



# FCC RADIO TEST REPORT

**FCC ID** : PKRISGM2000A  
**Equipment** : Wireless Hotspot Modem  
**Brand Name** : Inseego  
**Model Name** : M2000A  
**Marketing Name** : M2000  
**Applicant** : Inseego Corporation  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Manufacturer** : Inseego Corporation  
9710 Scranton Road Suite 200, San Diego, CA 92121  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jul. 09, 2020 and testing was started from Aug. 01, 2020 and completed on Sep. 02, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**  
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## History of this test report

| Report No.   | Version | Description             | Issued Date   |
|--------------|---------|-------------------------|---------------|
| FG041657-01B | 01      | Initial issue of report | Sep. 16, 2020 |
|              |         |                         |               |
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|              |         |                         |               |



## Summary of Test Result

| Report Clause | Ref Std. Clause                                                                       | Test Items                                                                                                                       | Result (PASS/FAIL) | Remark |
|---------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|
| 3.2           | §2.1046                                                                               | Conducted Output Power                                                                                                           | Reporting only     | -      |
|               | §22.913 (a)(2)                                                                        | Effective Radiated Power (Band 5) (Band 26)                                                                                      | Pass               |        |
|               | §27.50 (b)(10)<br>§27.50 (c)(10)                                                      | Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)                                                                 |                    |        |
|               | §24.232 (c)<br>§27.50 (h)(2)                                                          | Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)                                              |                    |        |
|               | §27.50 (d)(4)                                                                         | Equivalent Isotropic Radiated Power (Band 4) (Band 66)                                                                           |                    |        |
| 3.3           | §24.232 (d)<br>§27.50 (d)(5)                                                          | Peak-to-Average Ratio                                                                                                            | Pass               | -      |
| 3.4           | §2.1049                                                                               | Occupied Bandwidth                                                                                                               | Reporting only     | -      |
| 3.5           | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)(4)<br>§27.53 (g)<br>§27.53 (h) | Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass               | -      |
|               | §2.1051<br>§27.53 (m)(4)                                                              | Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)                                                                     |                    |        |
| 3.6           | §2.1051<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (g)<br>§27.53 (h)    | Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)     | Pass               | -      |
|               | §2.1051<br>§27.53 (m)(4)                                                              | Conducted Spurious Emission (Band 7) (Band 38) (Band 41)                                                                         |                    |        |
| 3.7           | §2.1055<br>§22.355<br>§24.235<br>§27.54                                               | Frequency Stability<br>Temperature & Voltage                                                                                     | Pass               | -      |



| Report Clause | Ref Std. Clause                                                                                  | Test Items                                                                                                                              | Result (PASS/FAIL) | Remark                                     |
|---------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------------------|
| 4.2           | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (f)<br>§27.53 (g)<br>§27.53 (h) | Radiated Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 17)<br>(Band 25) (Band 26) (Band 66)<br>(Band 71) | Pass               | Under limit<br>16.10 dB at<br>1568.000 MHz |
|               | §2.1051<br>§27.53 (m)(4)                                                                         | Radiated Spurious Emission<br>(Band 7) (Band 38) (Band 41)                                                                              |                    |                                            |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang****Report Producer: Amy Chen**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

WCDMA/LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax and GNSS.

| Product Specification subjective to this standard |                                                                                                                                              |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna Type                                      | WWAN: Fixed Internal Antenna<br>WLAN:<br><Ant. 1>: Fixed Internal Antenna<br><Ant. 2>: Fixed Internal Antenna<br>GPS: Fixed Internal Antenna |

## 1.2 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.3 Testing Location

|                    |                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                   |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |
| Test Site No.      | <b>Sporton Site No.</b><br>TH05-HY                                                                                    |
| Test Engineer      | Benjamin Lin                                                                                                          |
| Temperature        | 21.5~23.6°C                                                                                                           |
| Relative Humidity  | 45.7~46.9%                                                                                                            |

|                    |                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory                                                                       |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |
| Test Site No.      | <b>Sporton Site No.</b><br>03CH12-HY                                                                                                      |
| Test Engineer      | Jack Cheng, Lance Chiang, amd Chuan Chu                                                                                                   |
| Temperature        | 23.8~25.6°C                                                                                                                               |
| Relative Humidity  | 56~68%                                                                                                                                    |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007



## 1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane for LTE Band 13 / 26-H ; Y Plane for LTE Band 7 / 25 / 66 / 71; and Z Plane for LTE Band 12 / 38 / 41\_HPUE) were recorded in this report.

| Test Items        | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|-------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                   |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power | 2    | v               | v | v | v  | v  | v  | v          | v     |       | v      | v    | v    | v    | v            | v | v |
|                   | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                   | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |



| Test Items             | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|------------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                        |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Peak-to-Average Ratio  | 2    |                 |   |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 4    |                 |   |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 5    |                 |   |   | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 7    | -               | - |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 12   |                 |   |   | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 13   | -               | - |   | v  | -  | -  | v          | v     | v     | v      | v    |      | v    |              | v |   |
|                        | 17   | -               | - |   | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 25   |                 |   |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 26   |                 |   |   |    | v  | -  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 38   | -               | - |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 41   | -               | - |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 66   |                 |   |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                        | 71   |                 |   |   |    |    | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
| 26dB and 99% Bandwidth | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      |      |      | v    |              | v |   |
|                        | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |
|                        | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      |      |      | v    | v            | v | v |



| Test Items                  | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                             |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Conducted Band Edge         | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
|                             | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            |   | v |
| Conducted Spurious Emission | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                             | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |

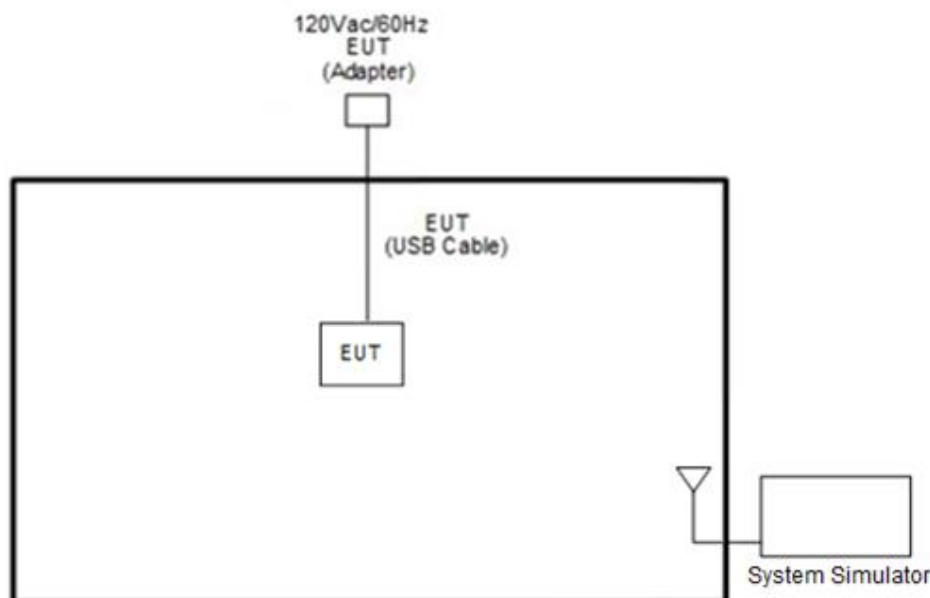


| Test Items          | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|---------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                     |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Frequency Stability | 2    |                 |   |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 4    |                 |   |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 5    |                 |   |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                     | 7    | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 12   |                 |   |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                     | 13   | -               | - |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                     | 17   | -               | - |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                     | 25   |                 |   |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 26   |                 |   |   | v  |    | -  | v          |       |       |        |      |      | v    |              | v |   |
|                     | 38   | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 41   | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 66   |                 |   |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                     | 71   | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
| E.R.P /<br>E.I.R.P  | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    | v    |      | v            | v | v |
|                     | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      | v    | v            | v | v |
|                     | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v      | v    | v    |      | v            | v | v |
|                     | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |
|                     | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    |      | v            | v | v |
|                     | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v      | v    | v    |      | v            | v | v |
|                     | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    |      |      | v            | v | v |



| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz)    |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.4                | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Radiated Spurious Emission | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 25 |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 66 |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 26 |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |
|                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Covered by Band 12 |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |
|                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                            | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Worst Case         |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
| Remark                     | 1. The mark “v ” means that this configuration is chosen for testing<br>2. The mark “-“ means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>4. All the radiated test cases were performed with Battery 2<br>5. Wider operating range bandwidth covers narrower one when the power is higher or the same. |                    |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Brand Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | 8820C     | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | System Simulator | R&S        | CMU 200   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



## 2.5 Frequency List of Low/Middle/High Channels

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 4 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20050  | 20175  | 20300   |
|                                       | Frequency              | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                | 20025  | 20175  | 20325   |
|                                       | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                | 20000  | 20175  | 20350   |
|                                       | Frequency              | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                | 19975  | 20175  | 20375   |
|                                       | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                | 19965  | 20175  | 20385   |
|                                       | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                | 19957  | 20175  | 20393   |
|                                       | Frequency              | 1710.7 | 1732.5 | 1754.3  |



| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 7 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20850  | 21100  | 21350   |
|                                       | Frequency              | 2510   | 2535   | 2560    |
| 15                                    | Channel                | 20825  | 21100  | 21375   |
|                                       | Frequency              | 2507.5 | 2535   | 2562.5  |
| 10                                    | Channel                | 20800  | 21100  | 21400   |
|                                       | Frequency              | 2505   | 2535   | 2565    |
| 5                                     | Channel                | 20775  | 21100  | 21425   |
|                                       | Frequency              | 2502.5 | 2535   | 2567.5  |

| LTE Band 12 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23060  | 23095  | 23130   |
|                                        | Frequency              | 704    | 707.5  | 711     |
| 5                                      | Channel                | 23035  | 23095  | 23155   |
|                                        | Frequency              | 701.5  | 707.5  | 713.5   |
| 3                                      | Channel                | 23025  | 23095  | 23165   |
|                                        | Frequency              | 700.5  | 707.5  | 714.5   |
| 1.4                                    | Channel                | 23017  | 23095  | 23173   |
|                                        | Frequency              | 699.7  | 707.5  | 715.3   |



| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |

| LTE Band 17 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23780  | 23790  | 23800   |
|                                        | Frequency              | 709    | 710    | 711     |
| 5                                      | Channel                | 23755  | 23790  | 23825   |
|                                        | Frequency              | 706.5  | 710    | 713.5   |

| LTE Band 25 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 26140  | 26340  | 26590   |
|                                        | Frequency              | 1860   | 1880   | 1905    |
| 15                                     | Channel                | 26115  | 26340  | 26615   |
|                                        | Frequency              | 1857.5 | 1880   | 1907.5  |
| 10                                     | Channel                | 26090  | 26340  | 26640   |
|                                        | Frequency              | 1855   | 1880   | 1910    |
| 5                                      | Channel                | 26065  | 26340  | 26665   |
|                                        | Frequency              | 1852.5 | 1880   | 1912.5  |
| 3                                      | Channel                | 26055  | 26340  | 26675   |
|                                        | Frequency              | 1851.5 | 1880   | 1913.5  |
| 1.4                                    | Channel                | 26047  | 26340  | 26683   |
|                                        | Frequency              | 1850.7 | 1880   | 1914.3  |



| LTE Band 26 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                     | Channel                | 26865  | 26915  | 26965   |
|                                        | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                     | Channel                | 26840  | 26915  | 26990   |
|                                        | Frequency              | 829.0  | 836.5  | 844.0   |
| 5                                      | Channel                | 26815  | 26915  | 27015   |
|                                        | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                      | Channel                | 26805  | 26915  | 27025   |
|                                        | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                    | Channel                | 26797  | 26915  | 27033   |
|                                        | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 38 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 37850  | 38000  | 38150   |
|                                        | Frequency              | 2580.0 | 2595.0 | 2610.0  |
| 15                                     | Channel                | 37825  | 38000  | 38175   |
|                                        | Frequency              | 2577.5 | 2595.0 | 2612.5  |
| 10                                     | Channel                | 37800  | 38000  | 38200   |
|                                        | Frequency              | 2575.0 | 2595.0 | 2615.0  |
| 5                                      | Channel                | 37775  | 38000  | 38225   |
|                                        | Frequency              | 2572.5 | 2595.0 | 2617.5  |

| LTE Band 41 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 39750  | 40620  | 41490   |
|                                        | Frequency              | 2506.0 | 2593.0 | 2680.0  |
| 15                                     | Channel                | 39725  | 40620  | 41515   |
|                                        | Frequency              | 2503.5 | 2593.0 | 2682.5  |
| 10                                     | Channel                | 39700  | 40620  | 41540   |
|                                        | Frequency              | 2501.0 | 2593.0 | 2685.0  |
| 5                                      | Channel                | 39675  | 40620  | 41565   |
|                                        | Frequency              | 2498.5 | 2593.0 | 2687.5  |



| LTE Band 66 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 132072 | 132322 | 132572  |
|                                        | Frequency              | 1720   | 1745   | 1770    |
| 15                                     | Channel                | 132047 | 132322 | 132597  |
|                                        | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                     | Channel                | 132022 | 132322 | 132622  |
|                                        | Frequency              | 1715   | 1745   | 1775    |
| 5                                      | Channel                | 131997 | 132322 | 132647  |
|                                        | Frequency              | 1712.5 | 1745   | 1777.5  |
| 3                                      | Channel                | 131987 | 132322 | 132657  |
|                                        | Frequency              | 1711.5 | 1745   | 1778.5  |
| 1.4                                    | Channel                | 131979 | 132322 | 132665  |
|                                        | Frequency              | 1710.7 | 1745   | 1779.3  |

| LTE Band 71 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 133222 | 133297 | 133372  |
|                                        | Frequency              | 673.0  | 680.5  | 688.0   |
| 15                                     | Channel                | 133197 | 133297 | 133397  |
|                                        | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                     | Channel                | 133172 | 133297 | 133422  |
|                                        | Frequency              | 668.0  | 680.5  | 693.0   |
| 5                                      | Channel                | 133147 | 133297 | 133447  |
|                                        | Frequency              | 665.5  | 680.5  | 695.5   |

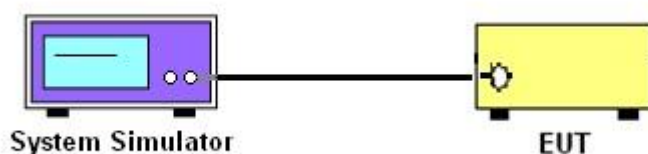
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

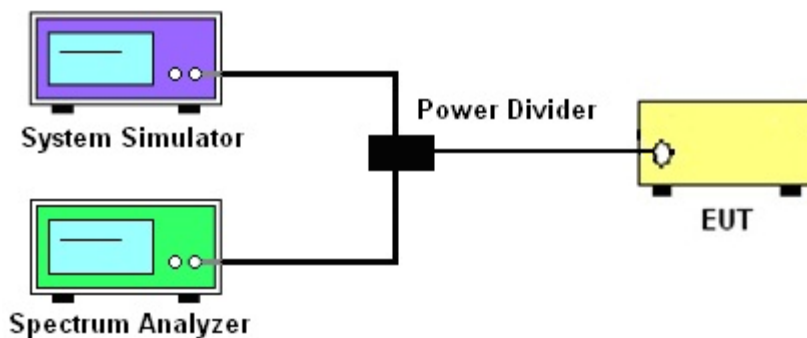
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

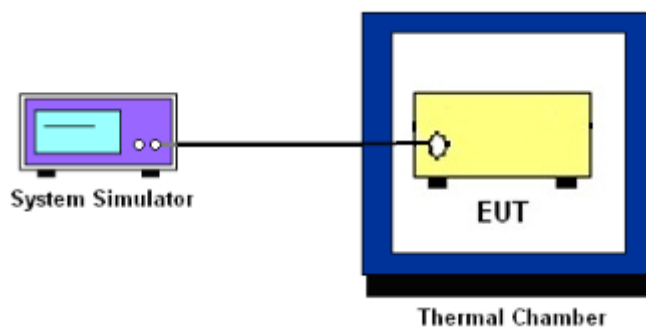
##### 3.1.2 Conducted Output Power



##### 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.1.4 Frequency Stability



##### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 13 and Band 17 and Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



### **3.3 Peak-to-Average Ratio**

#### **3.3.1 Description of the PAR Measurement**

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

#### **3.3.2 Test Procedures**

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



## **3.4 Occupied Bandwidth**

### **3.4.1 Description of Occupied Bandwidth Measurement**

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

### **3.4.2 Test Procedures**

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



## **3.5 Conducted Band Edge**

### **3.5.1 Description of Conducted Band Edge Measurement**

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $65 + 10 \log_{10} p(\text{watts})$ , dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

**27.53(m)(4)**

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

**3.5.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The other 40 dB, and 55 dB have additionally applied same calculation above.

## 3.6 Conducted Spurious Emission

### 3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

### 3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.  
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)



### **3.7 Frequency Stability**

#### **3.7.1 Description of Frequency Stability Measurement**

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

#### **3.7.2 Test Procedures for Temperature Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### **3.7.3 Test Procedures for Voltage Variation**

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at  $20 \pm 5^{\circ}\text{C}$  and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

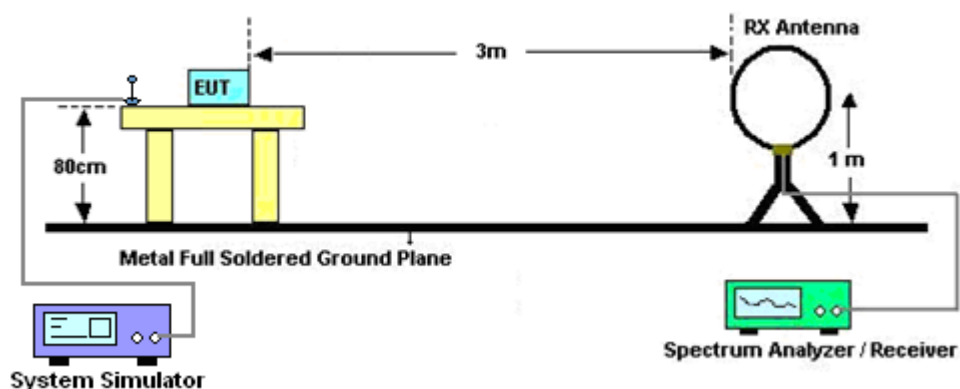
## 4 Radiated Test Items

### 4.1 Measuring Instruments

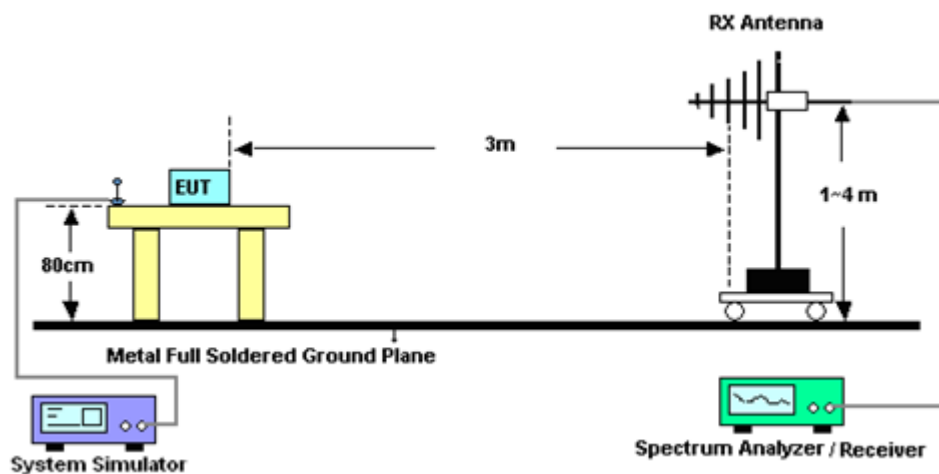
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

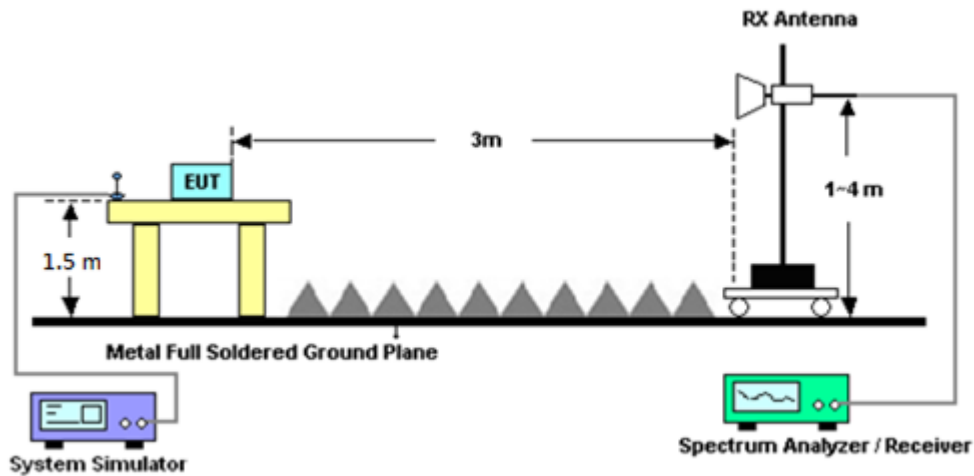
For radiated emissions below 30MHz



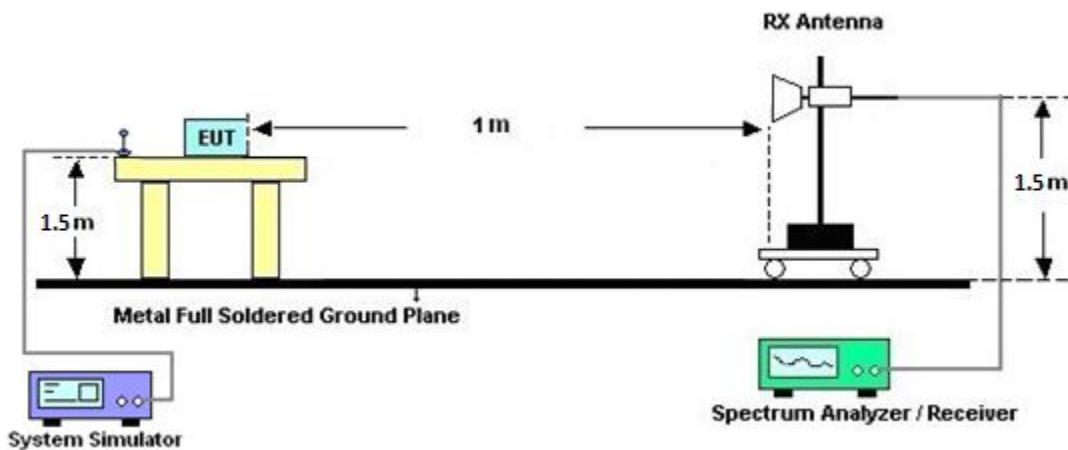
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



#### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

##### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## **4.2 Radiated Spurious Emission Measurement**

### **4.2.1 Description of Radiated Spurious Emission Measurement**

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $55 + 10 \log (P)$  dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.2.2 Test Procedures**

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For LTE Band 7, 38, 41

The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



## 5 List of Measuring Equipment

| Instrument              | Brand Name        | Model No.                         | Serial No.           | Characteristics                  | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-------------------------|-------------------|-----------------------------------|----------------------|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna            | Rohde & Schwarz   | HFH2-Z2                           | 100315               | 9 kHz~30 MHz                     | Dec. 26, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Dec. 25, 2020 | Radiation<br>(03CH12-HY) |
| Bilog Antenna           | TESEQ             | CBL 6111D &<br>00800N1D01N<br>-06 | 37059 & 01           | 30MHz~1GHz                       | Oct. 12, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Oct. 11, 2020 | Radiation<br>(03CH12-HY) |
| Horn Antenna            | SCHWARZBE<br>CK   | BBHA 9120 D                       | 9120D-1328           | 1GHz~18GHz                       | Nov. 14, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Nov. 13, 2020 | Radiation<br>(03CH12-HY) |
| Horn Antenna            | SCHWARZBE<br>CK   | BBHA 9120D                        | 9120D-1522           | 1GHz ~ 18GHz                     | Sep. 19, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Sep. 18, 2020 | Radiation<br>(03CH12-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK   | BBHA 9170                         | BBHA917058<br>4      | 18GHz~40GHz                      | Dec. 10, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Dec. 09, 2020 | Radiation<br>(03CH12-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK   | BBHA 9170                         | BBHA917098<br>0      | 18GHz ~ 40GHz                    | Jan. 10, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Jan. 09, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | COM-POWER         | PA-103                            | 161075               | 10MHz~1GHz                       | Mar. 25, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Mar. 24, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | Keysight          | 83017A                            | MY57280120           | 1GHz~26.5GHz                     | Jul. 20, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Jul. 19, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | Jet-Power         | JPA0118-55-3<br>03K               | 1710001800<br>054002 | 1GHz~18GHz                       | Feb. 07, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Feb. 06, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | EMEC              | EM18G40G                          | 060715               | 18GHz~40GHz                      | Dec. 13, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Dec. 12, 2020 | Radiation<br>(03CH12-HY) |
| Spectrum<br>Analyzer    | Agilent           | N9010A                            | MY54200485           | 10Hz~44GHz                       | Feb. 10, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Feb. 09, 2021 | Radiation<br>(03CH12-HY) |
| Signal<br>Generator     | Anritsu           | MG3694C                           | 163401               | 0.1Hz~40GHz                      | Feb. 15, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Feb. 14, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>104                   | MY9837/4PE           | 9kHz~30MHz                       | Mar. 12, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Mar. 11, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>126E                  | 0058/126E            | 30MHz~18GHz                      | Dec. 12, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Dec. 11, 2020 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>102                   | 505134/2             | 30MHz~40GHz                      | Feb. 25, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>102                   | 800740/2             | 30MHz~40GHz                      | Feb. 25, 2020    | Aug. 14, 2020~<br>Sep. 02, 2020 | Feb. 24, 2021 | Radiation<br>(03CH12-HY) |
| Hygrometer              | TECPEL            | DTM-303B                          | TP140349             | N/A                              | Oct. 25, 2019    | Aug. 14, 2020~<br>Sep. 02, 2020 | Oct. 24, 2020 | Radiation<br>(03CH12-HY) |
| Controller              | EMEC              | EM1000                            | N/A                  | Control Turn<br>table & Ant Mast | N/A              | Aug. 14, 2020~<br>Sep. 02, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Antenna Mast            | EMEC              | AM-BS-4500-B                      | N/A                  | 1m~4m                            | N/A              | Aug. 14, 2020~<br>Sep. 02, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Turn Table              | EMEC              | TT2000                            | N/A                  | 0~360 Degree                     | N/A              | Aug. 14, 2020~<br>Sep. 02, 2020 | N/A           | Radiation<br>(03CH12-HY) |
| Software                | Audix             | E3<br>6.2009-8-24                 | RK-000989            | N/A                              | N/A              | Aug. 14, 2020~<br>Sep. 02, 2020 | N/A           | Radiation<br>(03CH12-HY) |



| Instrument                | Brand Name      | Model No.                        | Serial No. | Characteristics                                                    | Calibration Date | Test Date                    | Due Date      | Remark              |
|---------------------------|-----------------|----------------------------------|------------|--------------------------------------------------------------------|------------------|------------------------------|---------------|---------------------|
| Base Station (Measure)    | Anritsu         | MT8821C                          | 6262025280 | GSM / GPRS / WCDMA / LTE FDD/TDD with 44) / LTE-3CC DLCA, 2CC ULCA | Oct. 25, 2019    | Aug. 01, 2020~ Sep. 02, 2020 | Oct. 24, 2020 | Conducted (TH05-HY) |
| Spectrum Analyzer         | Rohde & Schwarz | FSV40                            | 101908     | 10Hz~40GHz                                                         | May 13, 2020     | Aug. 01, 2020~ Sep. 02, 2020 | May 12, 2021  | Conducted (TH05-HY) |
| Thermal Chamber           | ESPEC           | SU-241                           | 92003713   | -40℃~90℃                                                           | May 15, 2020     | Aug. 01, 2020~ Sep. 02, 2020 | May 14, 2021  | Conducted (TH05-HY) |
| Programmable Power Supply | GW Instek       | PSS-2005                         | EL890094   | 1V~20V 0.5A~5A                                                     | Oct. 09, 2019    | Aug. 01, 2020~ Sep. 02, 2020 | Oct. 08, 2020 | Conducted (TH05-HY) |
| Coupler                   | Warison         | 20dB 25W SMA Directional Coupler | #A         | 1-18GHz                                                            | Jan. 13, 2020    | Aug. 01, 2020~ Sep. 02, 2020 | Jan. 12, 2021 | Conducted (TH05-HY) |



