251     | No       |



**Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm**

| Band              |        | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|-------------------|--------|----------|------------------|----------------|---------------|-----------|-----------|-----------|-----------|----------|
|                   |        | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|                   |        | 1        | 2                | 3              | 4             | 1+2       | 1+3       | 1+4       | 1+3+4     |          |
| LTE Band 71       | Rear   | 0.483    | 0.408            | 0.360          | 0.046         | 0.901     | 0.853     | 0.539     | 0.899     | No       |
|                   | Front  | 0.229    | 0.081            | 0.102          | 0.010         | 0.314     | 0.335     | 0.243     | 0.345     | No       |
|                   | Left   | 0.163    | 0.000            | 0.043          | 0.001         | 0.166     | 0.209     | 0.167     | 0.21      | No       |
|                   | Right  | 0.291    |                  |                |               | 0.297     | 0.297     | 0.297     | 0.297     | No       |
|                   | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|                   | Bottom | 0.176    |                  |                |               | 0.179     | 0.179     | 0.179     | 0.179     | No       |
| NR Band n5        | Rear   | 0.589    | 0.408            | 0.360          | 0.046         | 0.997     | 0.949     | 0.635     | 0.995     | No       |
|                   | Front  | 0.249    | 0.081            | 0.102          | 0.010         | 0.330     | 0.351     | 0.259     | 0.361     | No       |
|                   | Left   | 0.146    | 0.000            | 0.043          | 0.001         | 0.146     | 0.189     | 0.147     | 0.190     | No       |
|                   | Right  | 0.298    |                  |                |               | 0.298     | 0.298     | 0.298     | 0.298     | No       |
|                   | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|                   | Bottom | 0.261    |                  |                |               | 0.261     | 0.261     | 0.261     | 0.261     | No       |
| NR Band n25       | Rear   | 0.573    | 0.408            | 0.360          | 0.046         | 0.981     | 0.933     | 0.619     | 0.979     | No       |
|                   | Front  | 0.284    | 0.081            | 0.102          | 0.010         | 0.365     | 0.386     | 0.294     | 0.396     | No       |
|                   | Left   | 0.245    | 0.000            | 0.043          | 0.001         | 0.245     | 0.288     | 0.246     | 0.289     | No       |
|                   | Right  | 0.113    |                  |                |               | 0.113     | 0.113     | 0.113     | 0.113     | No       |
|                   | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|                   | Bottom | 0.431    |                  |                |               | 0.431     | 0.431     | 0.431     | 0.431     | No       |
| NR Band n41 (PC3) | Rear   | 0.572    | 0.408            | 0.360          | 0.046         | 0.980     | 0.932     | 0.618     | 0.978     | No       |
|                   | Front  | 0.083    | 0.081            | 0.102          | 0.010         | 0.164     | 0.185     | 0.093     | 0.195     | No       |
|                   | Left   | 0.269    | 0.000            | 0.043          | 0.001         | 0.269     | 0.312     | 0.270     | 0.313     | No       |
|                   | Right  |          |                  |                |               |           |           |           |           | No       |
|                   | Top    | 0.060    | 0.120            | 0.210          | 0.013         | 0.180     | 0.270     | 0.073     | 0.283     | No       |
|                   | Bottom |          |                  |                |               |           |           |           |           | No       |
| NR Band n41 (PC2) | Rear   | 1.142    | 0.408            | 0.360          | 0.046         | 1.55      | 1.502     | 1.188     | 1.548     | No       |
|                   | Front  | 0.082    | 0.081            | 0.102          | 0.010         | 0.163     | 0.184     | 0.092     | 0.194     | No       |
|                   | Left   | 0.401    | 0.000            | 0.043          | 0.001         | 0.401     | 0.444     | 0.402     | 0.445     | No       |
|                   | Right  |          |                  |                |               |           |           |           |           | No       |
|                   | Top    | 0.084    | 0.120            | 0.210          | 0.013         | 0.204     | 0.294     | 0.097     | 0.307     | No       |
|                   | Bottom |          |                  |                |               |           |           |           |           | No       |
| NR Band n66       | Rear   | 0.570    | 0.408            | 0.360          | 0.046         | 0.978     | 0.930     | 0.616     | 0.976     | No       |
|                   | Front  | 0.368    | 0.081            | 0.102          | 0.010         | 0.449     | 0.470     | 0.378     | 0.480     | No       |
|                   | Left   | 0.206    | 0.000            | 0.043          | 0.001         | 0.206     | 0.249     | 0.207     | 0.250     | No       |
|                   | Right  | 0.133    |                  |                |               | 0.133     | 0.133     | 0.133     | 0.133     | No       |
|                   | Top    |          | 0.120            | 0.210          | 0.013         | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|                   | Bottom | 0.382    |                  |                |               | 0.382     | 0.382     | 0.382     | 0.382     | No       |

**Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm**

| Band        |        | WWAN SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | SPLSR    |
|-------------|--------|----------|------------------|----------------|---------------|------------------|------------------|------------------|------------------|----------|
|             |        | (W/kg)   | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)           | (W/kg)           | (W/kg)           | (W/kg)           | (Yes/No) |
|             |        | 1        | 2                | 3              | 4             | 1+2              | 1+3              | 1+4              | 1+3+4            |          |
| NR Band n71 | Rear   | 0.463    | 0.408            | 0.360          | 0.046         | 0.871            | 0.823            | 0.509            | 0.869            | No       |
|             | Front  | 0.232    | 0.081            | 0.102          | 0.010         | 0.313            | 0.334            | 0.242            | 0.344            | No       |
|             | Left   | 0.214    | 0.000            | 0.043          | 0.001         | 0.214            | 0.257            | 0.215            | 0.258            | No       |
|             | Right  | 0.331    |                  |                |               | 0.331            | 0.331            | 0.331            | 0.331            | No       |
|             | Top    |          | 0.120            | 0.210          | 0.013         | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|             | Bottom | 0.145    |                  |                |               | 0.145            | 0.145            | 0.145            | 0.145            | No       |
| NR Band n77 | Rear   | 0.288    | 0.408            | 0.360          | 0.046         | 0.696            | 0.648            | 0.334            | 0.694            | No       |
|             | Front  | 0.151    | 0.081            | 0.102          | 0.010         | 0.232            | 0.253            | 0.161            | 0.263            | No       |
|             | Left   | 0.141    | 0.000            | 0.043          | 0.001         | 0.141            | 0.184            | 0.142            | 0.185            | No       |
|             | Right  |          |                  |                |               |                  |                  |                  |                  | No       |
|             | Top    | 0.638    | 0.120            | 0.210          | 0.013         | 0.758            | 0.848            | 0.651            | 0.861            | No       |
|             | Bottom |          |                  |                |               |                  |                  |                  |                  | No       |



Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm

| Band         |        | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | $\Sigma$ 1-g SAR (EN-DC) | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | SPLSR    |
|--------------|--------|--------|---------|------------------|----------------|---------------|--------------------------|------------------|------------------|------------------|------------------|----------|
|              |        | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)                   | (W/kg)           | (W/kg)           | (W/kg)           | (W/kg)           | (Yes/No) |
|              |        | 1      | 2       | 3                | 4              | 5             | 1+2                      | 1+2+3            | 1+2+4            | 1+2+5            | 1+2+4+5          |          |
| NR5 + LTE2   | Rear   | 0.589  | 0.520   | 0.408            | 0.360          | 0.046         | 1.109                    | 1.517            | 1.469            | 1.155            | 1.515            | No       |
|              | Front  | 0.249  | 0.194   | 0.081            | 0.102          | 0.010         | 0.443                    | 0.524            | 0.545            | 0.453            | 0.555            | No       |
|              | Left   | 0.146  | 0.235   | 0.000            | 0.043          | 0.001         | 0.381                    | 0.381            | 0.424            | 0.382            | 0.425            | No       |
|              | Right  | 0.298  | 0.110   |                  |                |               | 0.408                    | 0.408            | 0.408            | 0.408            | 0.408            | No       |
|              | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000                    | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|              | Bottom | 0.261  | 0.467   |                  |                |               | 0.728                    | 0.728            | 0.728            | 0.728            | 0.728            | No       |
| NR5 + LTE30  | Rear   | 0.589  | 0.588   | 0.408            | 0.360          | 0.046         | 1.177                    | <b>1.585</b>     | 1.537            | 1.223            | 1.583            | No       |
|              | Front  | 0.249  | 0.086   | 0.081            | 0.102          | 0.010         | 0.335                    | 0.416            | 0.437            | 0.345            | 0.447            | No       |
|              | Left   | 0.146  | 0.280   | 0.000            | 0.043          | 0.001         | 0.426                    | 0.426            | 0.469            | 0.427            | 0.470            | No       |
|              | Right  | 0.298  |         |                  |                |               | 0.298                    | 0.298            | 0.298            | 0.298            | 0.298            | No       |
|              | Top    |        | 0.050   | 0.120            | 0.210          | 0.013         | 0.050                    | 0.170            | 0.260            | 0.063            | 0.273            | No       |
|              | Bottom | 0.261  |         |                  |                |               | 0.261                    | 0.261            | 0.261            | 0.261            | 0.261            | No       |
| NR5 + LTE48  | Rear   | 0.589  | 0.253   | 0.408            | 0.360          | 0.046         | 0.842                    | 1.250            | 1.202            | 0.888            | 1.248            | No       |
|              | Front  | 0.249  | 0.249   | 0.081            | 0.102          | 0.010         | 0.498                    | 0.579            | 0.600            | 0.508            | 0.610            | No       |
|              | Left   | 0.146  | 0.077   | 0.000            | 0.043          | 0.001         | 0.223                    | 0.223            | 0.266            | 0.224            | 0.267            | No       |
|              | Right  | 0.298  |         |                  |                |               | 0.298                    | 0.298            | 0.298            | 0.298            | 0.298            | No       |
|              | Top    |        | 0.303   | 0.120            | 0.210          | 0.013         | 0.303                    | 0.423            | 0.513            | 0.316            | 0.526            | No       |
|              | Bottom | 0.261  |         |                  |                |               | 0.261                    | 0.261            | 0.261            | 0.261            | 0.261            | No       |
| NR5 + LTE66  | Rear   | 0.589  | 0.407   | 0.408            | 0.360          | 0.046         | 0.996                    | 1.404            | 1.356            | 1.042            | 1.402            | No       |
|              | Front  | 0.249  | 0.205   | 0.081            | 0.102          | 0.010         | 0.454                    | 0.535            | 0.556            | 0.464            | 0.566            | No       |
|              | Left   | 0.146  | 0.175   | 0.000            | 0.043          | 0.001         | 0.321                    | 0.321            | 0.364            | 0.322            | 0.365            | No       |