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.07 |
|-------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.21 |
|-------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

|                                                                         |      |
|-------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.80 |
|-------------------------------------------------------------------------|------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |         |              |        |         |
|----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                     | 1       | 0         | QPSK    | <b>23.44</b> | 23.28  | 23.22   |
| 20                                     | 1       | 49        |         | 23.37        | 23.29  | 23.23   |
| 20                                     | 1       | 99        |         | 23.35        | 23.26  | 23.21   |
| 20                                     | 50      | 0         |         | 22.54        | 22.30  | 22.28   |
| 20                                     | 50      | 24        |         | 22.57        | 22.33  | 22.26   |
| 20                                     | 50      | 50        |         | 22.52        | 22.41  | 22.34   |
| 20                                     | 100     | 0         |         | 22.58        | 22.34  | 22.23   |
| 20                                     | 1       | 0         | 16-QAM  | 22.74        | 22.60  | 22.50   |
| 20                                     | 1       | 49        |         | 22.70        | 22.60  | 22.52   |
| 20                                     | 1       | 99        |         | 22.72        | 22.58  | 22.42   |
| 20                                     | 50      | 0         |         | 21.49        | 21.22  | 21.32   |
| 20                                     | 50      | 24        |         | 21.60        | 21.31  | 21.25   |
| 20                                     | 50      | 50        |         | 21.52        | 21.45  | 21.33   |
| 20                                     | 100     | 0         |         | 21.53        | 21.30  | 21.27   |
| 20                                     | 1       | 0         | 64-QAM  | 21.56        | 21.41  | 21.42   |
| 20                                     | 1       | 49        |         | 21.56        | 21.55  | 21.43   |
| 20                                     | 1       | 99        |         | 21.62        | 21.55  | 21.42   |
| 20                                     | 50      | 0         |         | 20.55        | 20.33  | 20.33   |
| 20                                     | 50      | 24        |         | 20.62        | 20.37  | 20.29   |
| 20                                     | 50      | 50        |         | 20.52        | 20.43  | 20.39   |
| 20                                     | 100     | 0         |         | 20.50        | 20.37  | 20.34   |
| 20                                     | 1       | 0         | 256-QAM | 18.72        | 18.44  | 18.45   |
| 20                                     | 1       | 49        |         | 18.52        | 18.59  | 18.45   |
| 20                                     | 1       | 99        |         | 18.80        | 18.73  | 18.56   |
| 20                                     | 50      | 0         |         | 18.59        | 18.37  | 18.36   |
| 20                                     | 50      | 24        |         | 18.64        | 18.37  | 18.34   |
| 20                                     | 50      | 50        |         | 18.61        | 18.51  | 18.41   |
| 20                                     | 100     | 0         |         | 18.65        | 18.42  | 18.33   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK    | 23.39  | 23.28  | 23.13   |
| 15                                     | 1       | 37        |         | 23.28  | 23.21  | 23.16   |
| 15                                     | 1       | 74        |         | 23.30  | 23.26  | 23.15   |
| 15                                     | 36      | 0         |         | 22.53  | 22.21  | 22.26   |
| 15                                     | 36      | 20        |         | 22.57  | 22.31  | 22.16   |
| 15                                     | 36      | 39        |         | 22.51  | 22.34  | 22.30   |
| 15                                     | 75      | 0         |         | 22.53  | 22.29  | 22.13   |
| 15                                     | 1       | 0         | 16-QAM  | 22.65  | 22.60  | 22.47   |
| 15                                     | 1       | 37        |         | 22.66  | 22.50  | 22.49   |
| 15                                     | 1       | 74        |         | 22.62  | 22.50  | 22.37   |
| 15                                     | 36      | 0         |         | 21.45  | 21.14  | 21.32   |
| 15                                     | 36      | 20        |         | 21.58  | 21.25  | 21.16   |
| 15                                     | 36      | 39        |         | 21.47  | 21.43  | 21.27   |
| 15                                     | 75      | 0         |         | 21.51  | 21.29  | 21.17   |
| 15                                     | 1       | 0         | 64-QAM  | 21.49  | 21.31  | 21.35   |
| 15                                     | 1       | 37        |         | 21.52  | 21.52  | 21.39   |
| 15                                     | 1       | 74        |         | 21.53  | 21.48  | 21.33   |
| 15                                     | 36      | 0         |         | 20.48  | 20.33  | 20.33   |
| 15                                     | 36      | 20        |         | 20.55  | 20.33  | 20.19   |
| 15                                     | 36      | 39        |         | 20.43  | 20.35  | 20.32   |
| 15                                     | 75      | 0         |         | 20.41  | 20.34  | 20.24   |
| 15                                     | 1       | 0         | 265-QAM | 18.68  | 18.36  | 18.39   |
| 15                                     | 1       | 37        |         | 18.45  | 18.49  | 18.45   |
| 15                                     | 1       | 74        |         | 18.79  | 18.66  | 18.56   |
| 15                                     | 36      | 0         |         | 18.55  | 18.35  | 18.27   |
| 15                                     | 36      | 20        |         | 18.64  | 18.31  | 18.25   |
| 15                                     | 36      | 39        |         | 18.56  | 18.44  | 18.41   |
| 15                                     | 75      | 0         |         | 18.64  | 18.37  | 18.23   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK    | 23.38  | 23.27  | 23.22   |
| 10                                     | 1       | 25        |         | 23.29  | 23.27  | 23.15   |
| 10                                     | 1       | 49        |         | 23.32  | 23.25  | 23.19   |
| 10                                     | 25      | 0         |         | 22.44  | 22.20  | 22.22   |
| 10                                     | 25      | 12        |         | 22.49  | 22.24  | 22.22   |
| 10                                     | 25      | 25        |         | 22.47  | 22.33  | 22.31   |
| 10                                     | 50      | 0         |         | 22.50  | 22.25  | 22.16   |
| 10                                     | 1       | 0         | 16-QAM  | 22.73  | 22.58  | 22.41   |
| 10                                     | 1       | 25        |         | 22.66  | 22.53  | 22.47   |
| 10                                     | 1       | 49        |         | 22.71  | 22.48  | 22.37   |
| 10                                     | 25      | 0         |         | 21.46  | 21.16  | 21.30   |
| 10                                     | 25      | 12        |         | 21.53  | 21.26  | 21.21   |
| 10                                     | 25      | 25        |         | 21.44  | 21.41  | 21.29   |
| 10                                     | 50      | 0         |         | 21.50  | 21.26  | 21.23   |
| 10                                     | 1       | 0         | 64-QAM  | 21.54  | 21.36  | 21.37   |
| 10                                     | 1       | 25        |         | 21.56  | 21.51  | 21.42   |
| 10                                     | 1       | 49        |         | 21.57  | 21.48  | 21.38   |
| 10                                     | 25      | 0         |         | 20.45  | 20.27  | 20.26   |
| 10                                     | 25      | 12        |         | 20.55  | 20.27  | 20.28   |
| 10                                     | 25      | 25        |         | 20.46  | 20.33  | 20.30   |
| 10                                     | 50      | 0         |         | 20.43  | 20.27  | 20.24   |
| 10                                     | 1       | 0         | 256-QAM | 18.63  | 18.35  | 18.43   |
| 10                                     | 1       | 25        |         | 18.52  | 18.53  | 18.41   |
| 10                                     | 1       | 49        |         | 18.74  | 18.69  | 18.54   |
| 10                                     | 25      | 0         |         | 18.52  | 18.37  | 18.35   |
| 10                                     | 25      | 12        |         | 18.64  | 18.28  | 18.30   |
| 10                                     | 25      | 25        |         | 18.52  | 18.50  | 18.32   |
| 10                                     | 50      | 0         |         | 18.60  | 18.35  | 18.24   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK    | 23.31  | 23.24  | 23.17   |
| 5                                      | 1       | 12        |         | 23.34  | 23.28  | 23.17   |
| 5                                      | 1       | 24        |         | 23.29  | 23.21  | 23.19   |
| 5                                      | 12      | 0         |         | 22.46  | 22.25  | 22.20   |
| 5                                      | 12      | 7         |         | 22.48  | 22.24  | 22.26   |
| 5                                      | 12      | 13        |         | 22.46  | 22.39  | 22.30   |
| 5                                      | 25      | 0         |         | 22.49  | 22.34  | 22.14   |
| 5                                      | 1       | 0         | 16-QAM  | 22.74  | 22.53  | 22.48   |
| 5                                      | 1       | 12        |         | 22.62  | 22.55  | 22.42   |
| 5                                      | 1       | 24        |         | 22.68  | 22.58  | 22.38   |
| 5                                      | 12      | 0         |         | 21.46  | 21.16  | 21.32   |
| 5                                      | 12      | 7         |         | 21.55  | 21.22  | 21.19   |
| 5                                      | 12      | 13        |         | 21.42  | 21.45  | 21.28   |
| 5                                      | 25      | 0         |         | 21.50  | 21.26  | 21.26   |
| 5                                      | 1       | 0         | 64-QAM  | 21.53  | 21.35  | 21.40   |
| 5                                      | 1       | 12        |         | 21.55  | 21.47  | 21.39   |
| 5                                      | 1       | 24        |         | 21.53  | 21.47  | 21.37   |
| 5                                      | 12      | 0         |         | 20.51  | 20.27  | 20.26   |
| 5                                      | 12      | 7         |         | 20.62  | 20.34  | 20.19   |
| 5                                      | 12      | 13        |         | 20.49  | 20.43  | 20.37   |
| 5                                      | 25      | 0         |         | 20.43  | 20.32  | 20.25   |
| 5                                      | 1       | 0         | 256-QAM | 18.65  | 18.41  | 18.39   |
| 5                                      | 1       | 12        |         | 18.47  | 18.58  | 18.39   |
| 5                                      | 1       | 24        |         | 18.70  | 18.68  | 18.54   |
| 5                                      | 12      | 0         |         | 18.56  | 18.27  | 18.27   |
| 5                                      | 12      | 7         |         | 18.62  | 18.35  | 18.31   |
| 5                                      | 12      | 13        |         | 18.60  | 18.50  | 18.34   |
| 5                                      | 25      | 0         |         | 18.65  | 18.40  | 18.29   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK    | 23.39  | 23.28  | 23.14   |
| 3                                      | 1       | 8         |         | 23.35  | 23.26  | 23.21   |
| 3                                      | 1       | 14        |         | 23.26  | 23.20  | 23.19   |
| 3                                      | 8       | 0         |         | 22.44  | 22.20  | 22.20   |
| 3                                      | 8       | 4         |         | 22.53  | 22.23  | 22.26   |
| 3                                      | 8       | 7         |         | 22.44  | 22.37  | 22.26   |
| 3                                      | 15      | 0         |         | 22.55  | 22.27  | 22.13   |
| 3                                      | 1       | 0         | 16-QAM  | 22.64  | 22.50  | 22.41   |
| 3                                      | 1       | 8         |         | 22.60  | 22.57  | 22.50   |
| 3                                      | 1       | 14        |         | 22.65  | 22.52  | 22.34   |
| 3                                      | 8       | 0         |         | 21.41  | 21.20  | 21.27   |
| 3                                      | 8       | 4         |         | 21.55  | 21.24  | 21.18   |
| 3                                      | 8       | 7         |         | 21.44  | 21.37  | 21.33   |
| 3                                      | 15      | 0         |         | 21.45  | 21.25  | 21.22   |
| 3                                      | 1       | 0         | 64-QAM  | 21.52  | 21.34  | 21.35   |
| 3                                      | 1       | 8         |         | 21.53  | 21.45  | 21.34   |
| 3                                      | 1       | 14        |         | 21.53  | 21.45  | 21.41   |
| 3                                      | 8       | 0         |         | 20.51  | 20.25  | 20.31   |
| 3                                      | 8       | 4         |         | 20.56  | 20.30  | 20.22   |
| 3                                      | 8       | 7         |         | 20.46  | 20.34  | 20.33   |
| 3                                      | 15      | 0         |         | 20.50  | 20.35  | 20.32   |
| 3                                      | 1       | 0         | 256-QAM | 18.66  | 18.43  | 18.41   |
| 3                                      | 1       | 8         |         | 18.48  | 18.49  | 18.42   |
| 3                                      | 1       | 14        |         | 18.78  | 18.68  | 18.51   |
| 3                                      | 8       | 0         |         | 18.55  | 18.30  | 18.28   |
| 3                                      | 8       | 4         |         | 18.63  | 18.36  | 18.34   |
| 3                                      | 8       | 7         |         | 18.54  | 18.42  | 18.34   |
| 3                                      | 15      | 0         |         | 18.55  | 18.32  | 18.30   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK    | 23.41  | 23.21  | 23.14   |
| 1.4                                    | 1       | 3         |         | 23.42  | 23.28  | 23.13   |
| 1.4                                    | 1       | 5         |         | 23.40  | 23.20  | 23.16   |
| 1.4                                    | 3       | 0         |         | 23.42  | 23.26  | 23.20   |
| 1.4                                    | 3       | 1         |         | 23.43  | 23.28  | 23.19   |
| 1.4                                    | 3       | 3         |         | 23.42  | 23.26  | 23.17   |
| 1.4                                    | 6       | 0         |         | 22.50  | 22.32  | 22.20   |
| 1.4                                    | 1       | 0         | 16-QAM  | 22.69  | 22.50  | 22.54   |
| 1.4                                    | 1       | 3         |         | 22.75  | 22.54  | 22.47   |
| 1.4                                    | 1       | 5         |         | 22.73  | 22.58  | 22.47   |
| 1.4                                    | 3       | 0         |         | 22.52  | 22.32  | 22.23   |
| 1.4                                    | 3       | 1         |         | 22.57  | 22.34  | 22.24   |
| 1.4                                    | 3       | 3         |         | 22.55  | 22.34  | 22.28   |
| 1.4                                    | 6       | 0         |         | 21.55  | 21.38  | 21.29   |
| 1.4                                    | 1       | 0         | 64-QAM  | 21.64  | 21.58  | 21.39   |
| 1.4                                    | 1       | 3         |         | 21.76  | 21.53  | 21.41   |
| 1.4                                    | 1       | 5         |         | 21.67  | 21.51  | 21.44   |
| 1.4                                    | 3       | 0         |         | 21.61  | 21.40  | 21.32   |
| 1.4                                    | 3       | 1         |         | 21.63  | 21.42  | 21.35   |
| 1.4                                    | 3       | 3         |         | 21.61  | 21.40  | 21.32   |
| 1.4                                    | 6       | 0         |         | 20.54  | 20.32  | 20.20   |
| 1.4                                    | 1       | 0         | 256-QAM | 18.71  | 18.42  | 18.38   |
| 1.4                                    | 1       | 3         |         | 18.46  | 18.53  | 18.40   |
| 1.4                                    | 1       | 5         |         | 18.80  | 18.73  | 18.50   |
| 1.4                                    | 3       | 0         |         | 18.50  | 18.27  | 18.33   |
| 1.4                                    | 3       | 1         |         | 18.63  | 18.37  | 18.31   |
| 1.4                                    | 3       | 3         |         | 18.53  | 18.50  | 18.35   |
| 1.4                                    | 6       | 0         |         | 18.62  | 18.32  | 18.32   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |              |        |         |
|-----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                      | 1       | 0         | QPSK    | <b>23.40</b> | 23.35  | 23.37   |
| 20                                      | 1       | 49        |         | 23.37        | 23.30  | 23.26   |
| 20                                      | 1       | 99        |         | 23.32        | 23.29  | 23.31   |
| 20                                      | 50      | 0         |         | 22.56        | 22.48  | 22.40   |
| 20                                      | 50      | 24        |         | 22.57        | 22.47  | 22.43   |
| 20                                      | 50      | 50        |         | 22.50        | 22.45  | 22.47   |
| 20                                      | 100     | 0         |         | 22.53        | 22.45  | 22.41   |
| 20                                      | 1       | 0         | 16-QAM  | 22.79        | 22.71  | 22.66   |
| 20                                      | 1       | 49        |         | 22.73        | 22.62  | 22.67   |
| 20                                      | 1       | 99        |         | 22.69        | 22.66  | 22.69   |
| 20                                      | 50      | 0         |         | 21.57        | 21.49  | 21.42   |
| 20                                      | 50      | 24        |         | 21.55        | 21.48  | 21.42   |
| 20                                      | 50      | 50        |         | 21.50        | 21.45  | 21.49   |
| 20                                      | 100     | 0         |         | 21.54        | 21.43  | 21.43   |
| 20                                      | 1       | 0         | 64-QAM  | 21.65        | 21.50  | 21.53   |
| 20                                      | 1       | 49        |         | 21.58        | 21.57  | 21.55   |
| 20                                      | 1       | 99        |         | 21.59        | 21.53  | 21.58   |
| 20                                      | 50      | 0         |         | 20.57        | 20.49  | 20.46   |
| 20                                      | 50      | 24        |         | 20.58        | 20.48  | 20.46   |
| 20                                      | 50      | 50        |         | 20.53        | 20.45  | 20.48   |
| 20                                      | 100     | 0         |         | 20.56        | 20.47  | 20.42   |
| 20                                      | 1       | 0         | 256-QAM | 18.86        | 18.65  | 18.69   |
| 20                                      | 1       | 49        |         | 18.66        | 18.57  | 18.56   |
| 20                                      | 1       | 99        |         | 18.69        | 18.65  | 18.54   |
| 20                                      | 50      | 0         |         | 18.68        | 18.53  | 18.49   |
| 20                                      | 50      | 24        |         | 18.67        | 18.52  | 18.48   |
| 20                                      | 50      | 50        |         | 18.58        | 18.47  | 18.53   |
| 20                                      | 100     | 0         |         | 18.63        | 18.51  | 18.44   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.36  | 23.29  | 23.34   |
| 15                                      | 1       | 37        |         | 23.28  | 23.28  | 23.21   |
| 15                                      | 1       | 74        |         | 23.30  | 23.28  | 23.31   |
| 15                                      | 36      | 0         |         | 22.56  | 22.38  | 22.35   |
| 15                                      | 36      | 20        |         | 22.56  | 22.40  | 22.42   |
| 15                                      | 36      | 39        |         | 22.42  | 22.37  | 22.37   |
| 15                                      | 75      | 0         |         | 22.45  | 22.38  | 22.40   |
| 15                                      | 1       | 0         | 16-QAM  | 22.72  | 22.71  | 22.60   |
| 15                                      | 1       | 37        |         | 22.72  | 22.61  | 22.65   |
| 15                                      | 1       | 74        |         | 22.63  | 22.61  | 22.63   |
| 15                                      | 36      | 0         |         | 21.57  | 21.45  | 21.38   |
| 15                                      | 36      | 20        |         | 21.50  | 21.48  | 21.40   |
| 15                                      | 36      | 39        |         | 21.42  | 21.37  | 21.48   |
| 15                                      | 75      | 0         |         | 21.52  | 21.37  | 21.42   |
| 15                                      | 1       | 0         | 64-QAM  | 21.61  | 21.47  | 21.45   |
| 15                                      | 1       | 37        |         | 21.54  | 21.51  | 21.53   |
| 15                                      | 1       | 74        |         | 21.50  | 21.52  | 21.53   |
| 15                                      | 36      | 0         |         | 20.56  | 20.39  | 20.43   |
| 15                                      | 36      | 20        |         | 20.52  | 20.39  | 20.46   |
| 15                                      | 36      | 39        |         | 20.53  | 20.36  | 20.38   |
| 15                                      | 75      | 0         |         | 20.46  | 20.42  | 20.33   |
| 15                                      | 1       | 0         | 256-QAM | 18.82  | 18.64  | 18.69   |
| 15                                      | 1       | 37        |         | 18.64  | 18.49  | 18.54   |
| 15                                      | 1       | 74        |         | 18.60  | 18.61  | 18.48   |
| 15                                      | 36      | 0         |         | 18.66  | 18.46  | 18.47   |
| 15                                      | 36      | 20        |         | 18.65  | 18.49  | 18.41   |
| 15                                      | 36      | 39        |         | 18.49  | 18.47  | 18.53   |
| 15                                      | 75      | 0         |         | 18.56  | 18.42  | 18.34   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.37  | 23.26  | 23.35   |
| 10                                      | 1       | 25        |         | 23.30  | 23.28  | 23.21   |
| 10                                      | 1       | 49        |         | 23.26  | 23.22  | 23.25   |
| 10                                      | 25      | 0         |         | 22.47  | 22.43  | 22.30   |
| 10                                      | 25      | 12        |         | 22.48  | 22.39  | 22.38   |
| 10                                      | 25      | 25        |         | 22.42  | 22.45  | 22.47   |
| 10                                      | 50      | 0         |         | 22.47  | 22.36  | 22.34   |
| 10                                      | 1       | 0         | 16-QAM  | 22.72  | 22.62  | 22.66   |
| 10                                      | 1       | 25        |         | 22.66  | 22.52  | 22.61   |
| 10                                      | 1       | 49        |         | 22.64  | 22.64  | 22.67   |
| 10                                      | 25      | 0         |         | 21.49  | 21.49  | 21.40   |
| 10                                      | 25      | 12        |         | 21.47  | 21.44  | 21.32   |
| 10                                      | 25      | 25        |         | 21.40  | 21.40  | 21.48   |
| 10                                      | 50      | 0         |         | 21.47  | 21.35  | 21.43   |
| 10                                      | 1       | 0         | 64-QAM  | 21.57  | 21.48  | 21.44   |
| 10                                      | 1       | 25        |         | 21.55  | 21.56  | 21.53   |
| 10                                      | 1       | 49        |         | 21.49  | 21.49  | 21.51   |
| 10                                      | 25      | 0         |         | 20.56  | 20.41  | 20.43   |
| 10                                      | 25      | 12        |         | 20.52  | 20.40  | 20.45   |
| 10                                      | 25      | 25        |         | 20.51  | 20.38  | 20.48   |
| 10                                      | 50      | 0         |         | 20.54  | 20.37  | 20.35   |
| 10                                      | 1       | 0         | 256-QAM | 18.84  | 18.61  | 18.59   |
| 10                                      | 1       | 25        |         | 18.66  | 18.50  | 18.51   |
| 10                                      | 1       | 49        |         | 18.61  | 18.61  | 18.54   |
| 10                                      | 25      | 0         |         | 18.63  | 18.50  | 18.40   |
| 10                                      | 25      | 12        |         | 18.65  | 18.45  | 18.46   |
| 10                                      | 25      | 25        |         | 18.55  | 18.39  | 18.52   |
| 10                                      | 50      | 0         |         | 18.62  | 18.45  | 18.40   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.24  | 23.28  | 23.35   |
| 5                                       | 1       | 12        |         | 23.33  | 23.36  | 23.35   |
| 5                                       | 1       | 24        |         | 23.34  | 23.38  | 23.34   |
| 5                                       | 12      | 0         |         | 22.29  | 22.38  | 22.37   |
| 5                                       | 12      | 7         |         | 22.42  | 22.45  | 22.45   |
| 5                                       | 12      | 13        |         | 22.44  | 22.41  | 22.46   |
| 5                                       | 25      | 0         |         | 22.41  | 22.41  | 22.42   |
| 5                                       | 1       | 0         | 16-QAM  | 22.57  | 22.66  | 22.66   |
| 5                                       | 1       | 12        |         | 22.65  | 22.65  | 22.60   |
| 5                                       | 1       | 24        |         | 22.66  | 22.68  | 22.72   |
| 5                                       | 12      | 0         |         | 21.32  | 21.36  | 21.38   |
| 5                                       | 12      | 7         |         | 21.42  | 21.44  | 21.45   |
| 5                                       | 12      | 13        |         | 21.46  | 21.46  | 21.47   |
| 5                                       | 25      | 0         |         | 21.42  | 21.44  | 21.42   |
| 5                                       | 1       | 0         | 64-QAM  | 21.63  | 21.64  | 21.63   |
| 5                                       | 1       | 12        |         | 21.47  | 21.48  | 21.56   |
| 5                                       | 1       | 24        |         | 21.56  | 21.53  | 21.59   |
| 5                                       | 12      | 0         |         | 20.39  | 20.44  | 20.43   |
| 5                                       | 12      | 7         |         | 20.53  | 20.52  | 20.52   |
| 5                                       | 12      | 13        |         | 20.50  | 20.54  | 20.52   |
| 5                                       | 25      | 0         |         | 20.44  | 20.41  | 20.46   |
| 5                                       | 1       | 0         | 256-QAM | 18.78  | 18.65  | 18.69   |
| 5                                       | 1       | 12        |         | 18.62  | 18.52  | 18.55   |
| 5                                       | 1       | 24        |         | 18.63  | 18.65  | 18.53   |
| 5                                       | 12      | 0         |         | 18.59  | 18.52  | 18.46   |
| 5                                       | 12      | 7         |         | 18.67  | 18.44  | 18.48   |
| 5                                       | 12      | 13        |         | 18.50  | 18.46  | 18.51   |
| 5                                       | 25      | 0         |         | 18.55  | 18.48  | 18.36   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK    | 23.34  | 23.33  | 23.35   |
| 3                                       | 1       | 8         |         | 23.28  | 23.25  | 23.26   |
| 3                                       | 1       | 14        |         | 23.25  | 23.26  | 23.23   |
| 3                                       | 8       | 0         |         | 22.48  | 22.38  | 22.31   |
| 3                                       | 8       | 4         |         | 22.53  | 22.42  | 22.40   |
| 3                                       | 8       | 7         |         | 22.48  | 22.41  | 22.39   |
| 3                                       | 15      | 0         |         | 22.43  | 22.39  | 22.31   |
| 3                                       | 1       | 0         | 16-QAM  | 22.72  | 22.67  | 22.60   |
| 3                                       | 1       | 8         |         | 22.69  | 22.60  | 22.65   |
| 3                                       | 1       | 14        |         | 22.63  | 22.60  | 22.59   |
| 3                                       | 8       | 0         |         | 21.57  | 21.48  | 21.41   |
| 3                                       | 8       | 4         |         | 21.54  | 21.40  | 21.41   |
| 3                                       | 8       | 7         |         | 21.46  | 21.40  | 21.42   |
| 3                                       | 15      | 0         |         | 21.44  | 21.42  | 21.36   |
| 3                                       | 1       | 0         | 64-QAM  | 21.58  | 21.50  | 21.49   |
| 3                                       | 1       | 8         |         | 21.54  | 21.47  | 21.51   |
| 3                                       | 1       | 14        |         | 21.49  | 21.44  | 21.53   |
| 3                                       | 8       | 0         |         | 20.47  | 20.42  | 20.42   |
| 3                                       | 8       | 4         |         | 20.51  | 20.45  | 20.38   |
| 3                                       | 8       | 7         |         | 20.52  | 20.43  | 20.46   |
| 3                                       | 15      | 0         |         | 20.49  | 20.38  | 20.37   |
| 3                                       | 1       | 0         | 256-QAM | 18.82  | 18.63  | 18.60   |
| 3                                       | 1       | 8         |         | 18.61  | 18.52  | 18.53   |
| 3                                       | 1       | 14        |         | 18.64  | 18.65  | 18.53   |
| 3                                       | 8       | 0         |         | 18.67  | 18.52  | 18.44   |
| 3                                       | 8       | 4         |         | 18.66  | 18.52  | 18.40   |
| 3                                       | 8       | 7         |         | 18.54  | 18.45  | 18.49   |
| 3                                       | 15      | 0         |         | 18.61  | 18.44  | 18.36   |



| LTE Band 25 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK    | 23.32  | 23.18  | 23.21   |
| 1.4                                     | 1       | 3         |         | 23.39  | 23.29  | 23.33   |
| 1.4                                     | 1       | 5         |         | 23.37  | 23.26  | 23.30   |
| 1.4                                     | 3       | 0         |         | 23.35  | 23.27  | 23.27   |
| 1.4                                     | 3       | 1         |         | 23.39  | 23.29  | 23.28   |
| 1.4                                     | 3       | 3         |         | 23.38  | 23.29  | 23.27   |
| 1.4                                     | 6       | 0         |         | 22.40  | 22.31  | 22.34   |
| 1.4                                     | 1       | 0         | 16-QAM  | 22.64  | 22.53  | 22.54   |
| 1.4                                     | 1       | 3         |         | 22.74  | 22.65  | 22.63   |
| 1.4                                     | 1       | 5         |         | 22.70  | 22.59  | 22.63   |
| 1.4                                     | 3       | 0         |         | 22.45  | 22.35  | 22.36   |
| 1.4                                     | 3       | 1         |         | 22.50  | 22.39  | 22.41   |
| 1.4                                     | 3       | 3         |         | 22.44  | 22.35  | 22.37   |
| 1.4                                     | 6       | 0         |         | 21.50  | 21.40  | 21.44   |
| 1.4                                     | 1       | 0         | 64-QAM  | 21.57  | 21.52  | 21.44   |
| 1.4                                     | 1       | 3         |         | 21.65  | 21.55  | 21.55   |
| 1.4                                     | 1       | 5         |         | 21.65  | 21.47  | 21.48   |
| 1.4                                     | 3       | 0         |         | 21.58  | 21.43  | 21.48   |
| 1.4                                     | 3       | 1         |         | 21.60  | 21.49  | 21.49   |
| 1.4                                     | 3       | 3         |         | 21.58  | 21.51  | 21.49   |
| 1.4                                     | 6       | 0         |         | 20.48  | 20.33  | 20.35   |
| 1.4                                     | 1       | 0         | 256-QAM | 18.83  | 18.57  | 18.68   |
| 1.4                                     | 1       | 3         |         | 18.61  | 18.52  | 18.55   |
| 1.4                                     | 1       | 5         |         | 18.64  | 18.62  | 18.54   |
| 1.4                                     | 3       | 0         |         | 18.67  | 18.51  | 18.41   |
| 1.4                                     | 3       | 1         |         | 18.66  | 18.44  | 18.41   |
| 1.4                                     | 3       | 3         |         | 18.50  | 18.46  | 18.47   |
| 1.4                                     | 6       | 0         |         | 18.58  | 18.42  | 18.39   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |              |        |         |
|----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                     | 1       | 0         | QPSK    | <b>23.84</b> | 23.78  | 23.70   |
| 20                                     | 1       | 49        |         | 23.66        | 23.59  | 23.40   |
| 20                                     | 1       | 99        |         | 23.64        | 23.49  | 23.34   |
| 20                                     | 50      | 0         |         | 22.95        | 22.81  | 22.75   |
| 20                                     | 50      | 24        |         | 22.88        | 22.72  | 22.67   |
| 20                                     | 50      | 50        |         | 22.77        | 22.60  | 22.44   |
| 20                                     | 100     | 0         |         | 22.85        | 22.73  | 22.64   |
| 20                                     | 1       | 0         | 16-QAM  | 23.00        | 22.99  | 22.99   |
| 20                                     | 1       | 49        |         | 22.98        | 22.94  | 22.78   |
| 20                                     | 1       | 99        |         | 22.97        | 22.82  | 22.74   |
| 20                                     | 50      | 0         |         | 21.96        | 21.82  | 21.76   |
| 20                                     | 50      | 24        |         | 21.88        | 21.72  | 21.67   |
| 20                                     | 50      | 50        |         | 21.79        | 21.61  | 21.49   |
| 20                                     | 100     | 0         |         | 21.84        | 21.71  | 21.64   |
| 20                                     | 1       | 0         | 64-QAM  | 21.83        | 21.96  | 21.89   |
| 20                                     | 1       | 49        |         | 21.88        | 21.82  | 21.62   |
| 20                                     | 1       | 99        |         | 21.85        | 21.65  | 21.54   |
| 20                                     | 50      | 0         |         | 20.98        | 20.83  | 20.78   |
| 20                                     | 50      | 24        |         | 20.90        | 20.77  | 20.68   |
| 20                                     | 50      | 50        |         | 20.80        | 20.64  | 20.50   |
| 20                                     | 100     | 0         |         | 20.88        | 20.73  | 20.66   |
| 20                                     | 1       | 0         | 256-QAM | 18.63        | 18.63  | 18.60   |
| 20                                     | 1       | 49        |         | 18.40        | 18.48  | 18.36   |
| 20                                     | 1       | 99        |         | 18.44        | 18.47  | 18.40   |
| 20                                     | 50      | 0         |         | 18.61        | 18.46  | 18.41   |
| 20                                     | 50      | 24        |         | 18.39        | 18.44  | 18.32   |
| 20                                     | 50      | 50        |         | 18.36        | 18.42  | 18.30   |
| 20                                     | 100     | 0         |         | 18.69        | 18.49  | 18.35   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK    | 23.74  | 23.73  | 23.66   |
| 15                                     | 1       | 37        |         | 23.60  | 23.54  | 23.31   |
| 15                                     | 1       | 74        |         | 23.62  | 23.44  | 23.31   |
| 15                                     | 36      | 0         |         | 22.94  | 22.77  | 22.71   |
| 15                                     | 36      | 20        |         | 22.82  | 22.62  | 22.63   |
| 15                                     | 36      | 39        |         | 22.75  | 22.54  | 22.34   |
| 15                                     | 75      | 0         |         | 22.75  | 22.65  | 22.55   |
| 15                                     | 1       | 0         | 16-QAM  | 22.97  | 22.98  | 22.99   |
| 15                                     | 1       | 37        |         | 22.95  | 22.89  | 22.75   |
| 15                                     | 1       | 74        |         | 22.87  | 22.75  | 22.68   |
| 15                                     | 36      | 0         |         | 21.96  | 21.75  | 21.71   |
| 15                                     | 36      | 20        |         | 21.83  | 21.63  | 21.60   |
| 15                                     | 36      | 39        |         | 21.74  | 21.61  | 21.42   |
| 15                                     | 75      | 0         |         | 21.80  | 21.61  | 21.57   |
| 15                                     | 1       | 0         | 64-QAM  | 21.82  | 21.87  | 21.89   |
| 15                                     | 1       | 37        |         | 21.78  | 21.79  | 21.56   |
| 15                                     | 1       | 74        |         | 21.76  | 21.58  | 21.47   |
| 15                                     | 36      | 0         |         | 20.91  | 20.75  | 20.72   |
| 15                                     | 36      | 20        |         | 20.89  | 20.67  | 20.67   |
| 15                                     | 36      | 39        |         | 20.70  | 20.58  | 20.46   |
| 15                                     | 75      | 0         |         | 20.85  | 20.67  | 20.62   |
| 15                                     | 1       | 0         | 256-QAM | 18.53  | 18.58  | 18.54   |
| 15                                     | 1       | 37        |         | 18.40  | 18.41  | 18.27   |
| 15                                     | 1       | 74        |         | 18.44  | 18.41  | 18.38   |
| 15                                     | 36      | 0         |         | 18.57  | 18.46  | 18.41   |
| 15                                     | 36      | 20        |         | 18.30  | 18.41  | 18.30   |
| 15                                     | 36      | 39        |         | 18.28  | 18.32  | 18.30   |
| 15                                     | 75      | 0         |         | 18.63  | 18.49  | 18.31   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK    | 23.78  | 23.73  | 23.68   |
| 10                                     | 1       | 25        |         | 23.58  | 23.50  | 23.36   |
| 10                                     | 1       | 49        |         | 23.63  | 23.44  | 23.28   |
| 10                                     | 25      | 0         |         | 22.94  | 22.78  | 22.67   |
| 10                                     | 25      | 12        |         | 22.82  | 22.65  | 22.60   |
| 10                                     | 25      | 25        |         | 22.77  | 22.52  | 22.40   |
| 10                                     | 50      | 0         |         | 22.83  | 22.69  | 22.63   |
| 10                                     | 1       | 0         | 16-QAM  | 22.90  | 22.93  | 22.95   |
| 10                                     | 1       | 25        |         | 22.89  | 22.88  | 22.72   |
| 10                                     | 1       | 49        |         | 22.97  | 22.77  | 22.68   |
| 10                                     | 25      | 0         |         | 21.87  | 21.77  | 21.68   |
| 10                                     | 25      | 12        |         | 21.80  | 21.67  | 21.58   |
| 10                                     | 25      | 25        |         | 21.74  | 21.61  | 21.42   |
| 10                                     | 50      | 0         |         | 21.79  | 21.61  | 21.57   |
| 10                                     | 1       | 0         | 64-QAM  | 21.75  | 21.92  | 21.82   |
| 10                                     | 1       | 25        |         | 21.87  | 21.72  | 21.56   |
| 10                                     | 1       | 49        |         | 21.83  | 21.56  | 21.53   |
| 10                                     | 25      | 0         |         | 20.90  | 20.81  | 20.69   |
| 10                                     | 25      | 12        |         | 20.84  | 20.69  | 20.61   |
| 10                                     | 25      | 25        |         | 20.76  | 20.63  | 20.43   |
| 10                                     | 50      | 0         |         | 20.86  | 20.73  | 20.57   |
| 10                                     | 1       | 0         | 256-QAM | 18.56  | 18.58  | 18.60   |
| 10                                     | 1       | 25        |         | 18.32  | 18.41  | 18.32   |
| 10                                     | 1       | 49        |         | 18.40  | 18.42  | 18.37   |
| 10                                     | 25      | 0         |         | 18.61  | 18.46  | 18.38   |
| 10                                     | 25      | 12        |         | 18.39  | 18.35  | 18.23   |
| 10                                     | 25      | 25        |         | 18.28  | 18.34  | 18.21   |
| 10                                     | 50      | 0         |         | 18.64  | 18.48  | 18.25   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK    | 23.81  | 23.69  | 23.70   |
| 5                                      | 1       | 12        |         | 23.58  | 23.59  | 23.40   |
| 5                                      | 1       | 24        |         | 23.63  | 23.44  | 23.27   |
| 5                                      | 12      | 0         |         | 22.88  | 22.71  | 22.75   |
| 5                                      | 12      | 7         |         | 22.79  | 22.65  | 22.65   |
| 5                                      | 12      | 13        |         | 22.72  | 22.50  | 22.39   |
| 5                                      | 25      | 0         |         | 22.83  | 22.73  | 22.56   |
| 5                                      | 1       | 0         | 16-QAM  | 22.96  | 22.98  | 22.95   |
| 5                                      | 1       | 12        |         | 22.98  | 22.88  | 22.73   |
| 5                                      | 1       | 24        |         | 22.94  | 22.82  | 22.74   |
| 5                                      | 12      | 0         |         | 21.94  | 21.79  | 21.68   |
| 5                                      | 12      | 7         |         | 21.88  | 21.64  | 21.65   |
| 5                                      | 12      | 13        |         | 21.72  | 21.55  | 21.47   |
| 5                                      | 25      | 0         |         | 21.74  | 21.65  | 21.54   |
| 5                                      | 1       | 0         | 64-QAM  | 21.82  | 21.88  | 21.80   |
| 5                                      | 1       | 12        |         | 21.80  | 21.74  | 21.60   |
| 5                                      | 1       | 24        |         | 21.82  | 21.59  | 21.53   |
| 5                                      | 12      | 0         |         | 20.92  | 20.80  | 20.72   |
| 5                                      | 12      | 7         |         | 20.88  | 20.74  | 20.63   |
| 5                                      | 12      | 13        |         | 20.70  | 20.62  | 20.43   |
| 5                                      | 25      | 0         |         | 20.84  | 20.65  | 20.58   |
| 5                                      | 1       | 0         | 256-QAM | 18.58  | 18.60  | 18.51   |
| 5                                      | 1       | 12        |         | 18.37  | 18.39  | 18.29   |
| 5                                      | 1       | 24        |         | 18.38  | 18.45  | 18.37   |
| 5                                      | 12      | 0         |         | 18.52  | 18.43  | 18.40   |
| 5                                      | 12      | 7         |         | 18.32  | 18.34  | 18.23   |
| 5                                      | 12      | 13        |         | 18.28  | 18.34  | 18.26   |
| 5                                      | 25      | 0         |         | 18.69  | 18.42  | 18.30   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK    | 23.74  | 23.78  | 23.65   |
| 3                                      | 1       | 8         |         | 23.60  | 23.58  | 23.30   |
| 3                                      | 1       | 14        |         | 23.61  | 23.46  | 23.32   |
| 3                                      | 8       | 0         |         | 22.94  | 22.79  | 22.73   |
| 3                                      | 8       | 4         |         | 22.88  | 22.68  | 22.58   |
| 3                                      | 8       | 7         |         | 22.71  | 22.55  | 22.41   |
| 3                                      | 15      | 0         |         | 22.82  | 22.65  | 22.64   |
| 3                                      | 1       | 0         | 16-QAM  | 22.99  | 22.89  | 22.89   |
| 3                                      | 1       | 8         |         | 22.94  | 22.94  | 22.71   |
| 3                                      | 1       | 14        |         | 22.89  | 22.81  | 22.73   |
| 3                                      | 8       | 0         |         | 21.88  | 21.80  | 21.66   |
| 3                                      | 8       | 4         |         | 21.80  | 21.66  | 21.65   |
| 3                                      | 8       | 7         |         | 21.77  | 21.61  | 21.41   |
| 3                                      | 15      | 0         |         | 21.75  | 21.65  | 21.64   |
| 3                                      | 1       | 0         | 64-QAM  | 21.73  | 21.95  | 21.86   |
| 3                                      | 1       | 8         |         | 21.84  | 21.82  | 21.54   |
| 3                                      | 1       | 14        |         | 21.85  | 21.63  | 21.44   |
| 3                                      | 8       | 0         |         | 20.97  | 20.78  | 20.78   |
| 3                                      | 8       | 4         |         | 20.81  | 20.76  | 20.67   |
| 3                                      | 8       | 7         |         | 20.74  | 20.63  | 20.43   |
| 3                                      | 15      | 0         |         | 20.82  | 20.67  | 20.56   |
| 3                                      | 1       | 0         | 256-QAM | 18.55  | 18.58  | 18.50   |
| 3                                      | 1       | 8         |         | 18.35  | 18.47  | 18.31   |
| 3                                      | 1       | 14        |         | 18.38  | 18.39  | 18.40   |
| 3                                      | 8       | 0         |         | 18.54  | 18.38  | 18.36   |
| 3                                      | 8       | 4         |         | 18.39  | 18.43  | 18.31   |
| 3                                      | 8       | 7         |         | 18.26  | 18.42  | 18.21   |
| 3                                      | 15      | 0         |         | 18.65  | 18.39  | 18.35   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK    | 23.77  | 23.69  | 23.66   |
| 1.4                                    | 1       | 3         |         | 23.57  | 23.55  | 23.32   |
| 1.4                                    | 1       | 5         |         | 23.54  | 23.44  | 23.33   |
| 1.4                                    | 3       | 0         |         | 22.87  | 22.80  | 22.70   |
| 1.4                                    | 3       | 1         |         | 22.86  | 22.67  | 22.59   |
| 1.4                                    | 3       | 3         |         | 22.68  | 22.57  | 22.40   |
| 1.4                                    | 6       | 0         |         | 22.83  | 22.72  | 22.56   |
| 1.4                                    | 1       | 0         | 16-QAM  | 22.90  | 22.89  | 22.97   |
| 1.4                                    | 1       | 3         |         | 22.93  | 22.89  | 22.77   |
| 1.4                                    | 1       | 5         |         | 22.92  | 22.73  | 22.71   |
| 1.4                                    | 3       | 0         |         | 21.93  | 21.80  | 21.68   |
| 1.4                                    | 3       | 1         |         | 21.86  | 21.68  | 21.66   |
| 1.4                                    | 3       | 3         |         | 21.75  | 21.54  | 21.44   |
| 1.4                                    | 6       | 0         |         | 21.80  | 21.63  | 21.60   |
| 1.4                                    | 1       | 0         | 64-QAM  | 21.75  | 21.93  | 21.79   |
| 1.4                                    | 1       | 3         |         | 21.78  | 21.79  | 21.54   |
| 1.4                                    | 1       | 5         |         | 21.85  | 21.61  | 21.49   |
| 1.4                                    | 3       | 0         |         | 20.92  | 20.74  | 20.70   |
| 1.4                                    | 3       | 1         |         | 20.89  | 20.72  | 20.63   |
| 1.4                                    | 3       | 3         |         | 20.74  | 20.56  | 20.41   |
| 1.4                                    | 6       | 0         |         | 20.83  | 20.64  | 20.64   |
| 1.4                                    | 1       | 0         | 256-QAM | 18.63  | 18.62  | 18.59   |
| 1.4                                    | 1       | 3         |         | 18.34  | 18.44  | 18.30   |
| 1.4                                    | 1       | 5         |         | 18.43  | 18.42  | 18.38   |
| 1.4                                    | 3       | 0         |         | 18.52  | 18.41  | 18.32   |
| 1.4                                    | 3       | 1         |         | 18.39  | 18.36  | 18.27   |
| 1.4                                    | 3       | 3         |         | 18.30  | 18.37  | 18.23   |
| 1.4                                    | 6       | 0         |         | 18.64  | 18.49  | 18.26   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK    | 23.49  | 23.48  | 23.68   |
| 10                                     | 1       | 25        |         | 23.42  | 23.51  | 23.66   |
| 10                                     | 1       | 49        |         | 23.47  | 23.60  | 23.62   |
| 10                                     | 25      | 0         |         | 22.53  | 22.59  | 22.71   |
| 10                                     | 25      | 12        |         | 22.62  | 22.67  | 22.78   |
| 10                                     | 25      | 25        |         | 22.60  | 22.69  | 22.80   |
| 10                                     | 50      | 0         |         | 22.62  | 22.67  | 22.78   |
| 10                                     | 1       | 0         | 16-QAM  | 22.90  | 22.88  | 22.97   |
| 10                                     | 1       | 25        |         | 22.82  | 22.89  | 22.99   |
| 10                                     | 1       | 49        |         | 22.89  | 22.99  | 22.99   |
| 10                                     | 25      | 0         |         | 21.52  | 21.56  | 21.69   |
| 10                                     | 25      | 12        |         | 21.62  | 21.66  | 21.76   |
| 10                                     | 25      | 25        |         | 21.57  | 21.70  | 21.82   |
| 10                                     | 50      | 0         |         | 21.62  | 21.67  | 21.77   |
| 10                                     | 1       | 0         | 64-QAM  | 21.74  | 21.75  | 21.84   |
| 10                                     | 1       | 25        |         | 21.78  | 21.78  | 22.00   |
| 10                                     | 1       | 49        |         | 21.74  | 21.91  | 21.93   |
| 10                                     | 25      | 0         |         | 20.57  | 20.62  | 20.76   |
| 10                                     | 25      | 12        |         | 20.66  | 20.71  | 20.82   |
| 10                                     | 25      | 25        |         | 20.61  | 20.73  | 20.87   |
| 10                                     | 50      | 0         |         | 20.64  | 20.72  | 20.81   |
| 10                                     | 1       | 0         | 256-QAM | 18.66  | 18.70  | 18.82   |
| 10                                     | 1       | 25        |         | 18.74  | 18.79  | 18.98   |
| 10                                     | 1       | 49        |         | 18.81  | 18.95  | 19.01   |
| 10                                     | 25      | 0         |         | 18.66  | 18.74  | 18.89   |
| 10                                     | 25      | 12        |         | 18.66  | 18.66  | 18.96   |
| 10                                     | 25      | 25        |         | 18.61  | 18.74  | 18.91   |
| 10                                     | 50      | 0         |         | 18.76  | 18.75  | 18.94   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK    | 23.49  | 23.40  | 23.59   |
| 5                                      | 1       | 12        |         | 23.40  | 23.41  | 23.57   |
| 5                                      | 1       | 24        |         | 23.37  | 23.56  | 23.62   |
| 5                                      | 12      | 0         |         | 22.48  | 22.50  | 22.65   |
| 5                                      | 12      | 7         |         | 22.57  | 22.64  | 22.72   |
| 5                                      | 12      | 13        |         | 22.60  | 22.64  | 22.74   |
| 5                                      | 25      | 0         |         | 22.53  | 22.60  | 22.71   |
| 5                                      | 1       | 0         | 16-QAM  | 22.84  | 22.83  | 22.94   |
| 5                                      | 1       | 12        |         | 22.74  | 22.88  | 22.91   |
| 5                                      | 1       | 24        |         | 22.86  | 22.98  | 22.93   |
| 5                                      | 12      | 0         |         | 21.45  | 21.51  | 21.60   |
| 5                                      | 12      | 7         |         | 21.59  | 21.60  | 21.67   |
| 5                                      | 12      | 13        |         | 21.47  | 21.70  | 21.79   |
| 5                                      | 25      | 0         |         | 21.58  | 21.65  | 21.73   |
| 5                                      | 1       | 0         | 64-QAM  | 21.65  | 21.75  | 21.80   |
| 5                                      | 1       | 12        |         | 21.72  | 21.75  | 21.97   |
| 5                                      | 1       | 24        |         | 21.71  | 21.91  | 21.88   |
| 5                                      | 12      | 0         |         | 20.55  | 20.55  | 20.73   |
| 5                                      | 12      | 7         |         | 20.57  | 20.66  | 20.78   |
| 5                                      | 12      | 13        |         | 20.52  | 20.67  | 20.82   |
| 5                                      | 25      | 0         |         | 20.64  | 20.70  | 20.76   |
| 5                                      | 1       | 0         | 256-QAM | 18.65  | 18.70  | 18.78   |
| 5                                      | 1       | 12        |         | 18.72  | 18.70  | 18.91   |
| 5                                      | 1       | 24        |         | 18.75  | 18.93  | 18.92   |
| 5                                      | 12      | 0         |         | 18.58  | 18.66  | 18.83   |
| 5                                      | 12      | 7         |         | 18.61  | 18.59  | 18.86   |
| 5                                      | 12      | 13        |         | 18.52  | 18.64  | 18.83   |
| 5                                      | 25      | 0         |         | 18.72  | 18.72  | 18.93   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK    | 23.47  | 23.39  | 23.53   |
| 3                                      | 1       | 8         |         | 23.42  | 23.46  | 23.65   |
| 3                                      | 1       | 14        |         | 23.41  | 23.59  | 23.67   |
| 3                                      | 8       | 0         |         | 22.47  | 22.50  | 22.64   |
| 3                                      | 8       | 4         |         | 22.57  | 22.65  | 22.76   |
| 3                                      | 8       | 7         |         | 22.51  | 22.65  | 22.75   |
| 3                                      | 15      | 0         |         | 22.59  | 22.62  | 22.70   |
| 3                                      | 1       | 0         | 16-QAM  | 22.86  | 22.85  | 22.96   |
| 3                                      | 1       | 8         |         | 22.73  | 22.87  | 22.99   |
| 3                                      | 1       | 14        |         | 22.84  | 22.95  | 22.97   |
| 3                                      | 8       | 0         |         | 21.52  | 21.53  | 21.62   |
| 3                                      | 8       | 4         |         | 21.61  | 21.63  | 21.71   |
| 3                                      | 8       | 7         |         | 21.51  | 21.63  | 21.79   |
| 3                                      | 15      | 0         |         | 21.62  | 21.65  | 21.76   |
| 3                                      | 1       | 0         | 64-QAM  | 21.72  | 21.68  | 21.79   |
| 3                                      | 1       | 8         |         | 21.76  | 21.71  | 21.98   |
| 3                                      | 1       | 14        |         | 21.69  | 21.82  | 21.83   |
| 3                                      | 8       | 0         |         | 20.51  | 20.53  | 20.72   |
| 3                                      | 8       | 4         |         | 20.65  | 20.61  | 20.75   |
| 3                                      | 8       | 7         |         | 20.58  | 20.69  | 20.77   |
| 3                                      | 15      | 0         |         | 20.58  | 20.70  | 20.77   |
| 3                                      | 1       | 0         | 256-QAM | 18.59  | 18.62  | 18.75   |
| 3                                      | 1       | 8         |         | 18.74  | 18.69  | 18.95   |
| 3                                      | 1       | 14        |         | 18.75  | 18.90  | 19.01   |
| 3                                      | 8       | 0         |         | 18.60  | 18.70  | 18.80   |
| 3                                      | 8       | 4         |         | 18.63  | 18.59  | 18.86   |
| 3                                      | 8       | 7         |         | 18.60  | 18.64  | 18.85   |
| 3                                      | 15      | 0         |         | 18.72  | 18.66  | 18.89   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                    | 1       | 0         | QPSK    | 23.52  | 23.53  | 23.59   |
| 1.4                                    | 1       | 3         |         | 23.55  | 23.61  | 23.58   |
| 1.4                                    | 1       | 5         |         | 23.44  | 23.52  | 23.51   |
| 1.4                                    | 3       | 0         |         | 23.58  | 23.52  | 23.51   |
| 1.4                                    | 3       | 1         |         | 23.58  | 23.55  | 23.51   |
| 1.4                                    | 3       | 3         |         | 23.50  | 23.57  | 23.57   |
| 1.4                                    | 6       | 0         |         | 22.59  | 22.65  | 22.84   |
| 1.4                                    | 1       | 0         | 16-QAM  | 22.86  | 22.82  | 22.97   |
| 1.4                                    | 1       | 3         |         | 22.92  | 22.94  | 23.00   |
| 1.4                                    | 1       | 5         |         | 22.82  | 22.89  | 22.97   |
| 1.4                                    | 3       | 0         |         | 22.63  | 22.62  | 22.86   |
| 1.4                                    | 3       | 1         |         | 22.68  | 22.67  | 22.92   |
| 1.4                                    | 3       | 3         |         | 22.57  | 22.67  | 22.83   |
| 1.4                                    | 6       | 0         |         | 21.67  | 21.73  | 21.95   |
| 1.4                                    | 1       | 0         | 64-QAM  | 21.75  | 21.79  | 21.95   |
| 1.4                                    | 1       | 3         |         | 21.83  | 21.88  | 21.99   |
| 1.4                                    | 1       | 5         |         | 21.76  | 21.78  | 21.96   |
| 1.4                                    | 3       | 0         |         | 21.72  | 21.72  | 21.97   |
| 1.4                                    | 3       | 1         |         | 21.78  | 21.79  | 21.94   |
| 1.4                                    | 3       | 3         |         | 21.71  | 21.75  | 21.96   |
| 1.4                                    | 6       | 0         |         | 20.62  | 20.67  | 20.85   |
| 1.4                                    | 1       | 0         | 256-QAM | 18.57  | 18.60  | 18.78   |
| 1.4                                    | 1       | 3         |         | 18.64  | 18.69  | 18.96   |
| 1.4                                    | 1       | 5         |         | 18.74  | 18.95  | 18.93   |
| 1.4                                    | 3       | 0         |         | 18.64  | 18.68  | 18.87   |
| 1.4                                    | 3       | 1         |         | 18.60  | 18.60  | 18.96   |
| 1.4                                    | 3       | 3         |         | 18.51  | 18.65  | 18.84   |
| 1.4                                    | 6       | 0         |         | 18.74  | 18.70  | 18.88   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |         |              |        |         |
|----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                     | 1       | 0         | QPSK    | <b>23.64</b> | 23.51  | 23.51   |
| 20                                     | 1       | 49        |         | 23.57        | 23.36  | 23.53   |
| 20                                     | 1       | 99        |         | 23.48        | 23.31  | 23.46   |
| 20                                     | 50      | 0         |         | 22.68        | 22.50  | 22.55   |
| 20                                     | 50      | 24        |         | 22.79        | 22.56  | 22.53   |
| 20                                     | 50      | 50        |         | 22.63        | 22.52  | 22.62   |
| 20                                     | 100     | 0         |         | 22.68        | 22.51  | 22.51   |
| 20                                     | 1       | 0         | 16-QAM  | 22.87        | 22.93  | 22.81   |
| 20                                     | 1       | 49        |         | 22.82        | 22.73  | 22.73   |
| 20                                     | 1       | 99        |         | 22.76        | 22.59  | 22.74   |
| 20                                     | 50      | 0         |         | 21.71        | 21.55  | 21.52   |
| 20                                     | 50      | 24        |         | 21.77        | 21.56  | 21.55   |
| 20                                     | 50      | 50        |         | 21.69        | 21.50  | 21.57   |
| 20                                     | 100     | 0         |         | 21.70        | 21.55  | 21.52   |
| 20                                     | 1       | 0         | 64-QAM  | 21.81        | 21.64  | 21.74   |
| 20                                     | 1       | 49        |         | 21.75        | 21.53  | 21.54   |
| 20                                     | 1       | 99        |         | 21.74        | 21.59  | 21.69   |
| 20                                     | 50      | 0         |         | 20.73        | 20.54  | 20.58   |
| 20                                     | 50      | 24        |         | 20.78        | 20.56  | 20.61   |
| 20                                     | 50      | 50        |         | 20.68        | 20.50  | 20.62   |
| 20                                     | 100     | 0         |         | 20.68        | 20.57  | 20.60   |
| 20                                     | 1       | 0         | 256-QAM | 18.81        | 18.79  | 18.80   |
| 20                                     | 1       | 49        |         | 18.78        | 18.67  | 18.82   |
| 20                                     | 1       | 99        |         | 18.97        | 18.66  | 18.74   |
| 20                                     | 50      | 0         |         | 18.76        | 18.64  | 18.65   |
| 20                                     | 50      | 24        |         | 18.82        | 18.64  | 18.70   |
| 20                                     | 50      | 50        |         | 18.76        | 18.60  | 18.63   |
| 20                                     | 100     | 0         |         | 18.80        | 18.71  | 18.70   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                     | 1       | 0         | QPSK    | 23.63  | 23.50  | 23.51   |
| 15                                     | 1       | 37        |         | 23.55  | 23.26  | 23.51   |
| 15                                     | 1       | 74        |         | 23.41  | 23.22  | 23.37   |
| 15                                     | 36      | 0         |         | 22.68  | 22.48  | 22.50   |
| 15                                     | 36      | 20        |         | 22.79  | 22.56  | 22.48   |
| 15                                     | 36      | 39        |         | 22.54  | 22.43  | 22.56   |
| 15                                     | 75      | 0         |         | 22.67  | 22.48  | 22.48   |
| 15                                     | 1       | 0         | 16-QAM  | 22.81  | 22.91  | 22.76   |
| 15                                     | 1       | 37        |         | 22.80  | 22.70  | 22.73   |
| 15                                     | 1       | 74        |         | 22.71  | 22.56  | 22.69   |
| 15                                     | 36      | 0         |         | 21.71  | 21.54  | 21.44   |
| 15                                     | 36      | 20        |         | 21.72  | 21.49  | 21.45   |
| 15                                     | 36      | 39        |         | 21.65  | 21.48  | 21.51   |
| 15                                     | 75      | 0         |         | 21.60  | 21.47  | 21.50   |
| 15                                     | 1       | 0         | 64-QAM  | 21.81  | 21.62  | 21.64   |
| 15                                     | 1       | 37        |         | 21.66  | 21.46  | 21.49   |
| 15                                     | 1       | 74        |         | 21.67  | 21.57  | 21.62   |
| 15                                     | 36      | 0         |         | 20.67  | 20.53  | 20.57   |
| 15                                     | 36      | 20        |         | 20.76  | 20.52  | 20.58   |
| 15                                     | 36      | 39        |         | 20.64  | 20.44  | 20.61   |
| 15                                     | 75      | 0         |         | 20.59  | 20.56  | 20.56   |
| 15                                     | 1       | 0         | 256-QAM | 18.76  | 18.74  | 18.78   |
| 15                                     | 1       | 37        |         | 18.72  | 18.63  | 18.75   |
| 15                                     | 1       | 74        |         | 18.90  | 18.57  | 18.72   |
| 15                                     | 36      | 0         |         | 18.74  | 18.54  | 18.56   |
| 15                                     | 36      | 20        |         | 18.78  | 18.61  | 18.63   |
| 15                                     | 36      | 39        |         | 18.76  | 18.56  | 18.57   |
| 15                                     | 75      | 0         |         | 18.73  | 18.69  | 18.70   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK    | 23.55  | 23.42  | 23.46   |
| 10                                     | 1       | 25        |         | 23.56  | 23.33  | 23.50   |
| 10                                     | 1       | 49        |         | 23.38  | 23.30  | 23.43   |
| 10                                     | 25      | 0         |         | 22.65  | 22.44  | 22.54   |
| 10                                     | 25      | 12        |         | 22.72  | 22.48  | 22.46   |
| 10                                     | 25      | 25        |         | 22.62  | 22.48  | 22.59   |
| 10                                     | 50      | 0         |         | 22.67  | 22.47  | 22.43   |
| 10                                     | 1       | 0         | 16-QAM  | 22.85  | 22.90  | 22.74   |
| 10                                     | 1       | 25        |         | 22.77  | 22.71  | 22.64   |
| 10                                     | 1       | 49        |         | 22.70  | 22.54  | 22.73   |
| 10                                     | 25      | 0         |         | 21.62  | 21.48  | 21.46   |
| 10                                     | 25      | 12        |         | 21.68  | 21.47  | 21.47   |
| 10                                     | 25      | 25        |         | 21.65  | 21.42  | 21.55   |
| 10                                     | 50      | 0         |         | 21.68  | 21.45  | 21.52   |
| 10                                     | 1       | 0         | 64-QAM  | 21.71  | 21.63  | 21.67   |
| 10                                     | 1       | 25        |         | 21.73  | 21.43  | 21.45   |
| 10                                     | 1       | 49        |         | 21.68  | 21.53  | 21.61   |
| 10                                     | 25      | 0         |         | 20.73  | 20.54  | 20.58   |
| 10                                     | 25      | 12        |         | 20.71  | 20.48  | 20.59   |
| 10                                     | 25      | 25        |         | 20.66  | 20.49  | 20.62   |
| 10                                     | 50      | 0         |         | 20.65  | 20.52  | 20.57   |
| 10                                     | 1       | 0         | 256-QAM | 18.79  | 18.70  | 18.75   |
| 10                                     | 1       | 25        |         | 18.71  | 18.57  | 18.79   |
| 10                                     | 1       | 49        |         | 18.90  | 18.61  | 18.64   |
| 10                                     | 25      | 0         |         | 18.74  | 18.54  | 18.65   |
| 10                                     | 25      | 12        |         | 18.74  | 18.55  | 18.68   |
| 10                                     | 25      | 25        |         | 18.74  | 18.56  | 18.58   |
| 10                                     | 50      | 0         |         | 18.77  | 18.71  | 18.66   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |         |        |        |         |
|----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                      | 1       | 0         | QPSK    | 23.55  | 23.43  | 23.45   |
| 5                                      | 1       | 12        |         | 23.53  | 23.30  | 23.43   |
| 5                                      | 1       | 24        |         | 23.38  | 23.28  | 23.41   |
| 5                                      | 12      | 0         |         | 22.65  | 22.45  | 22.50   |
| 5                                      | 12      | 7         |         | 22.71  | 22.54  | 22.43   |
| 5                                      | 12      | 13        |         | 22.54  | 22.50  | 22.61   |
| 5                                      | 25      | 0         |         | 22.65  | 22.50  | 22.47   |
| 5                                      | 1       | 0         | 16-QAM  | 22.86  | 22.93  | 22.77   |
| 5                                      | 1       | 12        |         | 22.82  | 22.69  | 22.65   |
| 5                                      | 1       | 24        |         | 22.76  | 22.58  | 22.68   |
| 5                                      | 12      | 0         |         | 21.65  | 21.51  | 21.50   |
| 5                                      | 12      | 7         |         | 21.73  | 21.54  | 21.51   |
| 5                                      | 12      | 13        |         | 21.66  | 21.40  | 21.55   |
| 5                                      | 25      | 0         |         | 21.67  | 21.46  | 21.49   |
| 5                                      | 1       | 0         | 64-QAM  | 21.73  | 21.63  | 21.72   |
| 5                                      | 1       | 12        |         | 21.68  | 21.50  | 21.48   |
| 5                                      | 1       | 24        |         | 21.72  | 21.54  | 21.61   |
| 5                                      | 12      | 0         |         | 20.73  | 20.50  | 20.53   |
| 5                                      | 12      | 7         |         | 20.78  | 20.56  | 20.52   |
| 5                                      | 12      | 13        |         | 20.60  | 20.46  | 20.56   |
| 5                                      | 25      | 0         |         | 20.59  | 20.54  | 20.53   |
| 5                                      | 1       | 0         | 256-QAM | 18.72  | 18.75  | 18.79   |
| 5                                      | 1       | 12        |         | 18.68  | 18.59  | 18.74   |
| 5                                      | 1       | 24        |         | 18.96  | 18.59  | 18.68   |
| 5                                      | 12      | 0         |         | 18.75  | 18.60  | 18.59   |
| 5                                      | 12      | 7         |         | 18.75  | 18.61  | 18.63   |
| 5                                      | 12      | 13        |         | 18.69  | 18.59  | 18.57   |
| 5                                      | 25      | 0         |         | 18.80  | 18.66  | 18.69   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.33  | 23.37  | 23.44   |
| 10                                      | 1       | 25        |         | 23.29  | 23.39  | 23.41   |
| 10                                      | 1       | 49        |         | 23.28  | 23.26  | 23.31   |
| 10                                      | 25      | 0         |         | 22.50  | 22.54  | 22.51   |
| 10                                      | 25      | 12        |         | 22.55  | 22.55  | 22.48   |
| 10                                      | 25      | 25        |         | 22.50  | 22.53  | 22.57   |
| 10                                      | 50      | 0         |         | 22.51  | 22.52  | 22.54   |
| 10                                      | 1       | 0         | 16-QAM  | 22.70  | 22.80  | 22.80   |
| 10                                      | 1       | 25        |         | 22.81  | 22.91  | 22.78   |
| 10                                      | 1       | 49        |         | 22.79  | 22.70  | 22.72   |
| 10                                      | 25      | 0         |         | 21.36  | 21.51  | 21.53   |
| 10                                      | 25      | 12        |         | 21.55  | 21.53  | 21.55   |
| 10                                      | 25      | 25        |         | 21.49  | 21.54  | 21.49   |
| 10                                      | 50      | 0         |         | 21.56  | 21.51  | 21.51   |
| 10                                      | 1       | 0         | 64-QAM  | 21.65  | 21.77  | 21.77   |
| 10                                      | 1       | 25        |         | 21.69  | 21.63  | 21.74   |
| 10                                      | 1       | 49        |         | 21.66  | 21.52  | 21.64   |
| 10                                      | 25      | 0         |         | 20.52  | 20.59  | 20.52   |
| 10                                      | 25      | 12        |         | 20.61  | 20.62  | 20.51   |
| 10                                      | 25      | 25        |         | 20.50  | 20.47  | 20.55   |
| 10                                      | 50      | 0         |         | 20.56  | 20.55  | 20.58   |
| 10                                      | 1       | 0         | 256-QAM | 18.50  | 18.48  | 18.60   |
| 10                                      | 1       | 25        |         | 18.62  | 18.62  | 18.57   |
| 10                                      | 1       | 49        |         | 18.58  | 18.62  | 18.53   |
| 10                                      | 25      | 0         |         | 18.53  | 18.49  | 18.52   |
| 10                                      | 25      | 12        |         | 18.49  | 18.53  | 18.55   |
| 10                                      | 25      | 25        |         | 18.40  | 18.44  | 18.53   |
| 10                                      | 50      | 0         |         | 18.53  | 18.48  | 18.49   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.23  | 23.29  | 23.39   |
| 5                                       | 1       | 12        |         | 23.19  | 23.34  | 23.37   |
| 5                                       | 1       | 24        |         | 23.26  | 23.18  | 23.22   |
| 5                                       | 12      | 0         |         | 22.49  | 22.52  | 22.51   |
| 5                                       | 12      | 7         |         | 22.47  | 22.45  | 22.43   |
| 5                                       | 12      | 13        |         | 22.43  | 22.51  | 22.50   |
| 5                                       | 25      | 0         |         | 22.51  | 22.46  | 22.51   |
| 5                                       | 1       | 0         | 16-QAM  | 22.62  | 22.77  | 22.78   |
| 5                                       | 1       | 12        |         | 22.74  | 22.89  | 22.71   |
| 5                                       | 1       | 24        |         | 22.75  | 22.68  | 22.63   |
| 5                                       | 12      | 0         |         | 21.29  | 21.44  | 21.43   |
| 5                                       | 12      | 7         |         | 21.53  | 21.45  | 21.50   |
| 5                                       | 12      | 13        |         | 21.39  | 21.49  | 21.44   |
| 5                                       | 25      | 0         |         | 21.46  | 21.48  | 21.48   |
| 5                                       | 1       | 0         | 64-QAM  | 21.56  | 21.70  | 21.76   |
| 5                                       | 1       | 12        |         | 21.67  | 21.59  | 21.67   |
| 5                                       | 1       | 24        |         | 21.61  | 21.46  | 21.63   |
| 5                                       | 12      | 0         |         | 20.44  | 20.50  | 20.43   |
| 5                                       | 12      | 7         |         | 20.51  | 20.56  | 20.48   |
| 5                                       | 12      | 13        |         | 20.47  | 20.44  | 20.55   |
| 5                                       | 25      | 0         |         | 20.52  | 20.51  | 20.51   |
| 5                                       | 1       | 0         | 256-QAM | 18.41  | 18.41  | 18.58   |
| 5                                       | 1       | 12        |         | 18.56  | 18.55  | 18.57   |
| 5                                       | 1       | 24        |         | 18.53  | 18.55  | 18.43   |
| 5                                       | 12      | 0         |         | 18.48  | 18.39  | 18.51   |
| 5                                       | 12      | 7         |         | 18.43  | 18.52  | 18.47   |
| 5                                       | 12      | 13        |         | 18.31  | 18.39  | 18.48   |
| 5                                       | 25      | 0         |         | 18.53  | 18.41  | 18.42   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK    | 23.32  | 23.27  | 23.35   |
| 3                                       | 1       | 8         |         | 23.29  | 23.33  | 23.40   |
| 3                                       | 1       | 14        |         | 23.22  | 23.26  | 23.25   |
| 3                                       | 8       | 0         |         | 22.42  | 22.50  | 22.44   |
| 3                                       | 8       | 4         |         | 22.54  | 22.48  | 22.44   |
| 3                                       | 8       | 7         |         | 22.46  | 22.43  | 22.54   |
| 3                                       | 15      | 0         |         | 22.49  | 22.47  | 22.50   |
| 3                                       | 1       | 0         | 16-QAM  | 22.63  | 22.72  | 22.71   |
| 3                                       | 1       | 8         |         | 22.77  | 22.86  | 22.73   |
| 3                                       | 1       | 14        |         | 22.71  | 22.60  | 22.68   |
| 3                                       | 8       | 0         |         | 21.28  | 21.49  | 21.50   |
| 3                                       | 8       | 4         |         | 21.53  | 21.52  | 21.46   |
| 3                                       | 8       | 7         |         | 21.43  | 21.47  | 21.48   |
| 3                                       | 15      | 0         |         | 21.55  | 21.50  | 21.50   |
| 3                                       | 1       | 0         | 64-QAM  | 21.63  | 21.69  | 21.76   |
| 3                                       | 1       | 8         |         | 21.65  | 21.57  | 21.73   |
| 3                                       | 1       | 14        |         | 21.59  | 21.49  | 21.62   |
| 3                                       | 8       | 0         |         | 20.47  | 20.51  | 20.51   |
| 3                                       | 8       | 4         |         | 20.51  | 20.56  | 20.51   |
| 3                                       | 8       | 7         |         | 20.44  | 20.39  | 20.55   |
| 3                                       | 15      | 0         |         | 20.54  | 20.48  | 20.54   |
| 3                                       | 1       | 0         | 256-QAM | 18.49  | 18.42  | 18.55   |
| 3                                       | 1       | 8         |         | 18.60  | 18.53  | 18.56   |
| 3                                       | 1       | 14        |         | 18.51  | 18.59  | 18.43   |
| 3                                       | 8       | 0         |         | 18.43  | 18.39  | 18.45   |
| 3                                       | 8       | 4         |         | 18.41  | 18.43  | 18.54   |
| 3                                       | 8       | 7         |         | 18.36  | 18.39  | 18.43   |
| 3                                       | 15      | 0         |         | 18.48  | 18.45  | 18.39   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK    | 23.32  | 23.28  | 23.30   |
| 1.4                                     | 1       | 3         |         | 23.29  | 23.41  | 23.36   |
| 1.4                                     | 1       | 5         |         | 23.19  | 23.31  | 23.23   |
| 1.4                                     | 3       | 0         |         | 23.36  | 23.36  | 23.31   |
| 1.4                                     | 3       | 1         |         | 23.33  | 23.31  | 23.34   |
| 1.4                                     | 3       | 3         |         | 23.27  | 23.37  | 23.27   |
| 1.4                                     | 6       | 0         |         | 22.40  | 22.41  | 22.38   |
| 1.4                                     | 1       | 0         | 16-QAM  | 22.60  | 22.56  | 22.67   |
| 1.4                                     | 1       | 3         |         | 22.60  | 22.68  | 22.28   |
| 1.4                                     | 1       | 5         |         | 22.58  | 22.69  | 22.56   |
| 1.4                                     | 3       | 0         |         | 22.35  | 22.41  | 22.36   |
| 1.4                                     | 3       | 1         |         | 22.46  | 22.41  | 22.43   |
| 1.4                                     | 3       | 3         |         | 22.36  | 22.47  | 22.35   |
| 1.4                                     | 6       | 0         |         | 21.44  | 21.44  | 21.23   |
| 1.4                                     | 1       | 0         | 64-QAM  | 20.68  | 21.54  | 21.49   |
| 1.4                                     | 1       | 3         |         | 21.59  | 21.59  | 21.44   |
| 1.4                                     | 1       | 5         |         | 21.51  | 21.52  | 21.49   |
| 1.4                                     | 3       | 0         |         | 21.51  | 21.45  | 21.48   |
| 1.4                                     | 3       | 1         |         | 21.36  | 21.56  | 21.56   |
| 1.4                                     | 3       | 3         |         | 21.54  | 21.53  | 21.44   |
| 1.4                                     | 6       | 0         |         | 20.40  | 20.42  | 20.42   |
| 1.4                                     | 1       | 0         | 256-QAM | 18.40  | 18.39  | 18.54   |
| 1.4                                     | 1       | 3         |         | 18.62  | 18.52  | 18.52   |
| 1.4                                     | 1       | 5         |         | 18.56  | 18.57  | 18.46   |
| 1.4                                     | 3       | 0         |         | 18.46  | 18.43  | 18.46   |
| 1.4                                     | 3       | 1         |         | 18.40  | 18.48  | 18.50   |
| 1.4                                     | 3       | 3         |         | 18.32  | 18.41  | 18.46   |
| 1.4                                     | 6       | 0         |         | 18.47  | 18.38  | 18.39   |