|              | Right  | 0.298  | 0.098   |                  |                |               | 0.396                    | 0.396            | 0.396            | 0.396            | 0.396            | No       |
|              | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000                    | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|              | Bottom | 0.261  | 0.251   |                  |                |               | 0.512                    | 0.512            | 0.512            | 0.512            | 0.512            | No       |
| NR25 + LTE12 | Rear   | 0.573  | 0.601   | 0.408            | 0.360          | 0.046         | 1.174                    | 1.582            | 1.534            | 1.220            | 1.580            | No       |
|              | Front  | 0.284  | 0.249   | 0.081            | 0.102          | 0.010         | 0.533                    | 0.614            | 0.635            | 0.543            | 0.645            | No       |
|              | Left   | 0.245  | 0.164   | 0.000            | 0.043          | 0.001         | 0.409                    | 0.409            | 0.452            | 0.410            | 0.453            | No       |
|              | Right  | 0.113  | 0.311   |                  |                |               | 0.424                    | 0.424            | 0.424            | 0.424            | 0.424            | No       |
|              | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000                    | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|              | Bottom | 0.431  | 0.210   |                  |                |               | 0.641                    | 0.641            | 0.641            | 0.641            | 0.641            | No       |
| NR41 + LTE2  | Rear   | 0.572  | 0.520   | 0.408            | 0.360          | 0.046         | 1.092                    | 1.500            | 1.452            | 1.138            | 1.498            | No       |
|              | Front  | 0.083  | 0.194   | 0.081            | 0.102          | 0.010         | 0.277                    | 0.358            | 0.379            | 0.287            | 0.389            | No       |
|              | Left   | 0.269  | 0.235   | 0.000            | 0.043          | 0.001         | 0.504                    | 0.504            | 0.547            | 0.505            | 0.548            | No       |
|              | Right  |        | 0.110   |                  |                |               | 0.110                    | 0.110            | 0.110            | 0.110            | 0.110            | No       |
|              | Top    | 0.060  |         | 0.120            | 0.210          | 0.013         | 0.060                    | 0.180            | 0.270            | 0.073            | 0.283            | No       |
|              | Bottom |        | 0.467   |                  |                |               | 0.467                    | 0.467            | 0.467            | 0.467            | 0.467            | No       |
| NR41 + LTE12 | Rear   | 0.572  | 0.601   | 0.408            | 0.360          | 0.046         | 1.173                    | 1.581            | 1.533            | 1.219            | 1.579            | No       |
|              | Front  | 0.083  | 0.249   | 0.081            | 0.102          | 0.010         | 0.332                    | 0.413            | 0.434            | 0.342            | 0.444            | No       |
|              | Left   | 0.269  | 0.164   | 0.000            | 0.043          | 0.001         | 0.433                    | 0.433            | 0.476            | 0.434            | 0.477            | No       |
|              | Right  |        | 0.311   |                  |                |               | 0.311                    | 0.311            | 0.311            | 0.311            | 0.311            | No       |
|              | Top    | 0.060  |         | 0.120            | 0.210          | 0.013         | 0.060                    | 0.180            | 0.270            | 0.073            | 0.283            | No       |
|              | Bottom |        | 0.210   |                  |                |               | 0.210                    | 0.210            | 0.210            | 0.210            | 0.210            | No       |
| NR41 + LTE25 | Rear   | 0.572  | 0.520   | 0.408            | 0.360          | 0.046         | 1.092                    | 1.500            | 1.452            | 1.138            | 1.498            | No       |
|              | Front  | 0.083  | 0.194   | 0.081            | 0.102          | 0.010         | 0.277                    | 0.358            | 0.379            | 0.287            | 0.389            | No       |
|              | Left   | 0.269  | 0.235   | 0.000            | 0.043          | 0.001         | 0.504                    | 0.504            | 0.547            | 0.505            | 0.548            | No       |
|              | Right  |        | 0.110   |                  |                |               | 0.110                    | 0.110            | 0.110            | 0.110            | 0.110            | No       |
|              | Top    | 0.060  |         | 0.120            | 0.210          | 0.013         | 0.060                    | 0.180            | 0.270            | 0.073            | 0.283            | No       |