| LTE Band 13 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | -      | 23.68  | -       |
| 10                                      | 1       | 25        |         |        | 23.56  |         |
| 10                                      | 1       | 49        |         |        | 23.61  |         |
| 10                                      | 25      | 0         |         |        | 22.74  |         |
| 10                                      | 25      | 12        |         |        | 22.79  |         |
| 10                                      | 25      | 25        |         |        | 22.83  |         |
| 10                                      | 50      | 0         |         |        | 22.81  |         |
| 10                                      | 1       | 0         | 16-QAM  |        | 22.87  |         |
| 10                                      | 1       | 25        |         |        | 23.00  |         |
| 10                                      | 1       | 49        |         |        | 22.99  |         |
| 10                                      | 25      | 0         |         |        | 21.72  |         |
| 10                                      | 25      | 12        |         |        | 21.80  |         |
| 10                                      | 25      | 25        |         |        | 21.83  |         |
| 10                                      | 50      | 0         |         |        | 21.78  |         |
| 10                                      | 1       | 0         | 64-QAM  |        | 21.70  |         |
| 10                                      | 1       | 25        |         |        | 21.89  |         |
| 10                                      | 1       | 49        |         |        | 22.00  |         |
| 10                                      | 25      | 0         |         |        | 20.74  |         |
| 10                                      | 25      | 12        |         |        | 20.81  |         |
| 10                                      | 25      | 25        |         |        | 20.85  |         |
| 10                                      | 50      | 0         |         |        | 20.82  |         |
| 10                                      | 1       | 0         | 256-QAM |        | 18.94  |         |
| 10                                      | 1       | 25        |         |        | 19.13  |         |
| 10                                      | 1       | 49        |         |        | 19.12  |         |
| 10                                      | 25      | 0         |         |        | 18.74  |         |
| 10                                      | 25      | 12        |         |        | 18.83  |         |
| 10                                      | 25      | 25        |         |        | 18.92  |         |
| 10                                      | 50      | 0         |         |        | 18.94  |         |



| LTE Band 13 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.44  | 23.47  | 23.43   |
| 5                                       | 1       | 12        |         | 23.46  | 23.56  | 23.49   |
| 5                                       | 1       | 24        |         | 23.68  | 23.65  | 23.60   |
| 5                                       | 12      | 0         |         | 22.67  | 22.71  | 22.64   |
| 5                                       | 12      | 7         |         | 22.74  | 22.69  | 22.72   |
| 5                                       | 12      | 13        |         | 22.77  | 22.82  | 22.80   |
| 5                                       | 25      | 0         |         | 22.77  | 22.76  | 22.79   |
| 5                                       | 1       | 0         | 16-QAM  | 22.83  | 22.78  | 22.84   |
| 5                                       | 1       | 12        |         | 22.93  | 22.97  | 23.00   |
| 5                                       | 1       | 24        |         | 22.96  | 22.95  | 22.89   |
| 5                                       | 12      | 0         |         | 21.69  | 21.69  | 21.67   |
| 5                                       | 12      | 7         |         | 21.74  | 21.79  | 21.73   |
| 5                                       | 12      | 13        |         | 21.73  | 21.82  | 21.80   |
| 5                                       | 25      | 0         |         | 21.74  | 21.71  | 21.70   |
| 5                                       | 1       | 0         | 64-QAM  | 21.60  | 21.64  | 21.66   |
| 5                                       | 1       | 12        |         | 21.84  | 21.81  | 21.82   |
| 5                                       | 1       | 24        |         | 22.00  | 22.00  | 21.90   |
| 5                                       | 12      | 0         |         | 20.66  | 20.66  | 20.66   |
| 5                                       | 12      | 7         |         | 20.81  | 20.71  | 20.78   |
| 5                                       | 12      | 13        |         | 20.79  | 20.81  | 20.75   |
| 5                                       | 25      | 0         |         | 20.76  | 20.74  | 20.82   |
| 5                                       | 1       | 0         | 256-QAM | 18.83  | 18.93  | 18.84   |
| 5                                       | 1       | 12        |         | 19.00  | 19.06  | 19.05   |
| 5                                       | 1       | 24        |         | 19.02  | 19.02  | 19.01   |
| 5                                       | 12      | 0         |         | 18.75  | 18.83  | 18.74   |
| 5                                       | 12      | 7         |         | 18.86  | 18.89  | 18.86   |
| 5                                       | 12      | 13        |         | 18.83  | 18.89  | 18.82   |
| 5                                       | 25      | 0         |         | 18.79  | 18.85  | 18.80   |



| LTE Band 17 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.49  | 23.52  | 23.50   |
| 10                                      | 1       | 25        |         | 23.38  | 23.48  | 23.37   |
| 10                                      | 1       | 49        |         | 23.50  | 23.39  | 23.32   |
| 10                                      | 25      | 0         |         | 22.57  | 22.57  | 22.57   |
| 10                                      | 25      | 12        |         | 22.62  | 22.62  | 22.58   |
| 10                                      | 25      | 25        |         | 22.62  | 22.66  | 22.61   |
| 10                                      | 50      | 0         |         | 22.64  | 22.57  | 22.57   |
| 10                                      | 1       | 0         | 16-QAM  | 22.89  | 22.87  | 22.87   |
| 10                                      | 1       | 25        |         | 22.83  | 22.79  | 22.83   |
| 10                                      | 1       | 49        |         | 22.79  | 22.85  | 22.74   |
| 10                                      | 25      | 0         |         | 21.47  | 21.56  | 21.56   |
| 10                                      | 25      | 12        |         | 21.69  | 21.62  | 21.57   |
| 10                                      | 25      | 25        |         | 21.63  | 21.67  | 21.60   |
| 10                                      | 50      | 0         |         | 21.65  | 21.58  | 21.58   |
| 10                                      | 1       | 0         | 64-QAM  | 21.78  | 21.66  | 21.66   |
| 10                                      | 1       | 25        |         | 21.83  | 21.83  | 21.79   |
| 10                                      | 1       | 49        |         | 21.63  | 21.70  | 21.74   |
| 10                                      | 25      | 0         |         | 20.59  | 20.65  | 20.63   |
| 10                                      | 25      | 12        |         | 20.67  | 20.66  | 20.57   |
| 10                                      | 25      | 25        |         | 20.70  | 20.67  | 20.67   |
| 10                                      | 50      | 0         |         | 20.67  | 20.63  | 20.61   |
| 10                                      | 1       | 0         | 256-QAM | 18.65  | 18.64  | 18.63   |
| 10                                      | 1       | 25        |         | 18.71  | 18.74  | 18.80   |
| 10                                      | 1       | 49        |         | 18.79  | 18.88  | 18.84   |
| 10                                      | 25      | 0         |         | 18.66  | 18.66  | 18.68   |
| 10                                      | 25      | 12        |         | 18.73  | 18.60  | 18.65   |
| 10                                      | 25      | 25        |         | 18.75  | 18.66  | 18.73   |
| 10                                      | 50      | 0         |         | 18.75  | 18.67  | 18.66   |