|  |        | Bottom | 0.467   |                  |                |               | 0.467             | 0.467     | 0.467     | 0.467     | 0.467     | No       |
|--|--------|--------|---------|------------------|----------------|---------------|-------------------|-----------|-----------|-----------|-----------|----------|
| Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm |        |        |         |                  |                |               |                   |           |           |           |           |          |
| Band   |        | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | ∑ 1-g SAR (EN-DC) | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | ∑ 1-g SAR | SPLSR    |
|  |        | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)            | (W/kg)    | (W/kg)    | (W/kg)    | (W/kg)    | (Yes/No) |
|  |        | 1      | 2       | 3                | 4              | 5             | 1+2               | 1+2+3     | 1+2+4     | 1+2+5     | 1+2+4+5   |          |
| NR41 + LTE66   | Rear   | 0.572  | 0.407   | 0.408            | 0.360          | 0.046         | 0.979             | 1.387     | 1.339     | 1.025     | 1.385     | No       |
|  | Front  | 0.083  | 0.205   | 0.081            | 0.102          | 0.010         | 0.288             | 0.369     | 0.390     | 0.298     | 0.400     | No       |
|  | Left   | 0.269  | 0.175   | 0.000            | 0.043          | 0.001         | 0.444             | 0.444     | 0.487     | 0.445     | 0.488     | No       |
|  | Right  |        | 0.098   |                  |                |               | 0.098             | 0.098     | 0.098     | 0.098     | 0.098     | No       |
|  | Top    | 0.060  |         | 0.120            | 0.210          | 0.013         | 0.060             | 0.180     | 0.270     | 0.073     | 0.283     | No       |
|  | Bottom |        | 0.251   |                  |                |               |                   | 0.251     | 0.251     | 0.251     | 0.251     | 0.251    |
| NR66 + LTE5  | Rear   | 0.570  | 0.604   | 0.408            | 0.360          | 0.046         | 1.174             | 1.582     | 1.534     | 1.220     | 1.580     | No       |
|  | Front  | 0.368  | 0.237   | 0.081            | 0.102          | 0.010         | 0.605             | 0.686     | 0.707     | 0.615     | 0.717     | No       |
|  | Left   | 0.206  | 0.126   | 0.000            | 0.043          | 0.001         | 0.332             | 0.332     | 0.375     | 0.333     | 0.376     | No       |
|  | Right  | 0.133  | 0.174   |                  |                |               | 0.307             | 0.307     | 0.307     | 0.307     | 0.307     | No       |
|  | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000             | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.382  | 0.215   |                  |                |               | 0.597             | 0.597     | 0.597     | 0.597     | 0.597     | No       |
| NR66 + LTE12   | Rear   | 0.570  | 0.601   | 0.408            | 0.360          | 0.046         | 1.171             | 1.579     | 1.531     | 1.217     | 1.577     | No       |
|  | Front  | 0.368  | 0.249   | 0.081            | 0.102          | 0.010         | 0.617             | 0.698     | 0.719     | 0.627     | 0.729     | No       |
|  | Left   | 0.206  | 0.164   | 0.000            | 0.043          | 0.001         | 0.370             | 0.370     | 0.413     | 0.371     | 0.414     | No       |
|  | Right  | 0.133  | 0.311   |                  |                |               | 0.444             | 0.444     | 0.444     | 0.444     | 0.444     | No       |
|  | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000             | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.382  | 0.210   |                  |                |               | 0.592             | 0.592     | 0.592     | 0.592     | 0.592     | No       |
| NR66 + LTE13   | Rear   | 0.570  | 0.171   | 0.408            | 0.360          | 0.046         | 0.741             | 1.149     | 1.101     | 0.787     | 1.147     | No       |
|  | Front  | 0.368  | 0.087   | 0.081            | 0.102          | 0.010         | 0.455             | 0.536     | 0.557     | 0.465     | 0.567     | No       |
|  | Left   | 0.206  | 0.155   | 0.000            | 0.043          | 0.001         | 0.361             | 0.361     | 0.404     | 0.362     | 0.405     | No       |
|  | Right  | 0.133  | 0.272   |                  |                |               | 0.405             | 0.405     | 0.405     | 0.405     | 0.405     | No       |
|  | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000             | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.382  | 0.023   |                  |                |               | 0.405             | 0.405     | 0.405     | 0.405     | 0.405     | No       |
| NR66 + LTE14   | Rear   | 0.570  | 0.161   | 0.408            | 0.360          | 0.046         | 0.731             | 1.139     | 1.091     | 0.777     | 1.137     | No       |
|  | Front  | 0.368  | 0.085   | 0.081            | 0.102          | 0.010         | 0.453             | 0.534     | 0.555     | 0.463     | 0.565     | No       |
|  | Left   | 0.206  | 0.099   | 0.000            | 0.043          | 0.001         | 0.305             | 0.305     | 0.348     | 0.306     | 0.349     | No       |
|  | Right  | 0.133  | 0.222   |                  |                |               | 0.355             | 0.355     | 0.355     | 0.355     | 0.355     | No       |
|  | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000             | 0.120     | 0.210     | 0.013     | 0.223     | No       |
|  | Bottom | 0.382  | 0.027   |                  |                |               | 0.409             | 0.409     | 0.409     | 0.409     | 0.409     | No       |
| NR66 + LTE48   | Rear   | 0.570  | 0.253   | 0.408            | 0.360          | 0.046         | 0.823             | 1.231     | 1.183     | 0.869     | 1.229     | No       |
|  | Front  | 0.368  | 0.249   | 0.081            | 0.102          | 0.010         | 0.617             | 0.698     | 0.719     | 0.627     | 0.729     | No       |
|  | Left   | 0.206  | 0.077   | 0.000            | 0.043          | 0.001         | 0.283             | 0.283     | 0.326     | 0.284     | 0.327     | No       |
|  | Right  | 0.133  |         |                  |                |               | 0.133             | 0.133     | 0.133     | 0.133     | 0.133     | No       |
|  | Top    |        | 0.303   | 0.120            | 0.210          | 0.013         | 0.303             | 0.423     | 0.513     | 0.316     | 0.526     | No       |
|  | Bottom | 0.382  |         |                  |                |               | 0.382             | 0.382     | 0.382     | 0.382     | 0.382     | No       |

**Simultaneous Transmission Summation Scenario (Hotspot SAR) – Distance: 10 mm**

| Band         |        | NR SAR | LTE SAR | 2.4 GHz WLAN SAR | 5 GHz WLAN SAR | Bluetooth SAR | $\Sigma$ 1-g SAR (EN-DC) | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | $\Sigma$ 1-g SAR | SPLSR    |
|--------------|--------|--------|---------|------------------|----------------|---------------|--------------------------|------------------|------------------|------------------|------------------|----------|
|              |        | (W/kg) | (W/kg)  | (W/kg)           | (W/kg)         | (W/kg)        | (W/kg)                   | (W/kg)           | (W/kg)           | (W/kg)           | (W/kg)           | (Yes/No) |
|              |        | 1      | 2       | 3                | 4              | 5             | 1+2                      | 1+2+3            | 1+2+4            | 1+2+5            | 1+2+4+5          |          |
| NR71 + LTE2  | Rear   | 0.463  | 0.520   | 0.408            | 0.360          | 0.046         | 0.983                    | 1.391            | 1.343            | 1.029            | 1.389            | No       |
|              | Front  | 0.232  | 0.194   | 0.081            | 0.102          | 0.010         | 0.426                    | 0.507            | 0.528            | 0.436            | 0.538            | No       |
|              | Left   | 0.214  | 0.235   | 0.000            | 0.043          | 0.001         | 0.449                    | 0.449            | 0.492            | 0.450            | 0.493            | No       |
|              | Right  | 0.331  | 0.110   |                  |                |               | 0.441                    | 0.441            | 0.441            | 0.441            | 0.441            | No       |
|              | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000                    | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|              | Bottom | 0.145  | 0.467   |                  |                |               | 0.612                    | 0.612            | 0.612            | 0.612            | 0.612            | No       |
| NR71 + LTE7  | Rear   | 0.463  | 0.495   | 0.408            | 0.360          | 0.046         | 0.958                    | 1.366            | 1.318            | 1.004            | 1.364            | No       |
|              | Front  | 0.232  | 0.061   | 0.081            | 0.102          | 0.010         | 0.293                    | 0.374            | 0.395            | 0.303            | 0.405            | No       |
|              | Left   | 0.214  | 0.229   | 0.000            | 0.043          | 0.001         | 0.443                    | 0.443            | 0.486            | 0.444            | 0.487            | No       |
|              | Right  | 0.331  |         |                  |                |               | 0.331                    | 0.331            | 0.331            | 0.331            | 0.331            | No       |
|              | Top    |        | 0.062   | 0.120            | 0.210          | 0.013         | 0.062                    | 0.182            | 0.272            | 0.075            | 0.285            | No       |
|              | Bottom | 0.145  |         |                  |                |               | 0.145                    | 0.145            | 0.145            | 0.145            | 0.145            | No       |
| NR71 + LTE66 | Rear   | 0.463  | 0.407   | 0.408            | 0.360          | 0.046         | 0.87                     | 1.278            | 1.230            | 0.916            | 1.276            | No       |
|              | Front  | 0.232  | 0.205   | 0.081            | 0.102          | 0.010         | 0.437                    | 0.518            | 0.539            | 0.447            | 0.549            | No       |
|              | Left   | 0.214  | 0.175   | 0.000            | 0.043          | 0.001         | 0.389                    | 0.389            | 0.432            | 0.390            | 0.433            | No       |
|              | Right  | 0.331  | 0.098   |                  |                |               | 0.429                    | 0.429            | 0.429            | 0.429            | 0.429            | No       |
|              | Top    |        |         | 0.120            | 0.210          | 0.013         | 0.000                    | 0.120            | 0.210            | 0.013            | 0.223            | No       |
|              | Bottom | 0.145  | 0.251   |                  |                |               | 0.396                    | 0.396            | 0.396            | 0.396            | 0.396            | No       |
| NR77 + LTE2  | Rear   | 0.288  | 0.520   | 0.408            | 0.360          | 0.046         | 0.808                    | 1.216            | 1.168            | 0.854            | 1.214            | No       |
|              | Front  | 0.151  | 0.194   | 0.081            | 0.102          | 0.010         | 0.345                    | 0.426            | 0.447            | 0.355            | 0.457            | No       |
|              | Left   | 0.141  | 0.235   | 0.000            | 0.043          | 0.001         | 0.376                    | 0.376            | 0.419            | 0.377            | 0.420            | No       |
|              | Right  |        | 0.110   |                  |                |               | 0.110                    | 0.110            | 0.110            | 0.110            | 0.110            | No       |
|              | Top    | 0.638  |         | 0.120            | 0.210          | 0.013         | 0.638                    | 0.758            | 0.848            | 0.651            | 0.861            | No       |
|              | Bottom |        | 0.467   |                  |                |               | 0.467                    | 0.467            | 0.467            | 0.467            | 0.467            | No       |
| NR77 + LTE5  | Rear   | 0.288  | 0.604   | 0.408            | 0.360          | 0.046         | 0.892                    | 1.300            | 1.252            | 0.938            | 1.298            | No       |
|              | Front  | 0.151  | 0.237   | 0.081            | 0.102          | 0.010         | 0.388                    | 0.469            | 0.490            | 0.398            | 0.500            | No       |
|              | Left   | 0.141  | 0.126   | 0.000            | 0.043          | 0.001         | 0.267                    | 0.267            | 0.310            | 0.268            | 0.311            | No       |
|              | Right  |        | 0.174   |                  |                |               | 0.174                    | 0.174            | 0.174            | 0.174            | 0.174            | No       |
|              | Top    | 0.638  |         | 0.120            | 0.210          | 0.013         | 0.638                    | 0.758            | 0.848            | 0.651            | 0.861            | No       |
|              | Bottom |        | 0.215   |                  |                |               | 0.215                    | 0.215            | 0.215            | 0.215            | 0.215            | No       |
| NR77 + LTE13 | Rear   | 0.288  | 0.171   | 0.408            | 0.360          | 0.046         | 0.459                    | 0.867            | 0.819            | 0.505            | 0.865            | No       |
|              | Front  | 0.151  | 0.087   | 0.081            | 0.102          | 0.010         | 0.238                    | 0.319            | 0.340            | 0.248            | 0.350            | No       |
|              | Left   | 0.141  | 0.155   | 0.000            | 0.043          | 0.001         | 0.296                    | 0.296            | 0.339            | 0.297            | 0.340            | No       |
|              | Right  |        | 0.272   |                  |                |               | 0.272                    | 0.272            | 0.272            | 0.272            | 0.272            | No       |
|              | Top    | 0.638  |         | 0.120            | 0.210          | 0.013         | 0.638                    | 0.758            | 0.848            | 0.651            | 0.861            | No       |
|              | Bottom |        | 0.023   |                  |                |               | 0.023                    | 0.023            | 0.023            | 0.023            | 0.023            | No       |
| NR77 + LTE66 | Rear   | 0.288  | 0.407   | 0.408            | 0.360          | 0.046         | 0.695                    | 1.103            | 1.055            | 0.741            | 1.101            | No       |
|              | Front  | 0.151  | 0.205   | 0.081            | 0.102          | 0.010         | 0.356                    | 0.437            | 0.458            | 0.366            | 0.468            | No       |
|              | Left   | 0.141  | 0.175   | 0.000            | 0.043          | 0.001         | 0.316                    | 0.316            | 0.359            | 0.317            | 0.360            | No       |
|              | Right  |        | 0.098   |                  |                |               | 0.098                    | 0.098            | 0.098            | 0.098            | 0.098            | No       |
|              | Top    | 0.638  |         | 0.120            | 0.210          | 0.013         | 0.638                    | 0.758            | 0.848            | 0.651            | 0.861            | No       |
|              | Bottom |        | 0.251   |                  |                |               | 0.251                    | 0.251            | 0.251            | 0.251            | 0.251            | No       |