| LTE Band 17 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.47  | 23.49  | 23.50   |
| 5                                       | 1       | 12        |         | 23.33  | 23.47  | 23.31   |
| 5                                       | 1       | 24        |         | 23.44  | 23.36  | 23.31   |
| 5                                       | 12      | 0         |         | 22.54  | 22.48  | 22.52   |
| 5                                       | 12      | 7         |         | 22.52  | 22.61  | 22.57   |
| 5                                       | 12      | 13        |         | 22.52  | 22.58  | 22.51   |
| 5                                       | 25      | 0         |         | 22.63  | 22.47  | 22.57   |
| 5                                       | 1       | 0         | 16-QAM  | 22.85  | 22.85  | 22.82   |
| 5                                       | 1       | 12        |         | 22.80  | 22.71  | 22.82   |
| 5                                       | 1       | 24        |         | 22.79  | 22.79  | 22.73   |
| 5                                       | 12      | 0         |         | 21.37  | 21.46  | 21.47   |
| 5                                       | 12      | 7         |         | 21.69  | 21.55  | 21.50   |
| 5                                       | 12      | 13        |         | 21.55  | 21.58  | 21.55   |
| 5                                       | 25      | 0         |         | 21.65  | 21.57  | 21.55   |
| 5                                       | 1       | 0         | 64-QAM  | 21.70  | 21.63  | 21.65   |
| 5                                       | 1       | 12        |         | 21.76  | 21.78  | 21.75   |
| 5                                       | 1       | 24        |         | 21.58  | 21.60  | 21.73   |
| 5                                       | 12      | 0         |         | 20.57  | 20.58  | 20.57   |
| 5                                       | 12      | 7         |         | 20.64  | 20.57  | 20.48   |
| 5                                       | 12      | 13        |         | 20.63  | 20.65  | 20.63   |
| 5                                       | 25      | 0         |         | 20.61  | 20.59  | 20.55   |
| 5                                       | 1       | 0         | 256-QAM | 18.64  | 18.64  | 18.54   |
| 5                                       | 1       | 12        |         | 18.70  | 18.69  | 18.75   |
| 5                                       | 1       | 24        |         | 18.78  | 18.81  | 18.76   |
| 5                                       | 12      | 0         |         | 18.58  | 18.60  | 18.62   |
| 5                                       | 12      | 7         |         | 18.63  | 18.54  | 18.65   |
| 5                                       | 12      | 13        |         | 18.71  | 18.63  | 18.73   |
| 5                                       | 25      | 0         |         | 18.67  | 18.59  | 18.66   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.68  | 23.62  | 23.81   |
| 15                                      | 1       | 37        |         | 23.58  | 23.63  | 23.71   |
| 15                                      | 1       | 74        |         | 23.63  | 23.75  | 23.66   |
| 15                                      | 36      | 0         |         | 22.71  | 22.76  | 22.84   |
| 15                                      | 36      | 20        |         | 22.76  | 22.82  | 22.88   |
| 15                                      | 36      | 39        |         | 22.71  | 22.86  | 22.91   |
| 15                                      | 75      | 0         |         | 22.76  | 22.82  | 22.86   |
| 15                                      | 1       | 0         | 16-QAM  | 23.00  | 22.96  | 22.99   |
| 15                                      | 1       | 37        |         | 22.93  | 22.97  | 22.99   |
| 15                                      | 1       | 74        |         | 22.93  | 22.92  | 22.95   |
| 15                                      | 36      | 0         |         | 21.74  | 21.76  | 21.85   |
| 15                                      | 36      | 20        |         | 21.76  | 21.82  | 21.87   |
| 15                                      | 36      | 39        |         | 21.72  | 21.87  | 21.90   |
| 15                                      | 75      | 0         |         | 21.76  | 21.82  | 21.88   |
| 15                                      | 1       | 0         | 64-QAM  | 21.86  | 21.81  | 21.91   |
| 15                                      | 1       | 37        |         | 21.85  | 21.94  | 21.99   |
| 15                                      | 1       | 74        |         | 21.82  | 21.96  | 21.88   |
| 15                                      | 36      | 0         |         | 20.78  | 20.80  | 20.92   |
| 15                                      | 36      | 20        |         | 20.78  | 20.85  | 20.93   |
| 15                                      | 36      | 39        |         | 20.77  | 20.92  | 20.94   |
| 15                                      | 75      | 0         |         | 20.77  | 20.82  | 20.89   |
| 15                                      | 1       | 0         | 256-QAM | 18.76  | 18.72  | 18.84   |
| 15                                      | 1       | 37        |         | 18.71  | 18.80  | 18.98   |
| 15                                      | 1       | 74        |         | 18.73  | 18.89  | 18.84   |
| 15                                      | 36      | 0         |         | 18.64  | 18.75  | 18.86   |
| 15                                      | 36      | 20        |         | 18.70  | 18.73  | 18.85   |
| 15                                      | 36      | 39        |         | 18.63  | 18.75  | 18.86   |
| 15                                      | 75      | 0         |         | 18.66  | 18.73  | 18.84   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.74  | 23.67  | 23.64   |
| 10                                      | 1       | 25        |         | 23.62  | 23.62  | 23.79   |
| 10                                      | 1       | 49        |         | 23.67  | 23.78  | 23.76   |
| 10                                      | 25      | 0         |         | 22.79  | 22.79  | 22.97   |
| 10                                      | 25      | 12        |         | 22.80  | 22.87  | 22.96   |
| 10                                      | 25      | 25        |         | 22.72  | 22.84  | 22.95   |
| 10                                      | 50      | 0         |         | 22.78  | 22.87  | 22.92   |
| 10                                      | 1       | 0         | 16-QAM  | 22.95  | 22.83  | 23.00   |
| 10                                      | 1       | 25        |         | 22.82  | 22.86  | 23.00   |
| 10                                      | 1       | 49        |         | 22.83  | 22.92  | 22.93   |
| 10                                      | 25      | 0         |         | 21.81  | 21.80  | 21.95   |
| 10                                      | 25      | 12        |         | 21.80  | 21.91  | 21.98   |
| 10                                      | 25      | 25        |         | 21.73  | 21.82  | 21.88   |
| 10                                      | 50      | 0         |         | 21.78  | 21.87  | 21.90   |
| 10                                      | 1       | 0         | 64-QAM  | 21.91  | 21.88  | 21.88   |
| 10                                      | 1       | 25        |         | 21.94  | 21.93  | 21.99   |
| 10                                      | 1       | 49        |         | 21.97  | 22.00  | 21.89   |
| 10                                      | 25      | 0         |         | 20.84  | 20.82  | 20.91   |
| 10                                      | 25      | 12        |         | 20.83  | 20.94  | 20.92   |
| 10                                      | 25      | 25        |         | 20.74  | 20.87  | 20.96   |
| 10                                      | 50      | 0         |         | 20.80  | 20.90  | 20.92   |
| 10                                      | 1       | 0         | 256-QAM | 18.74  | 18.67  | 18.79   |
| 10                                      | 1       | 25        |         | 18.69  | 18.71  | 18.94   |
| 10                                      | 1       | 49        |         | 18.73  | 18.80  | 18.74   |
| 10                                      | 25      | 0         |         | 18.55  | 18.67  | 18.77   |
| 10                                      | 25      | 12        |         | 18.69  | 18.70  | 18.81   |
| 10                                      | 25      | 25        |         | 18.60  | 18.68  | 18.83   |
| 10                                      | 50      | 0         |         | 18.59  | 18.64  | 18.74   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.67  | 23.59  | 23.63   |
| 5                                       | 1       | 12        |         | 23.56  | 23.59  | 23.72   |
| 5                                       | 1       | 24        |         | 23.61  | 23.68  | 23.65   |
| 5                                       | 12      | 0         |         | 22.62  | 22.73  | 22.81   |
| 5                                       | 12      | 7         |         | 22.76  | 22.82  | 22.87   |
| 5                                       | 12      | 13        |         | 22.70  | 22.86  | 22.84   |
| 5                                       | 25      | 0         |         | 22.75  | 22.72  | 22.83   |
| 5                                       | 1       | 0         | 16-QAM  | 23.00  | 22.87  | 22.95   |
| 5                                       | 1       | 12        |         | 22.85  | 22.96  | 22.92   |
| 5                                       | 1       | 24        |         | 22.87  | 22.83  | 22.91   |
| 5                                       | 12      | 0         |         | 21.71  | 21.69  | 21.79   |
| 5                                       | 12      | 7         |         | 21.71  | 21.75  | 21.80   |
| 5                                       | 12      | 13        |         | 21.67  | 21.80  | 21.87   |
| 5                                       | 25      | 0         |         | 21.66  | 21.81  | 21.85   |
| 5                                       | 1       | 0         | 64-QAM  | 21.77  | 21.73  | 21.87   |
| 5                                       | 1       | 12        |         | 21.82  | 21.92  | 21.95   |
| 5                                       | 1       | 24        |         | 21.77  | 21.86  | 21.84   |
| 5                                       | 12      | 0         |         | 20.73  | 20.78  | 20.89   |
| 5                                       | 12      | 7         |         | 20.71  | 20.79  | 20.89   |
| 5                                       | 12      | 13        |         | 20.76  | 20.91  | 20.84   |
| 5                                       | 25      | 0         |         | 20.73  | 20.82  | 20.83   |
| 5                                       | 1       | 0         | 256-QAM | 18.66  | 18.64  | 18.79   |
| 5                                       | 1       | 12        |         | 18.71  | 18.79  | 18.95   |
| 5                                       | 1       | 24        |         | 18.63  | 18.89  | 18.77   |
| 5                                       | 12      | 0         |         | 18.62  | 18.65  | 18.82   |
| 5                                       | 12      | 7         |         | 18.70  | 18.73  | 18.82   |
| 5                                       | 12      | 13        |         | 18.57  | 18.75  | 18.80   |
| 5                                       | 25      | 0         |         | 18.66  | 18.64  | 18.82   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK    | 23.68  | 23.60  | 23.62   |
| 3                                       | 1       | 8         |         | 23.49  | 23.61  | 23.80   |
| 3                                       | 1       | 14        |         | 23.58  | 23.75  | 23.61   |
| 3                                       | 8       | 0         |         | 22.69  | 22.66  | 22.80   |
| 3                                       | 8       | 4         |         | 22.76  | 22.80  | 22.87   |
| 3                                       | 8       | 7         |         | 22.68  | 22.82  | 22.91   |
| 3                                       | 15      | 0         |         | 22.70  | 22.77  | 22.86   |
| 3                                       | 1       | 0         | 16-QAM  | 22.93  | 22.91  | 22.93   |
| 3                                       | 1       | 8         |         | 22.92  | 22.89  | 22.89   |
| 3                                       | 1       | 14        |         | 22.93  | 22.84  | 22.85   |
| 3                                       | 8       | 0         |         | 21.64  | 21.67  | 21.85   |
| 3                                       | 8       | 4         |         | 21.73  | 21.80  | 21.83   |
| 3                                       | 8       | 7         |         | 21.66  | 21.78  | 21.80   |
| 3                                       | 15      | 0         |         | 21.72  | 21.75  | 21.84   |
| 3                                       | 1       | 0         | 64-QAM  | 21.78  | 21.72  | 21.87   |
| 3                                       | 1       | 8         |         | 21.82  | 21.89  | 21.98   |
| 3                                       | 1       | 14        |         | 21.75  | 21.92  | 21.78   |
| 3                                       | 8       | 0         |         | 20.69  | 20.71  | 20.82   |
| 3                                       | 8       | 4         |         | 20.75  | 20.77  | 20.86   |
| 3                                       | 8       | 7         |         | 20.74  | 20.87  | 20.87   |
| 3                                       | 15      | 0         |         | 20.75  | 20.79  | 20.87   |
| 3                                       | 1       | 0         | 256-QAM | 18.68  | 18.62  | 18.79   |
| 3                                       | 1       | 8         |         | 18.67  | 18.77  | 18.96   |
| 3                                       | 1       | 14        |         | 18.70  | 18.81  | 18.84   |
| 3                                       | 8       | 0         |         | 18.56  | 18.74  | 18.81   |
| 3                                       | 8       | 4         |         | 18.70  | 18.68  | 18.77   |
| 3                                       | 8       | 7         |         | 18.56  | 18.69  | 18.83   |
| 3                                       | 15      | 0         |         | 18.57  | 18.72  | 18.83   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK    | 23.56  | 23.46  | 23.61   |
| 1.4                                     | 1       | 3         |         | 23.62  | 23.59  | 23.64   |
| 1.4                                     | 1       | 5         |         | 23.51  | 23.52  | 23.53   |
| 1.4                                     | 3       | 0         |         | 23.63  | 23.52  | 23.63   |
| 1.4                                     | 3       | 1         |         | 23.61  | 23.55  | 23.66   |
| 1.4                                     | 3       | 3         |         | 23.59  | 23.55  | 23.62   |
| 1.4                                     | 6       | 0         |         | 22.62  | 22.65  | 22.69   |
| 1.4                                     | 1       | 0         | 16-QAM  | 22.90  | 22.80  | 22.93   |
| 1.4                                     | 1       | 3         |         | 22.95  | 22.92  | 22.99   |
| 1.4                                     | 1       | 5         |         | 22.88  | 22.85  | 22.88   |
| 1.4                                     | 3       | 0         |         | 22.71  | 22.59  | 22.73   |
| 1.4                                     | 3       | 1         |         | 22.74  | 22.65  | 22.76   |
| 1.4                                     | 3       | 3         |         | 22.68  | 22.64  | 22.68   |
| 1.4                                     | 6       | 0         |         | 21.73  | 21.73  | 21.76   |
| 1.4                                     | 1       | 0         | 64-QAM  | 21.85  | 21.76  | 21.88   |
| 1.4                                     | 1       | 3         |         | 21.88  | 21.85  | 21.89   |
| 1.4                                     | 1       | 5         |         | 21.80  | 21.76  | 21.81   |
| 1.4                                     | 3       | 0         |         | 21.80  | 21.71  | 21.83   |
| 1.4                                     | 3       | 1         |         | 21.87  | 21.78  | 21.87   |
| 1.4                                     | 3       | 3         |         | 21.76  | 21.72  | 21.77   |
| 1.4                                     | 6       | 0         |         | 20.68  | 20.68  | 20.74   |
| 1.4                                     | 1       | 0         | 256-QAM | 18.74  | 18.66  | 18.76   |
| 1.4                                     | 1       | 3         |         | 18.68  | 18.77  | 18.98   |
| 1.4                                     | 1       | 5         |         | 18.67  | 18.83  | 18.77   |
| 1.4                                     | 3       | 0         |         | 18.62  | 18.71  | 18.76   |
| 1.4                                     | 3       | 1         |         | 18.62  | 18.68  | 18.84   |
| 1.4                                     | 3       | 3         |         | 18.61  | 18.72  | 18.85   |
| 1.4                                     | 6       | 0         |         | 18.60  | 18.64  | 18.84   |



| LTE Band 38 Maximum Average Power [dBm] |         |           |         |              |        |              |
|-----------------------------------------|---------|-----------|---------|--------------|--------|--------------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest      |
| 20                                      | 1       | 0         | QPSK    | <b>23.76</b> | 23.66  | 23.64        |
| 20                                      | 1       | 49        |         | 23.74        | 23.68  | 23.75        |
| 20                                      | 1       | 99        |         | 23.72        | 23.74  | <b>23.76</b> |
| 20                                      | 50      | 0         |         | 22.95        | 22.81  | 22.87        |
| 20                                      | 50      | 24        |         | 22.96        | 22.88  | 22.91        |
| 20                                      | 50      | 50        |         | 22.91        | 22.88  | 22.96        |
| 20                                      | 100     | 0         |         | 22.94        | 22.89  | 22.90        |
| 20                                      | 1       | 0         | 16-QAM  | 22.85        | 22.77  | 22.77        |
| 20                                      | 1       | 49        |         | 22.81        | 22.75  | 22.84        |
| 20                                      | 1       | 99        |         | 22.81        | 22.85  | 22.87        |
| 20                                      | 50      | 0         |         | 21.98        | 21.83  | 21.89        |
| 20                                      | 50      | 24        |         | 21.97        | 21.91  | 21.91        |
| 20                                      | 50      | 50        |         | 21.95        | 21.91  | 21.99        |
| 20                                      | 100     | 0         |         | 21.96        | 21.90  | 21.90        |
| 20                                      | 1       | 0         | 64-QAM  | 21.48        | 21.43  | 21.47        |
| 20                                      | 1       | 49        |         | 21.55        | 21.48  | 21.61        |
| 20                                      | 1       | 99        |         | 21.56        | 21.63  | 21.66        |
| 20                                      | 50      | 0         |         | 21.00        | 20.85  | 20.92        |
| 20                                      | 50      | 24        |         | 21.00        | 20.93  | 20.94        |
| 20                                      | 50      | 50        |         | 20.96        | 20.92  | 21.00        |
| 20                                      | 100     | 0         |         | 20.98        | 20.91  | 20.90        |
| 20                                      | 1       | 0         | 256-QAM | 19.03        | 18.98  | 18.97        |
| 20                                      | 1       | 49        |         | 19.36        | 18.78  | 18.85        |
| 20                                      | 1       | 99        |         | 19.17        | 19.23  | 18.87        |
| 20                                      | 50      | 0         |         | 19.30        | 19.11  | 19.22        |
| 20                                      | 50      | 24        |         | 19.29        | 19.18  | 19.15        |
| 20                                      | 50      | 50        |         | 19.21        | 19.11  | 19.16        |
| 20                                      | 100     | 0         |         | 19.28        | 19.15  | 19.14        |



| LTE Band 38 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.67  | 23.59  | 23.64   |
| 15                                      | 1       | 37        |         | 23.71  | 23.58  | 23.68   |
| 15                                      | 1       | 74        |         | 23.63  | 23.74  | 23.74   |
| 15                                      | 36      | 0         |         | 22.91  | 22.74  | 22.85   |
| 15                                      | 36      | 20        |         | 22.86  | 22.81  | 22.87   |
| 15                                      | 36      | 39        |         | 22.90  | 22.83  | 22.91   |
| 15                                      | 75      | 0         |         | 22.85  | 22.81  | 22.83   |
| 15                                      | 1       | 0         | 16-QAM  | 22.84  | 22.75  | 22.74   |
| 15                                      | 1       | 37        |         | 22.71  | 22.75  | 22.76   |
| 15                                      | 1       | 74        |         | 22.73  | 22.75  | 22.82   |
| 15                                      | 36      | 0         |         | 21.90  | 21.79  | 21.86   |
| 15                                      | 36      | 20        |         | 21.89  | 21.87  | 21.90   |
| 15                                      | 36      | 39        |         | 21.88  | 21.81  | 21.90   |
| 15                                      | 75      | 0         |         | 21.96  | 21.89  | 21.82   |
| 15                                      | 1       | 0         | 64-QAM  | 21.46  | 21.41  | 21.47   |
| 15                                      | 1       | 37        |         | 21.55  | 21.39  | 21.55   |
| 15                                      | 1       | 74        |         | 21.52  | 21.57  | 21.66   |
| 15                                      | 36      | 0         |         | 20.97  | 20.82  | 20.89   |
| 15                                      | 36      | 20        |         | 20.97  | 20.86  | 20.85   |
| 15                                      | 36      | 39        |         | 20.93  | 20.88  | 20.95   |
| 15                                      | 75      | 0         |         | 20.88  | 20.84  | 20.85   |
| 15                                      | 1       | 0         | 256-QAM | 18.94  | 18.90  | 18.92   |
| 15                                      | 1       | 37        |         | 19.35  | 18.70  | 18.81   |
| 15                                      | 1       | 74        |         | 19.10  | 19.13  | 18.81   |
| 15                                      | 36      | 0         |         | 19.26  | 19.08  | 19.18   |
| 15                                      | 36      | 20        |         | 19.29  | 19.08  | 19.08   |
| 15                                      | 36      | 39        |         | 19.19  | 19.10  | 19.14   |
| 15                                      | 75      | 0         |         | 19.27  | 19.06  | 19.05   |



| LTE Band 38 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.71  | 23.61  | 23.58   |
| 10                                      | 1       | 25        |         | 23.71  | 23.65  | 23.74   |
| 10                                      | 1       | 49        |         | 23.67  | 23.72  | 23.74   |
| 10                                      | 25      | 0         |         | 22.94  | 22.78  | 22.79   |
| 10                                      | 25      | 12        |         | 22.96  | 22.86  | 22.88   |
| 10                                      | 25      | 25        |         | 22.81  | 22.83  | 22.95   |
| 10                                      | 50      | 0         |         | 22.93  | 22.89  | 22.85   |
| 10                                      | 1       | 0         | 16-QAM  | 22.82  | 22.69  | 22.74   |
| 10                                      | 1       | 25        |         | 22.72  | 22.70  | 22.79   |
| 10                                      | 1       | 49        |         | 22.77  | 22.84  | 22.85   |
| 10                                      | 25      | 0         |         | 21.98  | 21.83  | 21.81   |
| 10                                      | 25      | 12        |         | 21.93  | 21.82  | 21.90   |
| 10                                      | 25      | 25        |         | 21.90  | 21.87  | 21.98   |
| 10                                      | 50      | 0         |         | 21.93  | 21.88  | 21.84   |
| 10                                      | 1       | 0         | 64-QAM  | 21.47  | 21.34  | 21.39   |
| 10                                      | 1       | 25        |         | 21.50  | 21.42  | 21.58   |
| 10                                      | 1       | 49        |         | 21.54  | 21.53  | 21.59   |
| 10                                      | 25      | 0         |         | 20.96  | 20.83  | 20.83   |
| 10                                      | 25      | 12        |         | 20.91  | 20.84  | 20.90   |
| 10                                      | 25      | 25        |         | 20.88  | 20.84  | 21.00   |
| 10                                      | 50      | 0         |         | 20.91  | 20.91  | 20.81   |
| 10                                      | 1       | 0         | 256-QAM | 18.99  | 18.96  | 18.87   |
| 10                                      | 1       | 25        |         | 19.30  | 18.74  | 18.82   |
| 10                                      | 1       | 49        |         | 19.15  | 19.16  | 18.86   |
| 10                                      | 25      | 0         |         | 19.27  | 19.03  | 19.21   |
| 10                                      | 25      | 12        |         | 19.28  | 19.15  | 19.13   |
| 10                                      | 25      | 25        |         | 19.13  | 19.06  | 19.13   |
| 10                                      | 50      | 0         |         | 19.25  | 19.10  | 19.04   |



| LTE Band 38 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.63  | 23.63  | 23.62   |
| 5                                       | 1       | 12        |         | 23.72  | 23.67  | 23.73   |
| 5                                       | 1       | 24        |         | 23.70  | 23.73  | 23.72   |
| 5                                       | 12      | 0         |         | 22.91  | 22.71  | 22.84   |
| 5                                       | 12      | 7         |         | 22.96  | 22.78  | 22.86   |
| 5                                       | 12      | 13        |         | 22.83  | 22.88  | 22.94   |
| 5                                       | 25      | 0         |         | 22.86  | 22.85  | 22.81   |
| 5                                       | 1       | 0         | 16-QAM  | 22.79  | 22.71  | 22.77   |
| 5                                       | 1       | 12        |         | 22.81  | 22.67  | 22.79   |
| 5                                       | 1       | 24        |         | 22.76  | 22.81  | 22.83   |
| 5                                       | 12      | 0         |         | 21.93  | 21.75  | 21.87   |
| 5                                       | 12      | 7         |         | 21.89  | 21.84  | 21.82   |
| 5                                       | 12      | 13        |         | 21.87  | 21.85  | 21.97   |
| 5                                       | 25      | 0         |         | 21.92  | 21.89  | 21.90   |
| 5                                       | 1       | 0         | 64-QAM  | 21.43  | 21.37  | 21.46   |
| 5                                       | 1       | 12        |         | 21.51  | 21.44  | 21.55   |
| 5                                       | 1       | 24        |         | 21.47  | 21.60  | 21.56   |
| 5                                       | 12      | 0         |         | 20.98  | 20.77  | 20.82   |
| 5                                       | 12      | 7         |         | 21.00  | 20.92  | 20.92   |
| 5                                       | 12      | 13        |         | 20.93  | 20.92  | 20.90   |
| 5                                       | 25      | 0         |         | 20.93  | 20.91  | 20.82   |
| 5                                       | 1       | 0         | 256-QAM | 19.02  | 18.94  | 18.92   |
| 5                                       | 1       | 12        |         | 19.30  | 18.78  | 18.82   |
| 5                                       | 1       | 24        |         | 19.13  | 19.21  | 18.78   |
| 5                                       | 12      | 0         |         | 19.27  | 19.10  | 19.12   |
| 5                                       | 12      | 7         |         | 19.24  | 19.18  | 19.12   |
| 5                                       | 12      | 13        |         | 19.15  | 19.07  | 19.08   |
| 5                                       | 25      | 0         |         | 19.20  | 19.10  | 19.06   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK    | 23.78  | 23.86  | 23.72   |
| 20                                      | 1       | 49        |         | 23.72  | 23.70  | 23.65   |
| 20                                      | 1       | 99        |         | 23.76  | 23.76  | 23.72   |
| 20                                      | 50      | 0         |         | 22.83  | 22.89  | 22.74   |
| 20                                      | 50      | 24        |         | 22.93  | 22.88  | 22.84   |
| 20                                      | 50      | 50        |         | 22.89  | 22.86  | 22.79   |
| 20                                      | 100     | 0         |         | 22.92  | 22.87  | 22.81   |
| 20                                      | 1       | 0         | 16-QAM  | 22.84  | 22.90  | 22.80   |
| 20                                      | 1       | 49        |         | 22.81  | 22.76  | 22.72   |
| 20                                      | 1       | 99        |         | 22.82  | 22.84  | 22.80   |
| 20                                      | 50      | 0         |         | 21.86  | 21.92  | 21.76   |
| 20                                      | 50      | 24        |         | 21.96  | 21.90  | 21.86   |
| 20                                      | 50      | 50        |         | 21.93  | 21.89  | 21.85   |
| 20                                      | 100     | 0         |         | 21.93  | 21.89  | 21.85   |
| 20                                      | 1       | 0         | 64-QAM  | 21.52  | 21.48  | 21.43   |
| 20                                      | 1       | 49        |         | 21.50  | 21.52  | 21.45   |
| 20                                      | 1       | 99        |         | 21.58  | 21.56  | 21.48   |
| 20                                      | 50      | 0         |         | 20.88  | 20.94  | 20.78   |
| 20                                      | 50      | 24        |         | 20.98  | 20.91  | 20.85   |
| 20                                      | 50      | 50        |         | 20.93  | 20.90  | 20.85   |
| 20                                      | 100     | 0         |         | 20.95  | 20.92  | 20.84   |
| 20                                      | 1       | 0         | 256-QAM | 19.07  | 18.98  | 18.56   |
| 20                                      | 1       | 49        |         | 18.89  | 18.82  | 18.53   |
| 20                                      | 1       | 99        |         | 18.98  | 18.84  | 18.59   |
| 20                                      | 50      | 0         |         | 19.26  | 19.25  | 18.82   |
| 20                                      | 50      | 24        |         | 19.28  | 19.18  | 18.90   |
| 20                                      | 50      | 50        |         | 19.24  | 19.13  | 18.89   |
| 20                                      | 100     | 0         |         | 19.24  | 19.14  | 18.84   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.72  | 23.80  | 23.69   |
| 15                                      | 1       | 37        |         | 23.65  | 23.67  | 23.60   |
| 15                                      | 1       | 74        |         | 23.73  | 23.76  | 23.71   |
| 15                                      | 36      | 0         |         | 22.75  | 22.80  | 22.72   |
| 15                                      | 36      | 20        |         | 22.83  | 22.84  | 22.82   |
| 15                                      | 36      | 39        |         | 22.84  | 22.76  | 22.78   |
| 15                                      | 75      | 0         |         | 22.89  | 22.84  | 22.72   |
| 15                                      | 1       | 0         | 16-QAM  | 22.83  | 22.83  | 22.79   |
| 15                                      | 1       | 37        |         | 22.81  | 22.70  | 22.62   |
| 15                                      | 1       | 74        |         | 22.78  | 22.79  | 22.71   |
| 15                                      | 36      | 0         |         | 21.76  | 21.89  | 21.66   |
| 15                                      | 36      | 20        |         | 21.91  | 21.80  | 21.76   |
| 15                                      | 36      | 39        |         | 21.85  | 21.85  | 21.85   |
| 15                                      | 75      | 0         |         | 21.83  | 21.82  | 21.79   |
| 15                                      | 1       | 0         | 64-QAM  | 21.42  | 21.46  | 21.43   |
| 15                                      | 1       | 37        |         | 21.50  | 21.42  | 21.38   |
| 15                                      | 1       | 74        |         | 21.57  | 21.48  | 21.39   |
| 15                                      | 36      | 0         |         | 20.88  | 20.92  | 20.74   |
| 15                                      | 36      | 20        |         | 20.94  | 20.91  | 20.83   |
| 15                                      | 36      | 39        |         | 20.84  | 20.90  | 20.83   |
| 15                                      | 75      | 0         |         | 20.85  | 20.82  | 20.81   |
| 15                                      | 1       | 0         | 256-QAM | 19.01  | 18.93  | 18.48   |
| 15                                      | 1       | 37        |         | 18.79  | 18.81  | 18.45   |
| 15                                      | 1       | 74        |         | 18.97  | 18.78  | 18.52   |
| 15                                      | 36      | 0         |         | 19.22  | 19.24  | 18.81   |
| 15                                      | 36      | 20        |         | 19.23  | 19.16  | 18.86   |
| 15                                      | 36      | 39        |         | 19.14  | 19.11  | 18.87   |
| 15                                      | 75      | 0         |         | 19.22  | 19.11  | 18.74   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.76  | 23.76  | 23.69   |
| 10                                      | 1       | 25        |         | 23.63  | 23.64  | 23.55   |
| 10                                      | 1       | 49        |         | 23.70  | 23.66  | 23.65   |
| 10                                      | 25      | 0         |         | 22.74  | 22.86  | 22.64   |
| 10                                      | 25      | 12        |         | 22.85  | 22.88  | 22.77   |
| 10                                      | 25      | 25        |         | 22.86  | 22.83  | 22.76   |
| 10                                      | 50      | 0         |         | 22.87  | 22.82  | 22.75   |
| 10                                      | 1       | 0         | 16-QAM  | 22.83  | 22.84  | 22.74   |
| 10                                      | 1       | 25        |         | 22.73  | 22.67  | 22.68   |
| 10                                      | 1       | 49        |         | 22.72  | 22.75  | 22.73   |
| 10                                      | 25      | 0         |         | 21.82  | 21.89  | 21.72   |
| 10                                      | 25      | 12        |         | 21.88  | 21.86  | 21.81   |
| 10                                      | 25      | 25        |         | 21.85  | 21.81  | 21.85   |
| 10                                      | 50      | 0         |         | 21.89  | 21.86  | 21.79   |
| 10                                      | 1       | 0         | 64-QAM  | 21.49  | 21.47  | 21.41   |
| 10                                      | 1       | 25        |         | 21.47  | 21.51  | 21.36   |
| 10                                      | 1       | 49        |         | 21.50  | 21.54  | 21.40   |
| 10                                      | 25      | 0         |         | 20.79  | 20.93  | 20.68   |
| 10                                      | 25      | 12        |         | 20.88  | 20.86  | 20.75   |
| 10                                      | 25      | 25        |         | 20.85  | 20.89  | 20.84   |
| 10                                      | 50      | 0         |         | 20.86  | 20.83  | 20.84   |
| 10                                      | 1       | 0         | 256-QAM | 19.01  | 18.92  | 18.46   |
| 10                                      | 1       | 25        |         | 18.87  | 18.73  | 18.47   |
| 10                                      | 1       | 49        |         | 18.88  | 18.77  | 18.49   |
| 10                                      | 25      | 0         |         | 19.23  | 19.17  | 18.73   |
| 10                                      | 25      | 12        |         | 19.28  | 19.09  | 18.85   |
| 10                                      | 25      | 25        |         | 19.21  | 19.05  | 18.81   |
| 10                                      | 50      | 0         |         | 19.21  | 19.11  | 18.83   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.73  | 23.74  | 23.67   |
| 5                                       | 1       | 12        |         | 23.71  | 23.68  | 23.55   |
| 5                                       | 1       | 24        |         | 23.66  | 23.66  | 23.66   |
| 5                                       | 12      | 0         |         | 22.79  | 22.81  | 22.65   |
| 5                                       | 12      | 7         |         | 22.91  | 22.83  | 22.81   |
| 5                                       | 12      | 13        |         | 22.89  | 22.82  | 22.69   |
| 5                                       | 25      | 0         |         | 22.86  | 22.79  | 22.80   |
| 5                                       | 1       | 0         | 16-QAM  | 22.74  | 22.86  | 22.80   |
| 5                                       | 1       | 12        |         | 22.73  | 22.68  | 22.72   |
| 5                                       | 1       | 24        |         | 22.80  | 22.79  | 22.80   |
| 5                                       | 12      | 0         |         | 21.83  | 21.86  | 21.75   |
| 5                                       | 12      | 7         |         | 21.88  | 21.85  | 21.81   |
| 5                                       | 12      | 13        |         | 21.83  | 21.79  | 21.77   |
| 5                                       | 25      | 0         |         | 21.93  | 21.81  | 21.83   |
| 5                                       | 1       | 0         | 64-QAM  | 21.47  | 21.47  | 21.36   |
| 5                                       | 1       | 12        |         | 21.48  | 21.47  | 21.44   |
| 5                                       | 1       | 24        |         | 21.58  | 21.50  | 21.41   |
| 5                                       | 12      | 0         |         | 20.79  | 20.87  | 20.69   |
| 5                                       | 12      | 7         |         | 20.94  | 20.89  | 20.84   |
| 5                                       | 12      | 13        |         | 20.87  | 20.86  | 20.84   |
| 5                                       | 25      | 0         |         | 20.95  | 20.84  | 20.76   |
| 5                                       | 1       | 0         | 256-QAM | 18.98  | 18.95  | 18.47   |
| 5                                       | 1       | 12        |         | 18.85  | 18.78  | 18.53   |
| 5                                       | 1       | 24        |         | 18.94  | 18.76  | 18.55   |
| 5                                       | 12      | 0         |         | 19.20  | 19.19  | 18.75   |
| 5                                       | 12      | 7         |         | 19.19  | 19.14  | 18.83   |
| 5                                       | 12      | 13        |         | 19.23  | 19.12  | 18.81   |
| 5                                       | 25      | 0         |         | 19.15  | 19.07  | 18.78   |



| LTE Band 41 (HPUE) Maximum Average Power [dBm] |         |           |         |        |        |         |
|------------------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                       | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 20                                             | 1       | 0         | QPSK    | 25.91  | 26.05  | 25.55   |
| 20                                             | 1       | 49        |         | 25.81  | 25.76  | 25.43   |
| 20                                             | 1       | 99        |         | 25.81  | 25.77  | 25.50   |
| 20                                             | 50      | 0         |         | 25.08  | 25.09  | 24.67   |
| 20                                             | 50      | 24        |         | 25.17  | 25.07  | 24.74   |
| 20                                             | 50      | 50        |         | 25.10  | 24.98  | 24.72   |
| 20                                             | 100     | 0         |         | 25.14  | 25.04  | 24.74   |
| 20                                             | 1       | 0         | 16-QAM  | 25.34  | 25.36  | 24.90   |
| 20                                             | 1       | 49        |         | 25.22  | 25.18  | 24.87   |
| 20                                             | 1       | 99        |         | 25.17  | 25.14  | 24.85   |
| 20                                             | 50      | 0         |         | 24.14  | 24.14  | 23.72   |
| 20                                             | 50      | 24        |         | 24.20  | 24.10  | 23.78   |
| 20                                             | 50      | 50        |         | 24.13  | 24.03  | 23.78   |
| 20                                             | 100     | 0         |         | 24.21  | 24.08  | 23.77   |
| 20                                             | 1       | 0         | 64-QAM  | 23.99  | 23.96  | 23.66   |
| 20                                             | 1       | 49        |         | 23.90  | 23.92  | 23.58   |
| 20                                             | 1       | 99        |         | 23.96  | 23.87  | 23.62   |
| 20                                             | 50      | 0         |         | 23.14  | 23.17  | 22.73   |
| 20                                             | 50      | 24        |         | 23.19  | 23.11  | 22.78   |
| 20                                             | 50      | 50        |         | 23.16  | 23.02  | 22.77   |
| 20                                             | 100     | 0         |         | 23.21  | 23.09  | 22.77   |
| 20                                             | 1       | 0         | 256-QAM | 21.23  | 21.17  | 20.79   |
| 20                                             | 1       | 49        |         | 20.98  | 20.97  | 20.69   |
| 20                                             | 1       | 99        |         | 21.08  | 20.96  | 20.73   |
| 20                                             | 50      | 0         |         | 21.24  | 21.23  | 20.80   |
| 20                                             | 50      | 24        |         | 21.26  | 21.20  | 20.87   |
| 20                                             | 50      | 50        |         | 21.22  | 21.10  | 20.85   |
| 20                                             | 100     | 0         |         | 21.21  | 21.15  | 20.86   |



| LTE Band 41 (HPUE) Maximum Average Power [dBm] |         |           |         |        |        |         |
|------------------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                       | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                             | 1       | 0         | QPSK    | 26.03  | 25.99  | 25.64   |
| 15                                             | 1       | 37        |         | 25.95  | 25.93  | 25.60   |
| 15                                             | 1       | 74        |         | 25.94  | 25.96  | 25.69   |
| 15                                             | 36      | 0         |         | 25.07  | 25.09  | 24.70   |
| 15                                             | 36      | 20        |         | 25.15  | 25.04  | 24.69   |
| 15                                             | 36      | 39        |         | 25.11  | 25.00  | 24.74   |
| 15                                             | 75      | 0         |         | 25.13  | 25.05  | 24.68   |
| 15                                             | 1       | 0         | 16-QAM  | 25.30  | 25.25  | 24.95   |
| 15                                             | 1       | 37        |         | 25.20  | 25.14  | 24.83   |
| 15                                             | 1       | 74        |         | 25.17  | 25.22  | 24.89   |
| 15                                             | 36      | 0         |         | 24.08  | 24.10  | 23.70   |
| 15                                             | 36      | 20        |         | 24.12  | 24.03  | 23.67   |
| 15                                             | 36      | 39        |         | 24.09  | 23.99  | 23.72   |
| 15                                             | 75      | 0         |         | 24.17  | 24.07  | 23.69   |
| 15                                             | 1       | 0         | 64-QAM  | 23.96  | 23.96  | 23.55   |
| 15                                             | 1       | 37        |         | 24.00  | 23.88  | 23.61   |
| 15                                             | 1       | 74        |         | 23.97  | 23.95  | 23.67   |
| 15                                             | 36      | 0         |         | 23.10  | 23.14  | 22.71   |
| 15                                             | 36      | 20        |         | 23.17  | 23.08  | 22.69   |
| 15                                             | 36      | 39        |         | 23.12  | 23.02  | 22.75   |
| 15                                             | 75      | 0         |         | 23.20  | 23.09  | 22.71   |
| 15                                             | 1       | 0         | 256-QAM | 21.23  | 21.11  | 20.75   |
| 15                                             | 1       | 37        |         | 20.91  | 20.96  | 20.68   |
| 15                                             | 1       | 74        |         | 20.99  | 20.95  | 20.69   |
| 15                                             | 36      | 0         |         | 21.24  | 21.22  | 20.75   |
| 15                                             | 36      | 20        |         | 21.21  | 21.10  | 20.85   |
| 15                                             | 36      | 39        |         | 21.16  | 21.10  | 20.78   |
| 15                                             | 75      | 0         |         | 21.21  | 21.07  | 20.76   |



| LTE Band 41 (HPUE) Maximum Average Power [dBm] |         |           |         |        |        |         |
|------------------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                       | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                             | 1       | 0         | QPSK    | 25.99  | 25.98  | 25.54   |
| 10                                             | 1       | 25        |         | 25.87  | 25.83  | 25.54   |
| 10                                             | 1       | 49        |         | 25.91  | 25.96  | 25.60   |
| 10                                             | 25      | 0         |         | 25.06  | 25.04  | 24.64   |
| 10                                             | 25      | 12        |         | 25.10  | 24.94  | 24.62   |
| 10                                             | 25      | 25        |         | 25.11  | 24.90  | 24.70   |
| 10                                             | 50      | 0         |         | 25.03  | 25.05  | 24.67   |
| 10                                             | 1       | 0         | 16-QAM  | 25.20  | 25.16  | 24.87   |
| 10                                             | 1       | 25        |         | 25.14  | 25.07  | 24.82   |
| 10                                             | 1       | 49        |         | 25.17  | 25.14  | 24.83   |
| 10                                             | 25      | 0         |         | 24.06  | 24.00  | 23.60   |
| 10                                             | 25      | 12        |         | 24.06  | 23.98  | 23.67   |
| 10                                             | 25      | 25        |         | 24.05  | 23.90  | 23.66   |
| 10                                             | 50      | 0         |         | 24.16  | 23.97  | 23.65   |
| 10                                             | 1       | 0         | 64-QAM  | 23.94  | 23.93  | 23.48   |
| 10                                             | 1       | 25        |         | 23.95  | 23.87  | 23.52   |
| 10                                             | 1       | 49        |         | 23.96  | 23.90  | 23.60   |
| 10                                             | 25      | 0         |         | 23.00  | 23.05  | 22.70   |
| 10                                             | 25      | 12        |         | 23.08  | 23.06  | 22.67   |
| 10                                             | 25      | 25        |         | 23.05  | 22.95  | 22.72   |
| 10                                             | 50      | 0         |         | 23.13  | 23.06  | 22.62   |
| 10                                             | 1       | 0         | 256-QAM | 21.23  | 21.11  | 20.79   |
| 10                                             | 1       | 25        |         | 20.89  | 20.94  | 20.65   |
| 10                                             | 1       | 49        |         | 21.06  | 20.93  | 20.66   |
| 10                                             | 25      | 0         |         | 21.24  | 21.19  | 20.75   |
| 10                                             | 25      | 12        |         | 21.25  | 21.11  | 20.84   |
| 10                                             | 25      | 25        |         | 21.18  | 21.10  | 20.82   |
| 10                                             | 50      | 0         |         | 21.18  | 21.15  | 20.85   |



| LTE Band 41 (HPUE) Maximum Average Power [dBm] |         |           |         |        |        |         |
|------------------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                       | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                              | 1       | 0         | QPSK    | 25.95  | 25.94  | 25.64   |
| 5                                              | 1       | 12        |         | 25.87  | 25.93  | 25.60   |
| 5                                              | 1       | 24        |         | 25.84  | 25.96  | 25.60   |
| 5                                              | 12      | 0         |         | 25.05  | 25.01  | 24.66   |
| 5                                              | 12      | 7         |         | 25.13  | 25.01  | 24.66   |
| 5                                              | 12      | 13        |         | 25.06  | 24.90  | 24.65   |
| 5                                              | 25      | 0         |         | 25.06  | 25.01  | 24.65   |
| 5                                              | 1       | 0         | 16-QAM  | 25.24  | 25.22  | 24.88   |
| 5                                              | 1       | 12        |         | 25.10  | 25.10  | 24.82   |
| 5                                              | 1       | 24        |         | 25.07  | 25.13  | 24.85   |
| 5                                              | 12      | 0         |         | 23.98  | 24.01  | 23.62   |
| 5                                              | 12      | 7         |         | 24.08  | 23.99  | 23.65   |
| 5                                              | 12      | 13        |         | 24.09  | 23.95  | 23.71   |
| 5                                              | 25      | 0         |         | 24.17  | 24.03  | 23.67   |
| 5                                              | 1       | 0         | 64-QAM  | 23.87  | 23.94  | 23.53   |
| 5                                              | 1       | 12        |         | 23.92  | 23.87  | 23.55   |
| 5                                              | 1       | 24        |         | 23.91  | 23.88  | 23.66   |
| 5                                              | 12      | 0         |         | 23.01  | 23.08  | 22.68   |
| 5                                              | 12      | 7         |         | 23.07  | 23.07  | 22.68   |
| 5                                              | 12      | 13        |         | 23.08  | 22.94  | 22.66   |
| 5                                              | 25      | 0         |         | 23.20  | 23.09  | 22.70   |
| 5                                              | 1       | 0         | 256-QAM | 21.13  | 21.17  | 20.73   |
| 5                                              | 1       | 12        |         | 20.96  | 20.90  | 20.68   |
| 5                                              | 1       | 24        |         | 21.01  | 20.86  | 20.69   |
| 5                                              | 12      | 0         |         | 21.17  | 21.21  | 20.76   |
| 5                                              | 12      | 7         |         | 21.24  | 21.19  | 20.85   |
| 5                                              | 12      | 13        |         | 21.18  | 21.05  | 20.84   |
| 5                                              | 25      | 0         |         | 21.15  | 21.08  | 20.78   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |              |        |         |
|-----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                      | 1       | 0         | QPSK    | <b>23.86</b> | 23.58  | 23.53   |
| 20                                      | 1       | 49        |         | 23.69        | 23.39  | 23.44   |
| 20                                      | 1       | 99        |         | 23.60        | 23.40  | 23.37   |
| 20                                      | 50      | 0         |         | 22.95        | 22.60  | 22.62   |
| 20                                      | 50      | 24        |         | 22.89        | 22.55  | 22.63   |
| 20                                      | 50      | 50        |         | 22.75        | 22.50  | 22.57   |
| 20                                      | 100     | 0         |         | 22.77        | 22.56  | 22.58   |
| 20                                      | 1       | 0         | 16-QAM  | 22.99        | 22.71  | 22.68   |
| 20                                      | 1       | 49        |         | 22.87        | 22.54  | 22.62   |
| 20                                      | 1       | 99        |         | 22.76        | 22.56  | 22.48   |
| 20                                      | 50      | 0         |         | 21.75        | 21.43  | 21.43   |
| 20                                      | 50      | 24        |         | 21.71        | 21.37  | 21.36   |
| 20                                      | 50      | 50        |         | 21.54        | 21.31  | 21.38   |
| 20                                      | 100     | 0         |         | 21.59        | 21.35  | 21.36   |
| 20                                      | 1       | 0         | 64-QAM  | 21.94        | 21.63  | 21.57   |
| 20                                      | 1       | 49        |         | 21.73        | 21.44  | 21.43   |
| 20                                      | 1       | 99        |         | 21.57        | 21.43  | 21.42   |
| 20                                      | 50      | 0         |         | 20.77        | 20.44  | 20.45   |
| 20                                      | 50      | 24        |         | 20.75        | 20.39  | 20.44   |
| 20                                      | 50      | 50        |         | 20.62        | 20.33  | 20.43   |
| 20                                      | 100     | 0         |         | 20.61        | 20.37  | 20.41   |
| 20                                      | 1       | 0         | 256-QAM | 18.95        | 18.75  | 18.74   |
| 20                                      | 1       | 49        |         | 18.86        | 18.46  | 18.44   |
| 20                                      | 1       | 99        |         | 18.91        | 18.33  | 18.49   |
| 20                                      | 50      | 0         |         | 18.79        | 18.50  | 18.53   |
| 20                                      | 50      | 24        |         | 18.81        | 18.44  | 18.52   |
| 20                                      | 50      | 50        |         | 18.72        | 18.39  | 18.49   |
| 20                                      | 100     | 0         |         | 18.75        | 18.58  | 18.53   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.81  | 23.55  | 23.50   |
| 15                                      | 1       | 37        |         | 23.69  | 23.36  | 23.40   |
| 15                                      | 1       | 74        |         | 23.53  | 23.34  | 23.31   |
| 15                                      | 36      | 0         |         | 22.91  | 22.56  | 22.61   |
| 15                                      | 36      | 20        |         | 22.82  | 22.47  | 22.58   |
| 15                                      | 36      | 39        |         | 22.65  | 22.46  | 22.57   |
| 15                                      | 75      | 0         |         | 22.69  | 22.49  | 22.55   |
| 15                                      | 1       | 0         | 16-QAM  | 22.97  | 22.69  | 22.63   |
| 15                                      | 1       | 37        |         | 22.80  | 22.45  | 22.62   |
| 15                                      | 1       | 74        |         | 22.69  | 22.54  | 22.47   |
| 15                                      | 36      | 0         |         | 21.67  | 21.43  | 21.38   |
| 15                                      | 36      | 20        |         | 21.66  | 21.32  | 21.29   |
| 15                                      | 36      | 39        |         | 21.53  | 21.30  | 21.32   |
| 15                                      | 75      | 0         |         | 21.51  | 21.26  | 21.32   |
| 15                                      | 1       | 0         | 64-QAM  | 21.84  | 21.57  | 21.48   |
| 15                                      | 1       | 37        |         | 21.66  | 21.39  | 21.39   |
| 15                                      | 1       | 74        |         | 21.50  | 21.34  | 21.36   |
| 15                                      | 36      | 0         |         | 20.75  | 20.38  | 20.37   |
| 15                                      | 36      | 20        |         | 20.74  | 20.30  | 20.34   |
| 15                                      | 36      | 39        |         | 20.53  | 20.30  | 20.33   |
| 15                                      | 75      | 0         |         | 20.60  | 20.30  | 20.33   |
| 15                                      | 1       | 0         | 256-QAM | 18.91  | 18.72  | 18.67   |
| 15                                      | 1       | 37        |         | 18.77  | 18.37  | 18.34   |
| 15                                      | 1       | 74        |         | 18.84  | 18.32  | 18.41   |
| 15                                      | 36      | 0         |         | 18.71  | 18.49  | 18.43   |
| 15                                      | 36      | 20        |         | 18.76  | 18.39  | 18.47   |
| 15                                      | 36      | 39        |         | 18.66  | 18.39  | 18.47   |
| 15                                      | 75      | 0         |         | 18.71  | 18.52  | 18.53   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.81  | 23.54  | 23.43   |
| 10                                      | 1       | 25        |         | 23.61  | 23.35  | 23.36   |
| 10                                      | 1       | 49        |         | 23.58  | 23.32  | 23.36   |
| 10                                      | 25      | 0         |         | 22.94  | 22.56  | 22.60   |
| 10                                      | 25      | 12        |         | 22.89  | 22.52  | 22.62   |
| 10                                      | 25      | 25        |         | 22.67  | 22.49  | 22.51   |
| 10                                      | 50      | 0         |         | 22.74  | 22.46  | 22.54   |
| 10                                      | 1       | 0         | 16-QAM  | 22.97  | 22.68  | 22.61   |
| 10                                      | 1       | 25        |         | 22.86  | 22.54  | 22.52   |
| 10                                      | 1       | 49        |         | 22.66  | 22.54  | 22.38   |
| 10                                      | 25      | 0         |         | 21.66  | 21.39  | 21.40   |
| 10                                      | 25      | 12        |         | 21.65  | 21.30  | 21.28   |
| 10                                      | 25      | 25        |         | 21.44  | 21.28  | 21.33   |
| 10                                      | 50      | 0         |         | 21.54  | 21.35  | 21.31   |
| 10                                      | 1       | 0         | 64-QAM  | 21.90  | 21.54  | 21.53   |
| 10                                      | 1       | 25        |         | 21.65  | 21.35  | 21.33   |
| 10                                      | 1       | 49        |         | 21.50  | 21.43  | 21.35   |
| 10                                      | 25      | 0         |         | 20.75  | 20.40  | 20.37   |
| 10                                      | 25      | 12        |         | 20.69  | 20.38  | 20.40   |
| 10                                      | 25      | 25        |         | 20.52  | 20.31  | 20.43   |
| 10                                      | 50      | 0         |         | 20.61  | 20.34  | 20.32   |
| 10                                      | 1       | 0         | 256-QAM | 18.88  | 18.68  | 18.71   |
| 10                                      | 1       | 25        |         | 18.85  | 18.39  | 18.44   |
| 10                                      | 1       | 49        |         | 18.86  | 18.32  | 18.44   |
| 10                                      | 25      | 0         |         | 18.77  | 18.50  | 18.53   |
| 10                                      | 25      | 12        |         | 18.81  | 18.35  | 18.50   |
| 10                                      | 25      | 25        |         | 18.72  | 18.39  | 18.49   |
| 10                                      | 50      | 0         |         | 18.74  | 18.48  | 18.50   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.85  | 23.58  | 23.49   |
| 5                                       | 1       | 12        |         | 23.68  | 23.37  | 23.38   |
| 5                                       | 1       | 24        |         | 23.50  | 23.38  | 23.28   |
| 5                                       | 12      | 0         |         | 22.89  | 22.51  | 22.53   |
| 5                                       | 12      | 7         |         | 22.85  | 22.51  | 22.59   |
| 5                                       | 12      | 13        |         | 22.73  | 22.42  | 22.57   |
| 5                                       | 25      | 0         |         | 22.76  | 22.54  | 22.55   |
| 5                                       | 1       | 0         | 16-QAM  | 22.94  | 22.66  | 22.66   |
| 5                                       | 1       | 12        |         | 22.83  | 22.44  | 22.57   |
| 5                                       | 1       | 24        |         | 22.70  | 22.46  | 22.41   |
| 5                                       | 12      | 0         |         | 21.66  | 21.36  | 21.34   |
| 5                                       | 12      | 7         |         | 21.66  | 21.28  | 21.34   |
| 5                                       | 12      | 13        |         | 21.50  | 21.26  | 21.37   |
| 5                                       | 25      | 0         |         | 21.52  | 21.27  | 21.36   |
| 5                                       | 1       | 0         | 64-QAM  | 21.87  | 21.55  | 21.49   |
| 5                                       | 1       | 12        |         | 21.64  | 21.43  | 21.36   |
| 5                                       | 1       | 24        |         | 21.53  | 21.34  | 21.37   |
| 5                                       | 12      | 0         |         | 20.74  | 20.43  | 20.41   |
| 5                                       | 12      | 7         |         | 20.65  | 20.39  | 20.36   |
| 5                                       | 12      | 13        |         | 20.54  | 20.31  | 20.34   |
| 5                                       | 25      | 0         |         | 20.59  | 20.36  | 20.38   |
| 5                                       | 1       | 0         | 256-QAM | 18.90  | 18.68  | 18.70   |
| 5                                       | 1       | 12        |         | 18.82  | 18.46  | 18.43   |
| 5                                       | 1       | 24        |         | 18.82  | 18.26  | 18.41   |
| 5                                       | 12      | 0         |         | 18.69  | 18.47  | 18.48   |
| 5                                       | 12      | 7         |         | 18.74  | 18.34  | 18.51   |
| 5                                       | 12      | 13        |         | 18.65  | 18.37  | 18.45   |
| 5                                       | 25      | 0         |         | 18.74  | 18.49  | 18.52   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK    | 23.85  | 23.54  | 23.44   |
| 3                                       | 1       | 8         |         | 23.67  | 23.36  | 23.43   |
| 3                                       | 1       | 14        |         | 23.57  | 23.30  | 23.29   |
| 3                                       | 8       | 0         |         | 22.90  | 22.57  | 22.61   |
| 3                                       | 8       | 4         |         | 22.84  | 22.48  | 22.58   |
| 3                                       | 8       | 7         |         | 22.65  | 22.48  | 22.49   |
| 3                                       | 15      | 0         |         | 22.73  | 22.51  | 22.57   |
| 3                                       | 1       | 0         | 16-QAM  | 22.89  | 22.62  | 22.59   |
| 3                                       | 1       | 8         |         | 22.82  | 22.51  | 22.60   |
| 3                                       | 1       | 14        |         | 22.72  | 22.47  | 22.46   |
| 3                                       | 8       | 0         |         | 21.68  | 21.33  | 21.34   |
| 3                                       | 8       | 4         |         | 21.69  | 21.30  | 21.36   |
| 3                                       | 8       | 7         |         | 21.45  | 21.24  | 21.32   |
| 3                                       | 15      | 0         |         | 21.52  | 21.28  | 21.26   |
| 3                                       | 1       | 0         | 64-QAM  | 21.90  | 21.61  | 21.52   |
| 3                                       | 1       | 8         |         | 21.63  | 21.40  | 21.43   |
| 3                                       | 1       | 14        |         | 21.56  | 21.43  | 21.40   |
| 3                                       | 8       | 0         |         | 20.67  | 20.41  | 20.40   |
| 3                                       | 8       | 4         |         | 20.67  | 20.32  | 20.42   |
| 3                                       | 8       | 7         |         | 20.62  | 20.32  | 20.35   |
| 3                                       | 15      | 0         |         | 20.61  | 20.32  | 20.33   |
| 3                                       | 1       | 0         | 256-QAM | 18.87  | 18.65  | 18.74   |
| 3                                       | 1       | 8         |         | 18.82  | 18.46  | 18.42   |
| 3                                       | 1       | 14        |         | 18.82  | 18.28  | 18.41   |
| 3                                       | 8       | 0         |         | 18.74  | 18.49  | 18.45   |
| 3                                       | 8       | 4         |         | 18.75  | 18.40  | 18.42   |
| 3                                       | 8       | 7         |         | 18.70  | 18.37  | 18.48   |
| 3                                       | 15      | 0         |         | 18.74  | 18.55  | 18.47   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK    | 23.83  | 23.58  | 23.45   |
| 1.4                                     | 1       | 3         |         | 23.65  | 23.35  | 23.35   |
| 1.4                                     | 1       | 5         |         | 23.51  | 23.38  | 23.28   |
| 1.4                                     | 3       | 0         |         | 23.77  | 23.52  | 23.53   |
| 1.4                                     | 3       | 1         |         | 23.61  | 23.33  | 23.36   |
| 1.4                                     | 3       | 3         |         | 23.56  | 23.32  | 23.29   |
| 1.4                                     | 6       | 0         |         | 22.87  | 22.57  | 22.62   |
| 1.4                                     | 1       | 0         | 16-QAM  | 22.88  | 22.55  | 22.54   |
| 1.4                                     | 1       | 3         |         | 22.72  | 22.40  | 22.47   |
| 1.4                                     | 1       | 5         |         | 22.72  | 22.46  | 22.51   |
| 1.4                                     | 3       | 0         |         | 22.96  | 22.68  | 22.60   |
| 1.4                                     | 3       | 1         |         | 22.79  | 22.45  | 22.58   |
| 1.4                                     | 3       | 3         |         | 22.71  | 22.46  | 22.42   |
| 1.4                                     | 6       | 0         |         | 21.75  | 21.35  | 21.33   |
| 1.4                                     | 1       | 0         | 64-QAM  | 21.71  | 21.34  | 21.36   |
| 1.4                                     | 1       | 3         |         | 21.53  | 21.25  | 21.34   |
| 1.4                                     | 1       | 5         |         | 21.52  | 21.25  | 21.27   |
| 1.4                                     | 3       | 0         |         | 21.84  | 21.62  | 21.51   |
| 1.4                                     | 3       | 1         |         | 21.66  | 21.40  | 21.35   |
| 1.4                                     | 3       | 3         |         | 21.49  | 21.33  | 21.35   |
| 1.4                                     | 6       | 0         |         | 20.71  | 20.34  | 20.39   |
| 1.4                                     | 1       | 0         | 256-QAM | 18.79  | 18.34  | 18.43   |
| 1.4                                     | 1       | 3         |         | 18.68  | 18.34  | 18.49   |
| 1.4                                     | 1       | 5         |         | 18.65  | 18.57  | 18.48   |
| 1.4                                     | 3       | 0         |         | 18.87  | 18.65  | 18.68   |
| 1.4                                     | 3       | 1         |         | 18.81  | 18.43  | 18.43   |
| 1.4                                     | 3       | 3         |         | 18.91  | 18.24  | 18.42   |
| 1.4                                     | 6       | 0         |         | 18.76  | 18.41  | 18.51   |