### 14.4 Phablet SAR Simultaneous Transmission Analysis

| Simultaneous Transmission Scenario with 5 GHz WLAN |               |                   |        |          |                |                   |
|--|---------------|-------------------|--------|----------|----------------|-------------------|
| Exposure condition                                 | Distance (mm) | Band              |        | WWAN SAR | 5 GHz WLAN SAR | $\Sigma$ 10-g SAR |
|  |               |                   |        | (W/kg)   | (W/kg)         | (W/kg)            |
| Phablet  | 0             | LTE 7             | Rear   | 0.959    | 1.373          | 2.332             |
|  |               |                   | Front  | 0.546    | 0.310          | 0.856             |
|  |               |                   | Left   | 0.686    | 0.216          | 0.902             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.481    | 0.381          | 0.862             |
|  |               |                   | Bottom |          |                |                   |
|  |               | LTE 30            | Rear   | 1.068    | 1.373          | 2.441             |
|  |               |                   | Front  | 0.603    | 0.310          | 0.913             |
|  |               |                   | Left   | 0.645    | 0.216          | 0.861             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.208    | 0.381          | 0.589             |
|  |               |                   | Bottom |          |                |                   |
|  |               | LTE 41            | Rear   | 1.189    | 1.373          | 2.562             |
|  |               |                   | Front  | 0.648    | 0.310          | 0.958             |
|  |               |                   | Left   | 0.797    | 0.216          | 1.013             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.391    | 0.381          | 0.772             |
|  |               |                   | Bottom |          |                |                   |
|  |               | NR Band n25       | Rear   | 1.279    | 1.373          | 2.661             |
|  |               |                   | Front  | 1.865    | 0.310          | 2.175             |
|  |               |                   | Left   | 1.609    | 0.216          | 1.825             |
|  |               |                   | Right  | 0.334    |                | 0.334             |
|  |               |                   | Top    |          | 0.381          | 0.381             |
|  |               |                   | Bottom | 1.659    |                | 1.659             |
|  |               | NR Band n41 (PC3) | Rear   | 0.824    | 1.373          | 2.197             |
|  |               |                   | Front  | 0.458    | 0.310          | 0.768             |
|  |               |                   | Left   | 0.602    | 0.216          | 0.818             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.286    | 0.381          | 0.667             |
|  |               |                   | Bottom |          |                |                   |
|  |               | NR Band n41 (PC2) | Rear   | 1.337    | 1.373          | 2.710             |
|  |               |                   | Front  | 0.574    | 0.310          | 0.884             |
|  |               |                   | Left   | 0.965    | 0.216          | 1.181             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.445    | 0.381          | 0.826             |
|  |               |                   | Bottom |          |                |                   |
|  |               | NR Band n66       | Rear   | 1.568    | 1.373          | <b>2.941</b>      |
|  |               |                   | Front  | 1.763    | 0.310          | 2.073             |
|  |               |                   | Left   | 1.287    | 0.216          | 1.503             |
|  |               |                   | Right  | 0.341    |                | 0.341             |
|  |               |                   | Top    |          | 0.381          | 0.381             |
|  |               |                   | Bottom | 1.663    |                | 1.663             |
|  |               | NR Band n77       | Rear   | 0.799    | 1.373          | 2.172             |
|  |               |                   | Front  | 0.799    | 0.310          | 1.109             |
|  |               |                   | Left   | 0.799    | 0.216          | 1.015             |
|  |               |                   | Right  |          |                |                   |
|  |               |                   | Top    | 0.799    | 0.381          | 1.180             |
|  |               |                   | Bottom |          |                |                   |

### **14.5 Simultaneous Transmission Conclusion**

The above numerical summed SAR Results are sufficient to determine that simultaneous transmission cases will not exceed the SAR Limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE1528-2013.

## 15. SAR Measurement Variability and Uncertainty

In accordance with KDB procedure 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz, SAR additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement variability was assessed using the following procedures for each frequency band:

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg for 1g SAR or < 2.0 W/kg for 10g SAR; steps 2) through 4) do not apply.
- 2) When the original highest measured 1g SAR is  $\geq 0.80$  W/kg or 10g SAR  $\geq 2.0$ W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is  $\geq 1.45$  W/kg for 1g SAR or  $\geq 3.625$  W/kg for 10g SAR (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is  $\geq 1.5$  W/kg for 1g SAR or  $\geq 3.75$  W/kg for 10g SAR and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

Body-Worn SAR measurement variability Results

| Frequency |         | Mode/Band                     | Configuration | Measured SAR (W/kg) | Measured SAR (W/kg) | SAR Ratio |
|-----------|---------|-------------------------------|---------------|---------------------|---------------------|-----------|
| MHz       | Channel |                               |               |                     |                     |           |
| 2 593.0   | 40620   | LTE TDD 41 (PC3)<br>(Ant. #2) | Rear          | 1.05                | 1.00                | 1.05      |

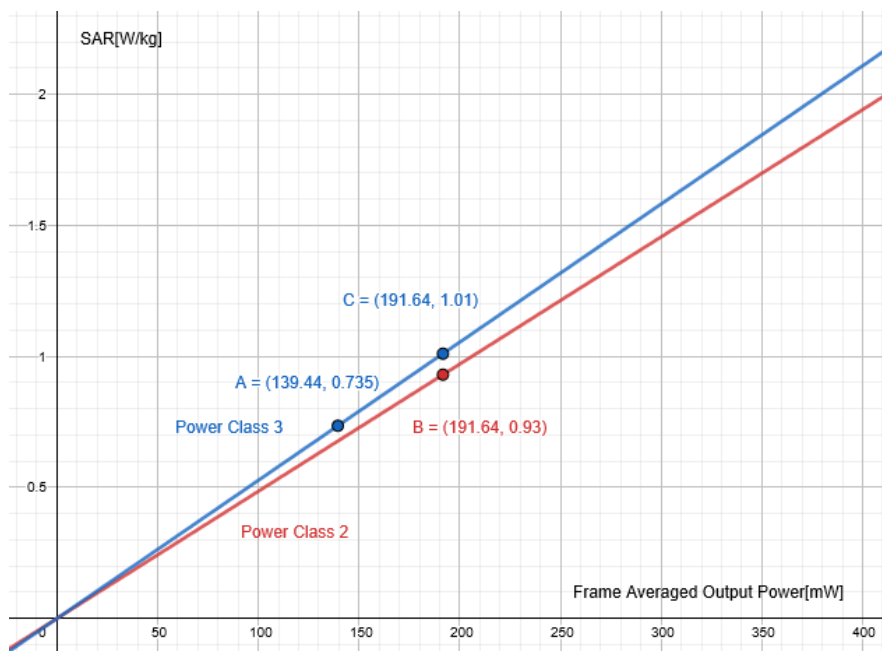
## 16. LTE Band 41 Power Class 2 and Power class 3 Linearity

This Device Supports Power Class 2 and Power Class 3 operations for LTE band 41. The Highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL Configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power class 3. SAR with power class 2 at the highest power and available duty factor was additionally performed for the power class 2 configuration with the Highest SAR for each exposure condition.