| LTE Band 71 Maximum Average Power [dBm] |         |           |         |              |        |         |
|-----------------------------------------|---------|-----------|---------|--------------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest       | Middle | Highest |
| 20                                      | 1       | 0         | QPSK    | <b>23.92</b> | 23.74  | 23.76   |
| 20                                      | 1       | 49        |         | 23.79        | 23.80  | 23.84   |
| 20                                      | 1       | 99        |         | 23.81        | 23.91  | 23.83   |
| 20                                      | 50      | 0         |         | 22.91        | 22.85  | 22.83   |
| 20                                      | 50      | 24        |         | 22.94        | 22.89  | 22.92   |
| 20                                      | 50      | 50        |         | 22.93        | 22.98  | 22.99   |
| 20                                      | 100     | 0         |         | 22.91        | 22.89  | 22.96   |
| 20                                      | 1       | 0         | 16-QAM  | 22.93        | 22.83  | 22.78   |
| 20                                      | 1       | 49        |         | 22.86        | 22.86  | 22.92   |
| 20                                      | 1       | 99        |         | 22.85        | 22.92  | 22.86   |
| 20                                      | 50      | 0         |         | 21.60        | 21.53  | 21.56   |
| 20                                      | 50      | 24        |         | 21.65        | 21.59  | 21.61   |
| 20                                      | 50      | 50        |         | 21.64        | 21.70  | 21.71   |
| 20                                      | 100     | 0         |         | 21.63        | 21.57  | 21.67   |
| 20                                      | 1       | 0         | 64-QAM  | 21.77        | 21.67  | 21.63   |
| 20                                      | 1       | 49        |         | 21.66        | 21.74  | 21.75   |
| 20                                      | 1       | 99        |         | 21.78        | 21.85  | 21.74   |
| 20                                      | 50      | 0         |         | 20.63        | 20.55  | 20.55   |
| 20                                      | 50      | 24        |         | 20.67        | 20.61  | 20.62   |
| 20                                      | 50      | 50        |         | 20.69        | 20.71  | 20.72   |
| 20                                      | 100     | 0         |         | 20.65        | 20.59  | 20.68   |
| 20                                      | 1       | 0         | 256-QAM | 19.19        | 18.95  | 19.00   |
| 20                                      | 1       | 49        |         | 19.10        | 19.02  | 19.02   |
| 20                                      | 1       | 99        |         | 19.12        | 19.06  | 19.05   |
| 20                                      | 50      | 0         |         | 19.06        | 18.98  | 19.02   |
| 20                                      | 50      | 24        |         | 19.12        | 19.01  | 19.07   |
| 20                                      | 50      | 50        |         | 19.09        | 19.00  | 19.02   |
| 20                                      | 100     | 0         |         | 19.05        | 18.95  | 19.09   |



| LTE Band 71 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK    | 23.87  | 23.71  | 23.75   |
| 15                                      | 1       | 37        |         | 23.72  | 23.71  | 23.74   |
| 15                                      | 1       | 74        |         | 23.75  | 23.84  | 23.74   |
| 15                                      | 36      | 0         |         | 22.81  | 22.80  | 22.82   |
| 15                                      | 36      | 20        |         | 22.86  | 22.82  | 22.90   |
| 15                                      | 36      | 39        |         | 22.84  | 22.94  | 22.96   |
| 15                                      | 75      | 0         |         | 22.85  | 22.83  | 22.91   |
| 15                                      | 1       | 0         | 16-QAM  | 22.91  | 22.75  | 22.73   |
| 15                                      | 1       | 37        |         | 22.84  | 22.83  | 22.91   |
| 15                                      | 1       | 74        |         | 22.82  | 22.91  | 22.77   |
| 15                                      | 36      | 0         |         | 21.58  | 21.51  | 21.52   |
| 15                                      | 36      | 20        |         | 21.60  | 21.51  | 21.61   |
| 15                                      | 36      | 39        |         | 21.62  | 21.68  | 21.61   |
| 15                                      | 75      | 0         |         | 21.59  | 21.54  | 21.58   |
| 15                                      | 1       | 0         | 64-QAM  | 21.77  | 21.58  | 21.53   |
| 15                                      | 1       | 37        |         | 21.60  | 21.70  | 21.74   |
| 15                                      | 1       | 74        |         | 21.76  | 21.85  | 21.66   |
| 15                                      | 36      | 0         |         | 20.60  | 20.52  | 20.53   |
| 15                                      | 36      | 20        |         | 20.59  | 20.51  | 20.58   |
| 15                                      | 36      | 39        |         | 20.61  | 20.71  | 20.62   |
| 15                                      | 75      | 0         |         | 20.65  | 20.54  | 20.63   |
| 15                                      | 1       | 0         | 256-QAM | 19.11  | 18.86  | 19.00   |
| 15                                      | 1       | 37        |         | 19.05  | 19.00  | 18.97   |
| 15                                      | 1       | 74        |         | 19.10  | 19.00  | 18.97   |
| 15                                      | 36      | 0         |         | 19.00  | 18.93  | 19.00   |
| 15                                      | 36      | 20        |         | 19.02  | 18.96  | 19.05   |
| 15                                      | 36      | 39        |         | 19.08  | 18.91  | 18.93   |
| 15                                      | 75      | 0         |         | 19.00  | 18.87  | 19.01   |



| LTE Band 71 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK    | 23.88  | 23.74  | 23.67   |
| 10                                      | 1       | 25        |         | 23.74  | 23.74  | 23.78   |
| 10                                      | 1       | 49        |         | 23.81  | 23.85  | 23.76   |
| 10                                      | 25      | 0         |         | 22.83  | 22.75  | 22.79   |
| 10                                      | 25      | 12        |         | 22.84  | 22.88  | 22.83   |
| 10                                      | 25      | 25        |         | 22.91  | 22.95  | 22.96   |
| 10                                      | 50      | 0         |         | 22.81  | 22.86  | 22.93   |
| 10                                      | 1       | 0         | 16-QAM  | 22.83  | 22.77  | 22.77   |
| 10                                      | 1       | 25        |         | 22.83  | 22.78  | 22.91   |
| 10                                      | 1       | 49        |         | 22.81  | 22.86  | 22.81   |
| 10                                      | 25      | 0         |         | 21.59  | 21.48  | 21.52   |
| 10                                      | 25      | 12        |         | 21.65  | 21.51  | 21.58   |
| 10                                      | 25      | 25        |         | 21.64  | 21.62  | 21.65   |
| 10                                      | 50      | 0         |         | 21.53  | 21.52  | 21.67   |
| 10                                      | 1       | 0         | 64-QAM  | 21.77  | 21.61  | 21.57   |
| 10                                      | 1       | 25        |         | 21.57  | 21.67  | 21.74   |
| 10                                      | 1       | 49        |         | 21.75  | 21.84  | 21.74   |
| 10                                      | 25      | 0         |         | 20.63  | 20.50  | 20.55   |
| 10                                      | 25      | 12        |         | 20.64  | 20.52  | 20.61   |
| 10                                      | 25      | 25        |         | 20.63  | 20.68  | 20.70   |
| 10                                      | 50      | 0         |         | 20.62  | 20.59  | 20.67   |
| 10                                      | 1       | 0         | 256-QAM | 19.16  | 18.95  | 18.98   |
| 10                                      | 1       | 25        |         | 19.02  | 19.02  | 19.01   |
| 10                                      | 1       | 49        |         | 19.02  | 18.98  | 19.05   |
| 10                                      | 25      | 0         |         | 19.05  | 18.90  | 18.95   |
| 10                                      | 25      | 12        |         | 19.03  | 18.91  | 19.07   |
| 10                                      | 25      | 25        |         | 19.05  | 18.96  | 19.01   |
| 10                                      | 50      | 0         |         | 18.98  | 18.93  | 19.03   |



| LTE Band 71 Maximum Average Power [dBm] |         |           |         |        |        |         |
|-----------------------------------------|---------|-----------|---------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod     | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK    | 23.82  | 23.68  | 23.71   |
| 5                                       | 1       | 12        |         | 23.73  | 23.80  | 23.82   |
| 5                                       | 1       | 24        |         | 23.77  | 23.88  | 23.78   |
| 5                                       | 12      | 0         |         | 22.91  | 22.81  | 22.79   |
| 5                                       | 12      | 7         |         | 22.90  | 22.86  | 22.85   |
| 5                                       | 12      | 13        |         | 22.89  | 22.88  | 22.96   |
| 5                                       | 25      | 0         |         | 22.90  | 22.84  | 22.88   |
| 5                                       | 1       | 0         | 16-QAM  | 22.84  | 22.73  | 22.72   |
| 5                                       | 1       | 12        |         | 22.79  | 22.79  | 22.88   |
| 5                                       | 1       | 24        |         | 22.84  | 22.86  | 22.80   |
| 5                                       | 12      | 0         |         | 21.50  | 21.45  | 21.53   |
| 5                                       | 12      | 7         |         | 21.61  | 21.59  | 21.53   |
| 5                                       | 12      | 13        |         | 21.60  | 21.62  | 21.69   |
| 5                                       | 25      | 0         |         | 21.54  | 21.54  | 21.65   |
| 5                                       | 1       | 0         | 64-QAM  | 21.74  | 21.67  | 21.57   |
| 5                                       | 1       | 12        |         | 21.64  | 21.66  | 21.66   |
| 5                                       | 1       | 24        |         | 21.77  | 21.78  | 21.67   |
| 5                                       | 12      | 0         |         | 20.62  | 20.54  | 20.47   |
| 5                                       | 12      | 7         |         | 20.66  | 20.56  | 20.59   |
| 5                                       | 12      | 13        |         | 20.62  | 20.64  | 20.67   |
| 5                                       | 25      | 0         |         | 20.55  | 20.59  | 20.65   |
| 5                                       | 1       | 0         | 256-QAM | 19.16  | 18.92  | 18.90   |
| 5                                       | 1       | 12        |         | 19.03  | 18.98  | 19.01   |
| 5                                       | 1       | 24        |         | 19.02  | 19.02  | 19.02   |
| 5                                       | 12      | 0         |         | 19.04  | 18.90  | 18.99   |
| 5                                       | 12      | 7         |         | 19.05  | 19.00  | 19.05   |
| 5                                       | 12      | 13        |         | 19.07  | 18.90  | 18.98   |
| 5                                       | 25      | 0         |         | 20.64  | 21.51  | 21.57   |

## LTE Band 2

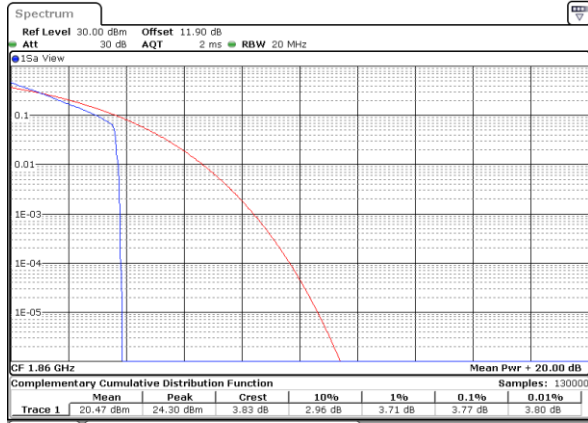
### Peak-to-Average Ratio

| Mode       | LTE Band 2 / 20MHz |         |        |         |             |
|------------|--------------------|---------|--------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM  |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB    | Full RB | Result      |
| Lowest CH  | 3.77               | 4.87    | 5.01   | 5.97    | PASS        |
| Middle CH  | 3.65               | 5.01    | 4.75   | 5.94    |             |
| Highest CH | 3.80               | 5.33    | 4.90   | 5.80    |             |
| Mode       | LTE Band 2 / 20MHz |         |        |         |             |
| Mod.       | 64QAM              |         | 256QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB    | Full RB | Result      |
| Lowest CH  | 6.32               | 6.46    | 6.52   | 6.61    | PASS        |
| Middle CH  | 6.12               | 6.55    | 7.97   | 6.61    |             |
| Highest CH | 6.32               | 6.52    | 6.67   | 6.72    |             |

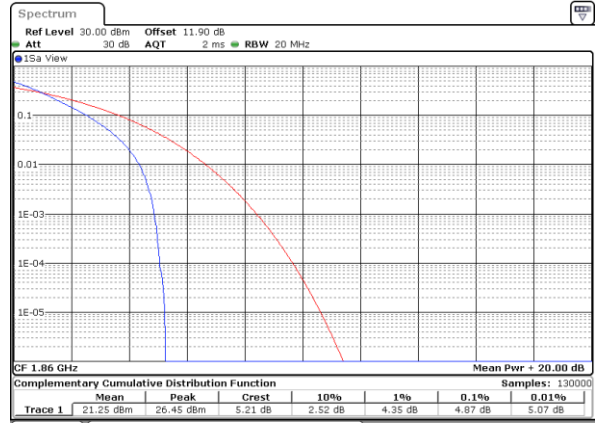


## LTE Band 2 / 20MHz / QPSK

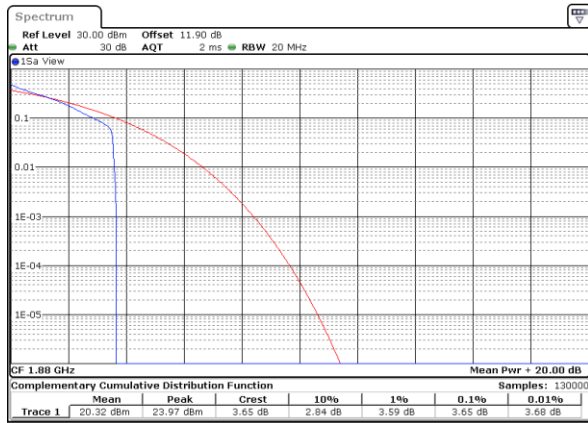
## Lowest Channel / 1RB



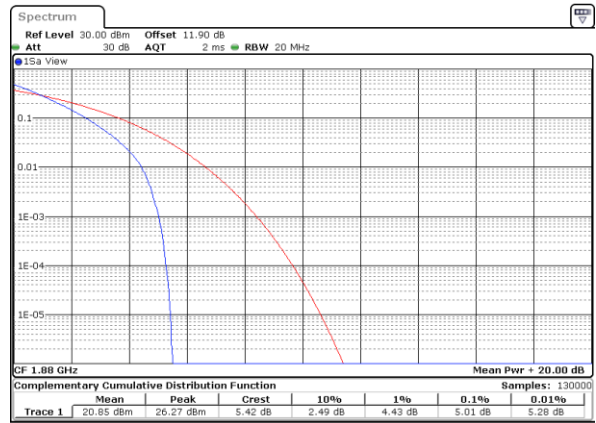
## Lowest Channel / Full RB



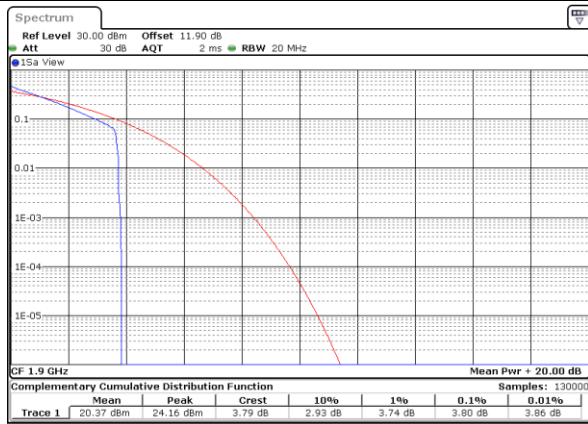
## Middle Channel / 1RB



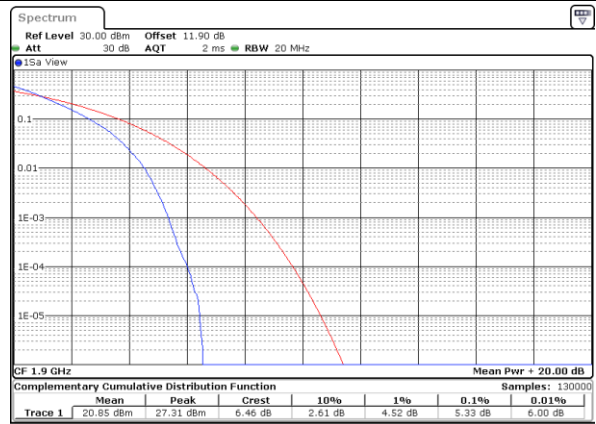
## Middle Channel / Full RB



## Highest Channel / 1RB



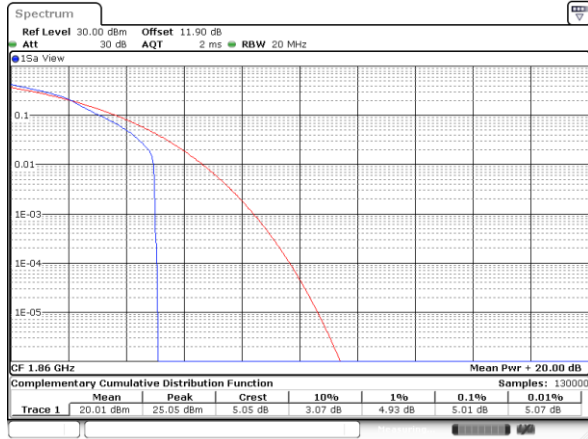
## Highest Channel / Full RB



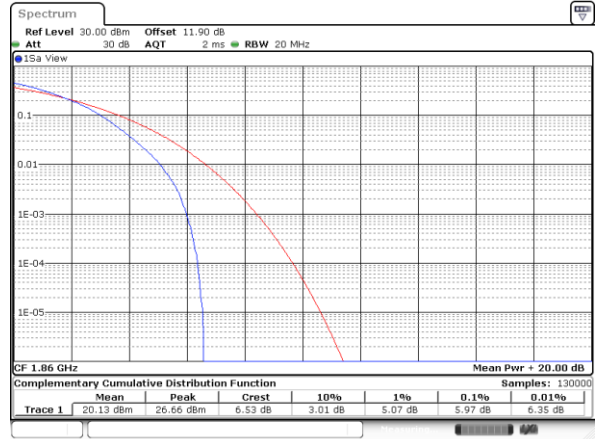


## LTE Band 2 / 20MHz / 16QAM

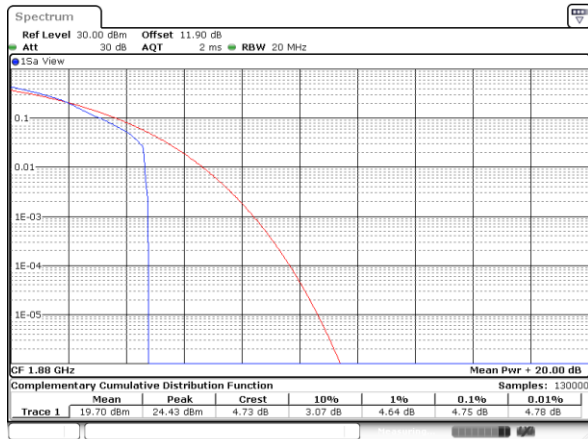
## Lowest Channel / 1RB



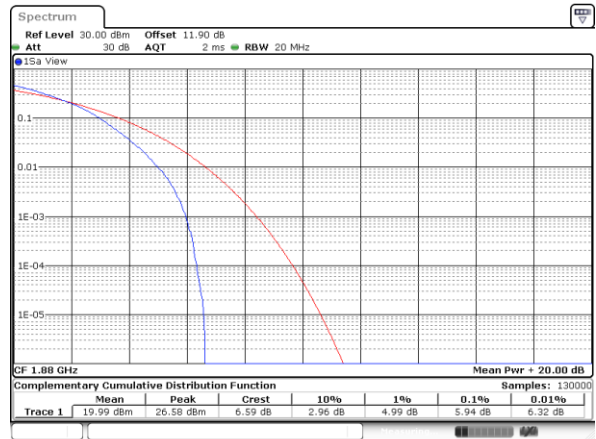
## Lowest Channel / Full RB



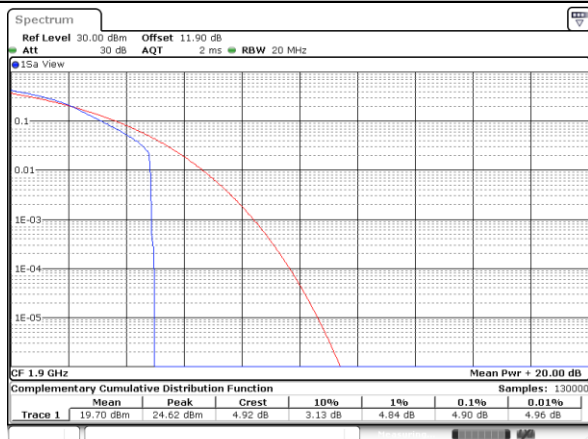
## Middle Channel / 1RB



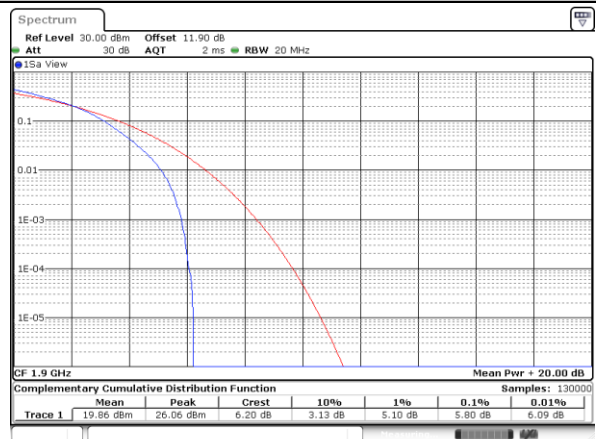
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



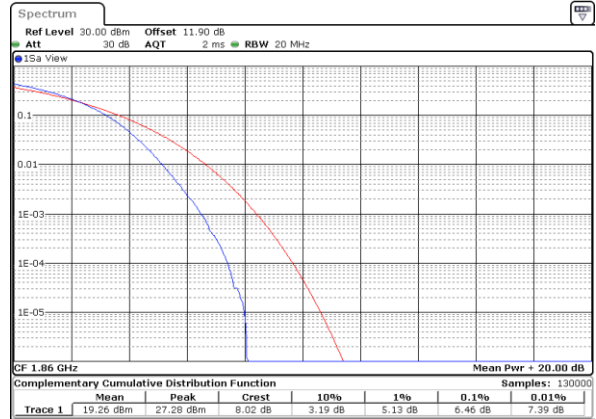


## LTE Band 2 / 20MHz / 64QAM

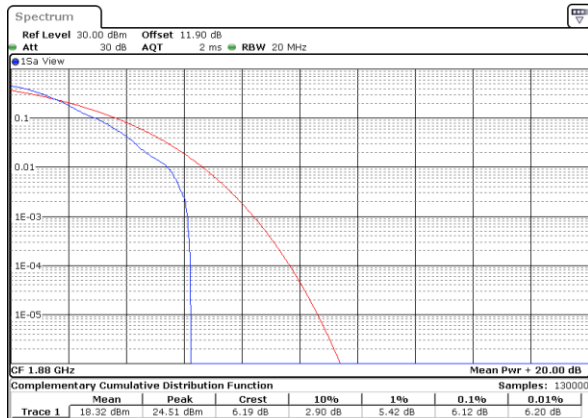
## Lowest Channel / 1RB



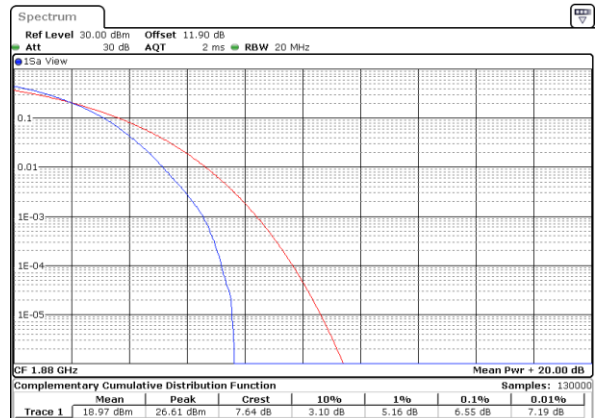
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



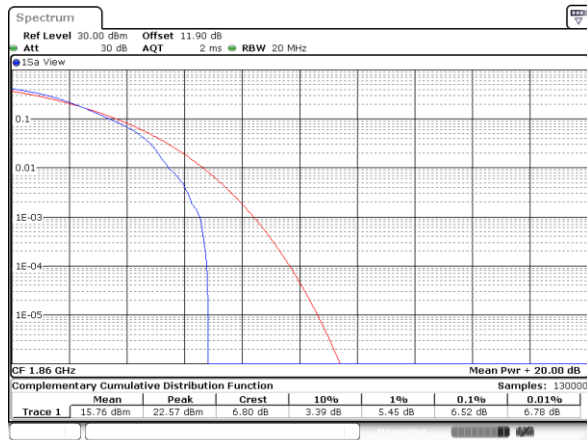
## Highest Channel / Full RB



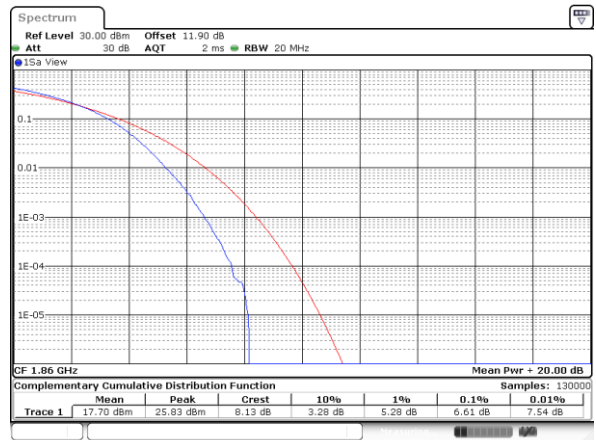


## LTE Band 2 / 20MHz / 256QAM

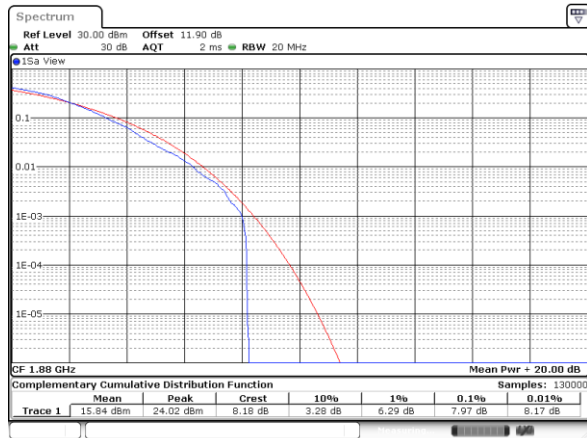
## Lowest Channel / 1RB



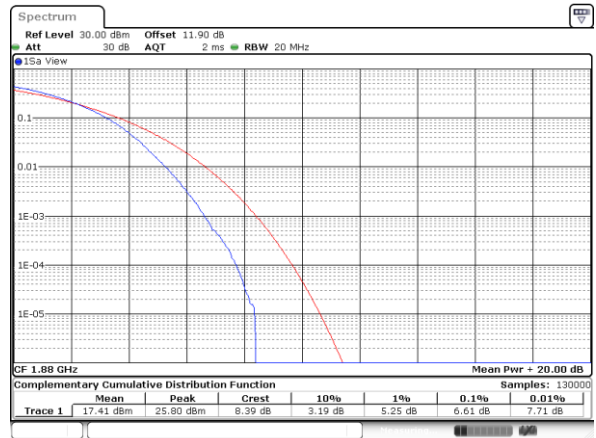
## Lowest Channel / Full RB



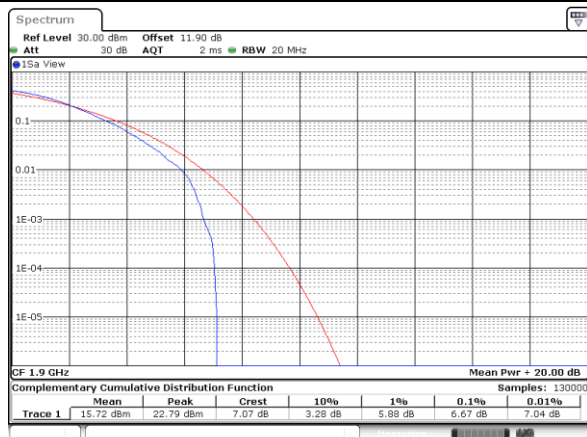
## Middle Channel / 1RB



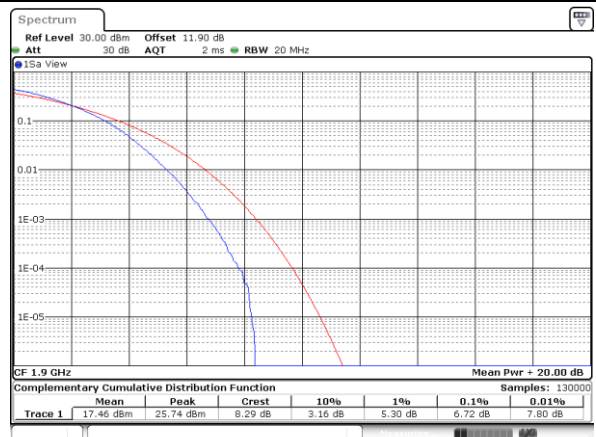
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