The linearity between the power class 3 and Power class 2 SAR Results and the respective frame averaged powers was calculated to determine the results were linear.

Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes as less than 10 % and all reported SAR values were < 1.4 W/kg

| LTE Band 41 Body-worn Linearity Data Table |                |                |
|--|----------------|----------------|
| Configurations                             | LTE Band41 PC3 | LTE Band41 PC2 |
| Maximum Allowed Output Power[dBm]          | 24             | 27             |
| Measured Output Power[dBm]                 | 23.43          | 26.46          |
| Measured SAR[W/kg]                         | 0.735          | 0.93           |
| Duty Cycle                                 | 220.29         | 442.59         |
| Frame Averaged Output Power[mW]            | 63.30%         | 43.30%         |
|  | 139.44         | 191.64         |
| % deviation from expected linearity        | 0.005271084    | 0.004852849    |



## 17. Measurement Uncertainty

The measured SAR was  $<1.5$  W/Kg for 1g SAR and  $<3.75$  W/Kg For 10g SAR for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE1528-2013 was not required.



## 18. SAR Test Equipment

| Manufacturer | Type / Model             | S/N                | Calib. Date | Calib.Interval | Calib.Due  |
|--------------|--------------------------|--------------------|-------------|----------------|------------|
| SPEAG        | Triple Modular Phantom   | -                  | N/A         | N/A            | N/A        |
| SPEAG        | SAM Phantom              | -                  | N/A         | N/A            | N/A        |
| HP           | SAR System Control PC    | -                  | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX60           | F10/ 5D1CA1/C/01   | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX90           | F12/5K9GA1/C/01    | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX90           | F17/59CHA1/C/01    | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX90           | F17/59RAA1/C/01    | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX90           | F13/5R4XF1/C/01    | N/A         | N/A            | N/A        |
| Staubli      | CS8Cspeag-TX90           | F/20/0018446/C/001 | N/A         | N/A            | N/A        |
| Staubli      | TX60 Lspeag              | F10/5D1CA1/A/01    | N/A         | N/A            | N/A        |
| Staubli      | TX90 XLspeag             | F12/5K9GA1/A/01    | N/A         | N/A            | N/A        |
| Staubli      | TX90 XLspeag             | F17/59CHA1/A/01    | N/A         | N/A            | N/A        |
| Staubli      | TX90 XLspeag             | F17/59RAA1/ A/01   | N/A         | N/A            | N/A        |
| Staubli      | TX90 XLspeag             | F13/5R4XF1/ A/01   | N/A         | N/A            | N/A        |
| Staubli      | TX90 XLspeag             | F/20/0018446/A/001 | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | S-1206 0513        | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | 01010963           | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | 011578             | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | S-1338 1332        | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | 010963             | N/A         | N/A            | N/A        |
| Staubli      | Teach Pendant (Joystick) | D21142608A         | N/A         | N/A            | N/A        |
| SPEAG        | DAE4                     | 869                | 09/28/2020  | Annual         | 09/28/2021 |
| SPEAG        | DAE4                     | 868                | 09/29/2020  | Annual         | 09/29/2021 |
| SPEAG        | DAE4                     | 1629               | 08/11/2020  | Annual         | 08/11/2021 |
| SPEAG        | DAE4                     | 466                | 04/22/2020  | Annual         | 04/22/2021 |
| SPEAG        | DAE4                     | 648                | 05/25/2020  | Annual         | 05/25/2021 |
| SPEAG        | DAE4                     | 652                | 01/21/2021  | Annual         | 01/21/2022 |
| SPEAG        | DAE4                     | 1417               | 02/26/2020  | Annual         | 02/26/2021 |
| SPEAG        | DAE4                     | 1225               | 08/07/2020  | Annual         | 08/07/2021 |
| SPEAG        | E-Field Probe ET3DV6     | 1630               | 02/26/2020  | Annual         | 02/26/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 7622               | 11/06/2020  | Annual         | 11/06/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 3968               | 09/28/2020  | Annual         | 09/28/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 3797               | 11/25/2020  | Annual         | 11/25/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 3903               | 03/25/2020  | Annual         | 03/25/2021 |
| SPEAG        | E-Field Probe ES3DV3     | 3076               | 07/31/2020  | Annual         | 07/31/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 3863               | 05/27/2020  | Annual         | 05/27/2021 |
| SPEAG        | E-Field Probe EX3DV4     | 7370               | 08/31/2020  | Annual         | 08/31/2021 |
| SPEAG        | Dipole D750V3            | 1014               | 05/19/2020  | Annual         | 05/19/2021 |
| SPEAG        | Dipole D835V2            | 4d165              | 07/28/2020  | Annual         | 07/28/2021 |
| SPEAG        | Dipole D1800V2           | 2d007              | 08/26/2020  | Annual         | 08/26/2021 |
| SPEAG        | Dipole D1900V2           | 5d061              | 01/21/2020  | Annual         | 01/21/2021 |
| SPEAG        | Dipole D1950V3           | 1230               | 08/26/2020  | Annual         | 08/26/2021 |
| SPEAG        | Dipole D2300V2           | 1010               | 08/26/2020  | Annual         | 08/26/2021 |
| SPEAG        | Dipole D2450V2           | 1049               | 08/26/2020  | Annual         | 08/26/2021 |
| SPEAG        | Dipole D2600V2           | 1015               | 08/26/2020  | Annual         | 08/26/2021 |
| SPEAG        | Dipole D3500V2           | 1040               | 01/28/2020  | Annual         | 01/28/2021 |
| SPEAG        | Dipole D3700V2           | 1066               | 11/19/2020  | Annual         | 11/19/2021 |
| SPEAG        | Dipole D3900V2           | 1019               | 05/22/2020  | Annual         | 05/22/2021 |
| SPEAG        | Dipole D5GHzV2           | 1253               | 08/31/2020  | Annual         | 08/31/2021 |
| Agilent      | Power Meter E4419B       | MY41291386         | 10/23/2020  | Annual         | 10/23/2021 |
| Agilent      | Power Meter N1911A       | MY45101406         | 08/31/2020  | Annual         | 08/31/2021 |
| Agilent      | Power Sensor 8481A       | SG1091286          | 10/05/2020  | Annual         | 10/05/2021 |
| Agilent      | Power Sensor 8481A       | MY41090873         | 10/05/2020  | Annual         | 10/05/2021 |
| Agilent      | Power Sensor N1921A      | MY55220026         | 08/31/2020  | Annual         | 08/31/2021 |
| SPEAG        | DAKS 3.5                 | 1038               | 03/24/2020  | Annual         | 03/24/2021 |
| H.P          | Network Analyzer /8753ES | JP39240221         | 01/28/2020  | Annual         | 01/28/2021 |

| Manufacturer | Type / Model                             | S/N         | Calib. Date | Calib.Interval | Calib.Due  |
|--------------|--|-------------|-------------|----------------|------------|
| H.P          | Network Analyzer /8753ES                 | JP39240221  | 01/11/2021  | Annual         | 01/11/2022 |
| Agilent      | WIRELESS COMMUNICATION E5515C            | MY48360252  | 08/06/2020  | Annual         | 08/06/2021 |
| Agilent      | WIRELESS COMMUNICATION E5515C            | GB44051865  | 06/01/2020  | Annual         | 06/01/2021 |
| Agilent      | Signal Generator N5182A                  | MY47070230  | 05/06/2020  | Annual         | 05/06/2021 |
| Agilent      | 11636B/Power Divider                     | 58698       | 02/28/2020  | Annual         | 02/28/2021 |
| TESTO        | 175-H1/Thermometer                       | 40331936309 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 40331939309 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 40331915309 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 40331922309 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 40332651310 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 44606559906 | 01/29/2020  | Annual         | 01/29/2021 |
| TESTO        | 175-H1/Thermometer                       | 40331936309 | 01/26/2021  | Annual         | 01/26/2022 |
| TESTO        | 175-H1/Thermometer                       | 40331939309 | 01/26/2021  | Annual         | 01/26/2022 |
| TESTO        | 175-H1/Thermometer                       | 40331915309 | 01/26/2021  | Annual         | 01/26/2022 |
| TESTO        | 175-H1/Thermometer                       | 40331922309 | 01/26/2021  | Annual         | 01/26/2022 |
| TESTO        | 175-H1/Thermometer                       | 40332651310 | 01/26/2021  | Annual         | 01/26/2022 |
| TESTO        | 175-H1/Thermometer                       | 44606559906 | 01/26/2021  | Annual         | 01/26/2022 |
| EMPOWER      | RF Power Amplifier                       | 1084        | 07/01/2020  | Annual         | 07/01/2021 |
| EMPOWER      | RF Power Amplifier                       | 1011        | 07/30/2020  | Annual         | 07/30/2021 |
| MICRO LAB    | LP Filter / LA-15N                       | 10453       | 10/05/2020  | Annual         | 10/05/2021 |
| MICRO LAB    | LP Filter / LA-30N                       | -           | 10/05/2020  | Annual         | 10/05/2021 |
| MICRO LAB    | LP Filter / LA-60N                       | 32011       | 10/05/2020  | Annual         | 10/05/2021 |
| Agilent      | Attenuator (3dB) 8693B                   | MY39260298  | 09/18/2020  | Annual         | 09/18/2021 |
| HP           | Attenuator (20dB) 8493C                  | 09271       | 09/18/2020  | Annual         | 09/18/2021 |
| Agilent      | Directional Bridge                       | 3140A03878  | 06/08/2020  | Annual         | 06/08/2021 |
| Agilent      | MXA Signal Analyzer N9020A               | MY50510407  | 10/23/2020  | Annual         | 10/23/2021 |
| HP           | Dual Directional Coupler                 | 16072       | 10/05/2020  | Annual         | 10/05/2021 |
| Anritsu      | Radio Communication Tester MT8820C       | 6200695605  | 05/06/2020  | Annual         | 05/06/2021 |
| Anritsu      | Radio Communication Tester MT8820C       | 6200628628  | 09/18/2020  | Annual         | 09/18/2021 |
| Anritsu      | Radio Communication Tester MT8821C       | 6201502997  | 08/06/2020  | Annual         | 08/06/2021 |
| Anritsu      | Radio Communication Tester MT8821C       | 6262044720  | 12/22/2020  | Annual         | 12/22/2021 |
| Anritsu      | Radio Communication Test Station MT8000A | 6262036812  | 12/22/2020  | Annual         | 12/22/2021 |
| R&S          | Bluetooth CBT                            | 100272      | 03/02/2020  | Annual         | 03/02/2021 |

\* The E-field probe was calibrated by SPEAG, by the waveguide technique procedure. Dipole Verification measurement is performed by HCT Lab. before each test. The brain/body simulating material is calibrated by HCT using the DAKS 3.5 to determine the conductivity and permittivity (dielectric constant) of the brain/body-equivalent material.

## 19. Conclusion

The SAR measurement indicates that the EUT complies with the RF radiation exposure limits of the ANSI/ IEEE C95.1 - 2005.

These measurements were taken to simulate the RF effects exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables.

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## 21. Appendix A. DUT Ant. Information & SETUP PHOTO

Please refer to test DUT Ant. Information & setup photo file no. as follows:

| No. | Description            |
|-----|------------------------|
| 0   | HCT-SR-2102-FC008-P    |
| 1   | HCT-SR-2102-FC008-P-R1 |
| 2   | HCT-SR-2102-FC008-P-R2 |