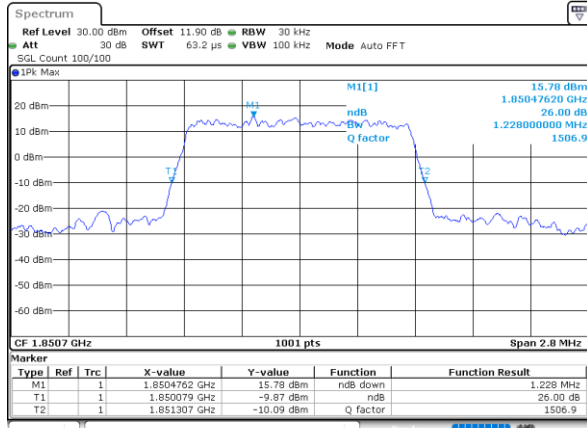
**26dB Bandwidth**

| Mode       | LTE Band 2 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
|------------|---------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| BW         | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | QPSK                      | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  | QPSK  | 16QAM  |
| Lowest CH  | 1.23                      | 1.23   | 3.00  | 3.05   | 4.92  | 4.84   | 9.91  | 9.79   | 14.24 | 14.33  | 19.02 | 18.94  |
| Middle CH  | 1.24                      | 1.23   | 3.04  | 3.02   | 4.93  | 4.90   | 9.79  | 9.79   | 14.30 | 14.21  | 19.22 | 19.02  |
| Highest CH | 1.23                      | 1.22   | 3.05  | 3.02   | 4.90  | 4.87   | 9.71  | 9.93   | 14.33 | 14.66  | 18.74 | 19.06  |
| Mode       | LTE Band 2 : 26dB BW(MHz) |        |       |        |       |        |       |        |       |        |       |        |
| BW         | 1.4MHz                    |        | 3MHz  |        | 5MHz  |        | 10MHz |        | 15MHz |        | 20MHz |        |
| Mod.       | 64QAM                     | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM | 64QAM | 256QAM |
| Lowest CH  | 1.21                      | 1.23   | 3.03  | 3.02   | 4.99  | 4.90   | 9.73  | 9.73   | 14.54 | 14.57  | 19.06 | 18.98  |
| Middle CH  | 1.23                      | 1.23   | 3.03  | 3.00   | 4.94  | 4.89   | 9.77  | 9.63   | 14.48 | 14.36  | 19.10 | 19.26  |
| Highest CH | 1.23                      | 1.21   | 3.00  | 2.96   | 4.98  | 4.90   | 9.75  | 9.97   | 14.27 | 14.63  | 18.98 | 18.94  |



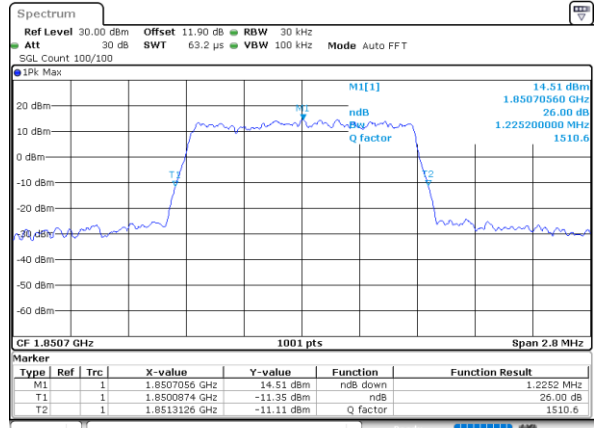
## LTE Band 2

## Lowest Channel / 1.4MHz / QPSK



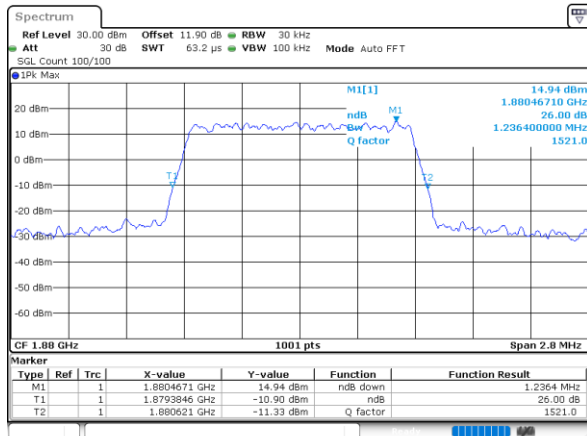
Date: 17.AUG.2020 09:15:28

## Lowest Channel / 1.4MHz / 16QAM



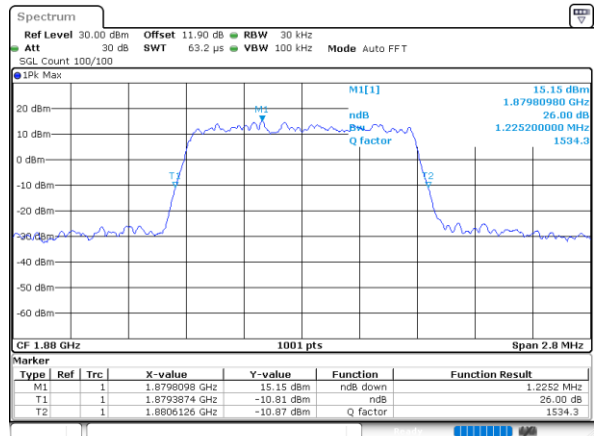
Date: 17.AUG.2020 09:15:39

## Middle Channel / 1.4MHz / QPSK



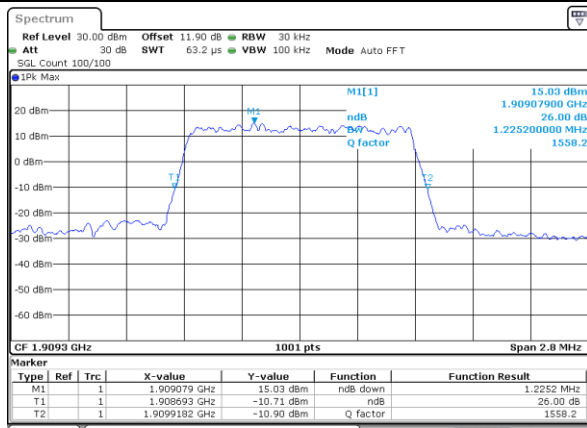
Date: 17.AUG.2020 09:17:44

## Middle Channel / 1.4MHz / 16QAM



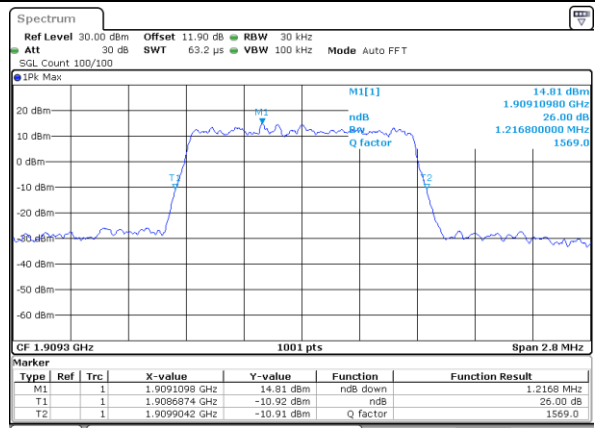
Date: 17.AUG.2020 09:17:55

## Highest Channel / 1.4MHz / QPSK



Date: 17.AUG.2020 09:19:59

## Highest Channel / 1.4MHz / 16QAM

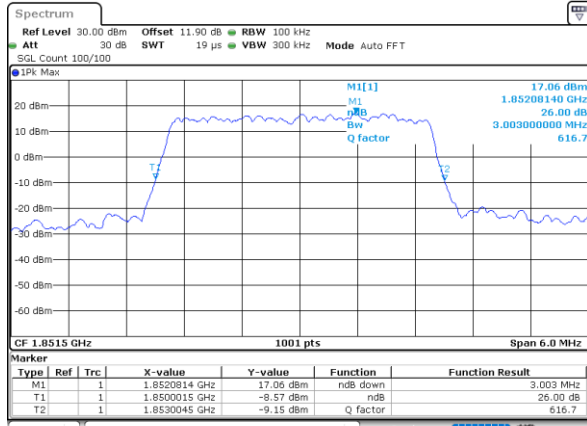


Date: 17.AUG.2020 09:20:11



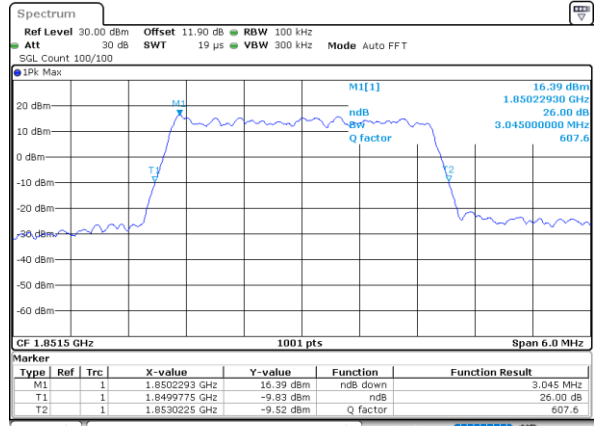
## LTE Band 2

## Lowest Channel / 3MHz / QPSK



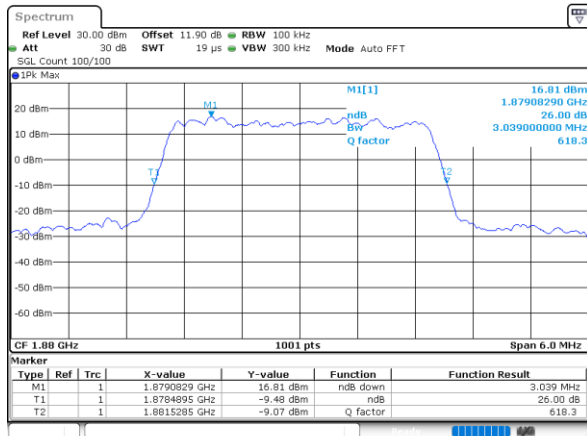
Date: 17.AUG.2020 09:22:10

## Lowest Channel / 3MHz / 16QAM



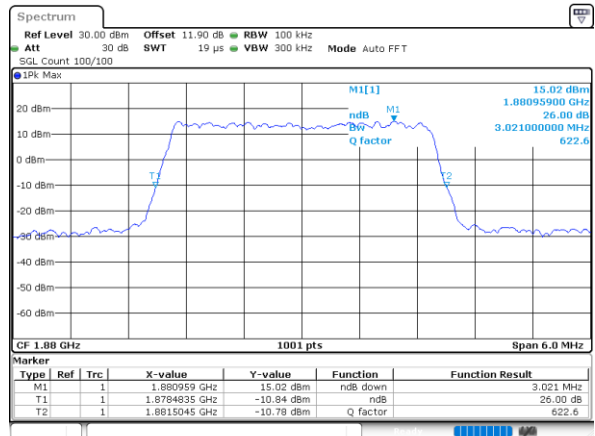
Date: 17.AUG.2020 09:22:29

## Middle Channel / 3MHz / QPSK



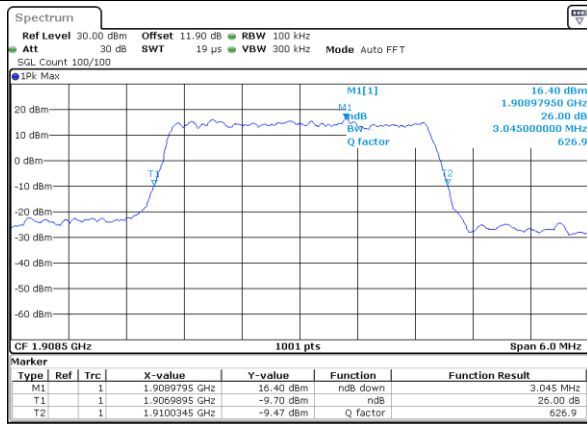
Date: 17.AUG.2020 09:23:03

## Middle Channel / 3MHz / 16QAM



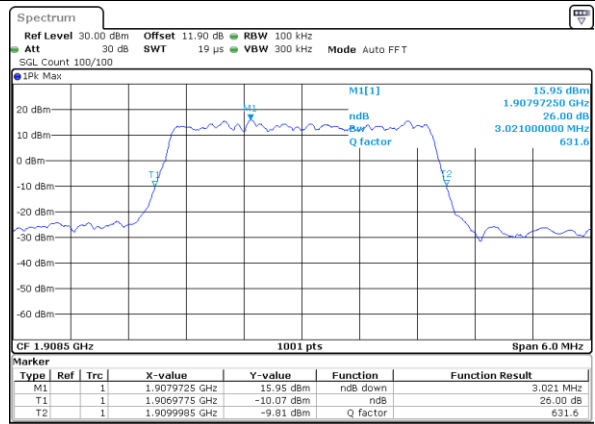
Date: 17.AUG.2020 09:23:14

## Highest Channel / 3MHz / QPSK



Date: 17.AUG.2020 09:31:18

## Highest Channel / 3MHz / 16QAM

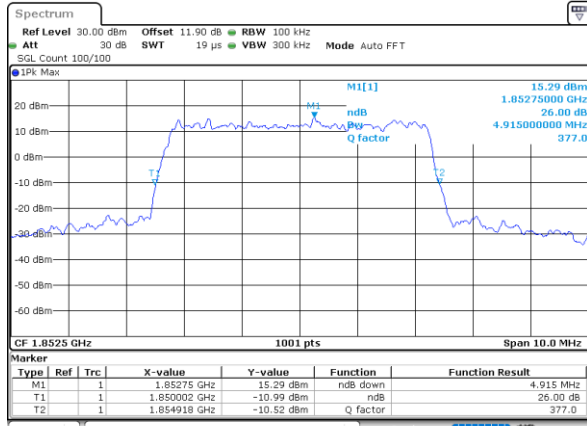


Date: 17.AUG.2020 09:31:30



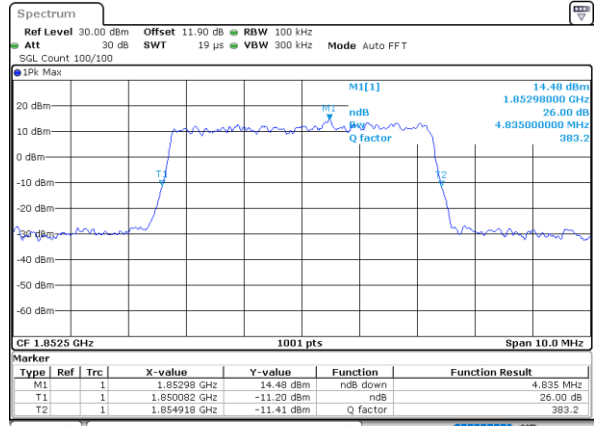
## LTE Band 2

## Lowest Channel / 5MHz / QPSK



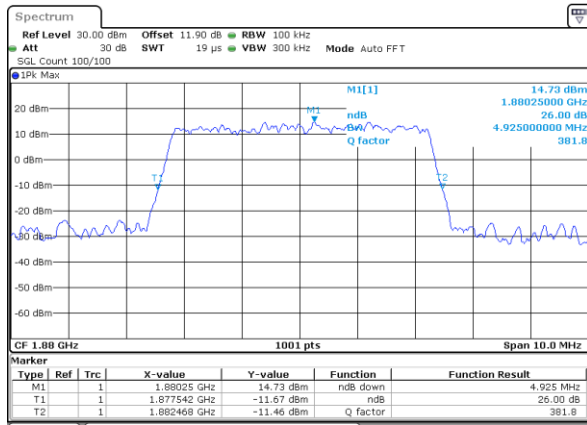
Date: 17.AUG.2020 09:36:17

## Lowest Channel / 5MHz / 16QAM



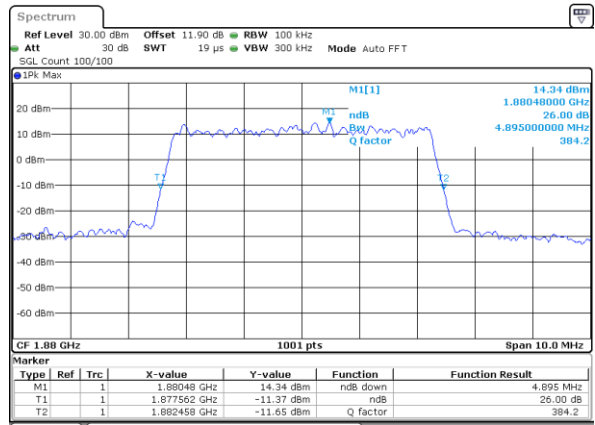
Date: 17.AUG.2020 09:36:29

## Middle Channel / 5MHz / QPSK



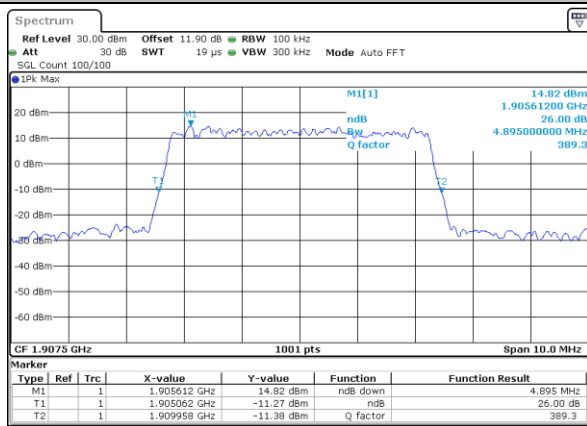
Date: 17.AUG.2020 09:41:13

## Middle Channel / 5MHz / 16QAM



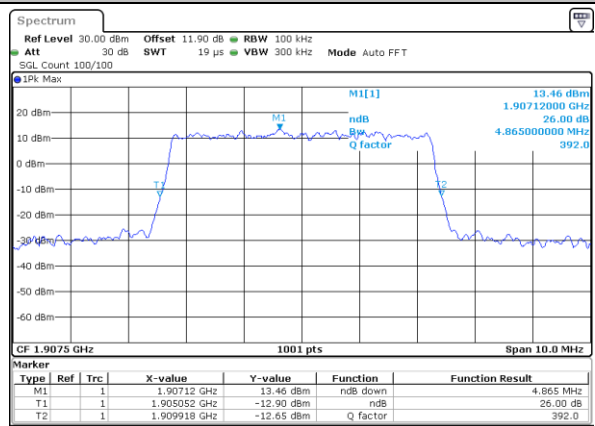
Date: 17.AUG.2020 09:41:24

## Highest Channel / 5MHz / QPSK



Date: 17.AUG.2020 09:43:29

## Highest Channel / 5MHz / 16QAM

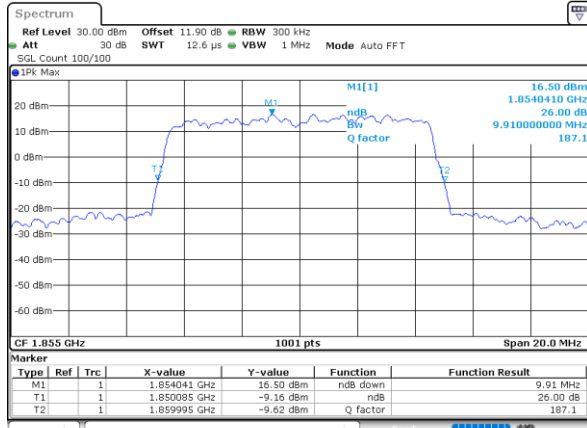


Date: 17.AUG.2020 09:43:40

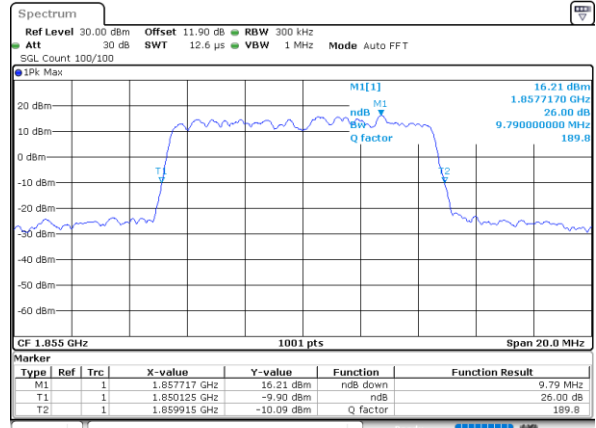


## LTE Band 2

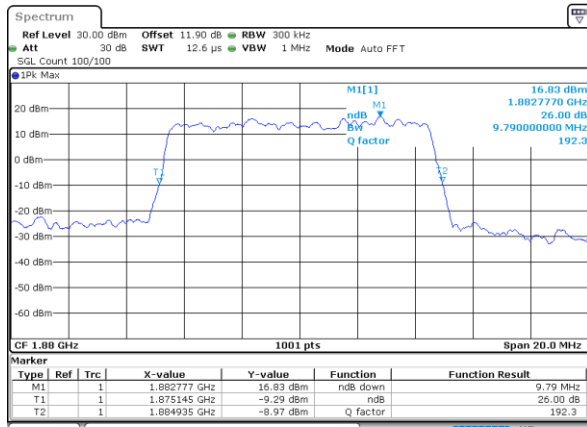
## Lowest Channel / 10MHz / QPSK



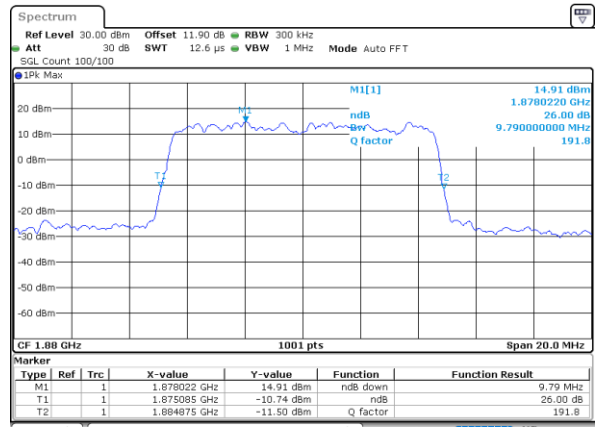
## Lowest Channel / 10MHz / 16QAM



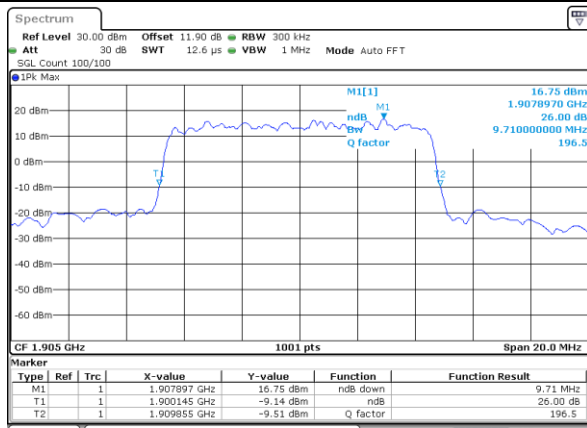
## Middle Channel / 10MHz / QPSK



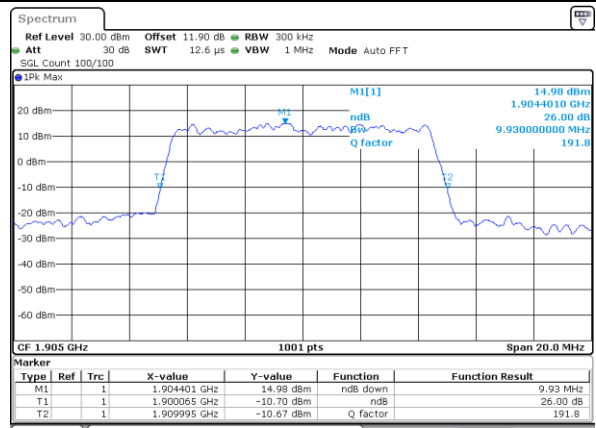
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



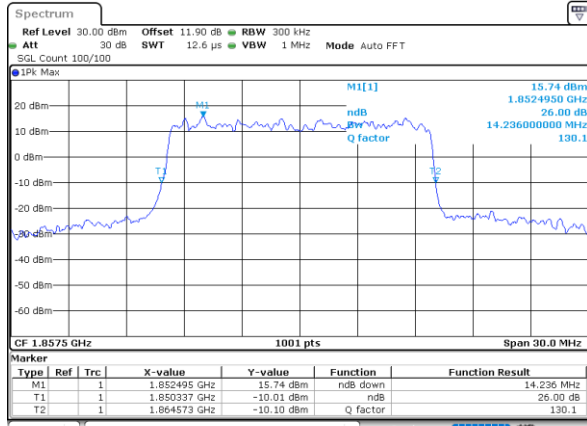
## Highest Channel / 10MHz / 16QAM





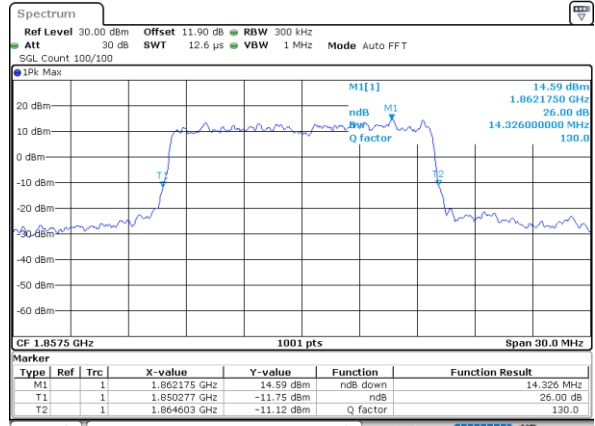
## LTE Band 2

## Lowest Channel / 15MHz / QPSK



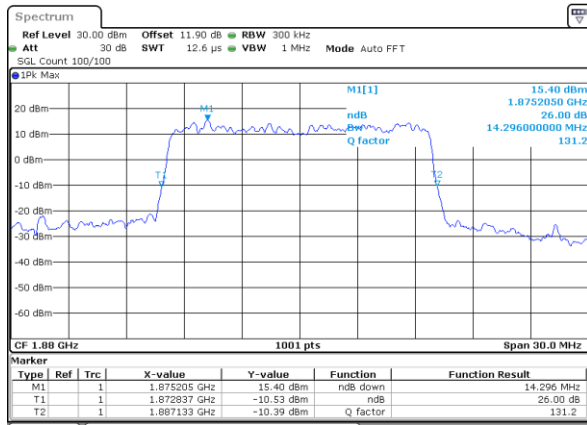
Date: 17.AUG.2020 10:00:37

## Lowest Channel / 15MHz / 16QAM



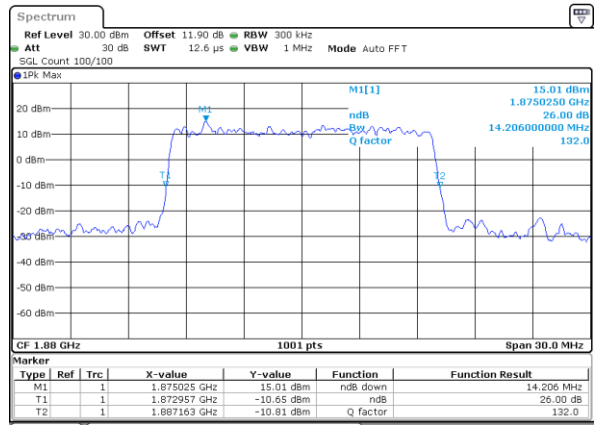
Date: 17.AUG.2020 10:00:49

## Middle Channel / 15MHz / QPSK



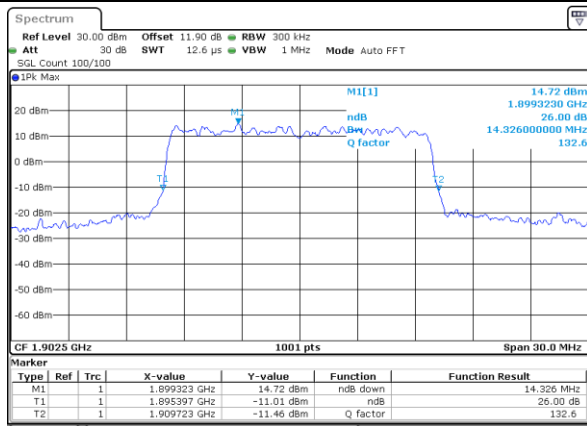
Date: 17.AUG.2020 10:05:35

## Middle Channel / 15MHz / 16QAM



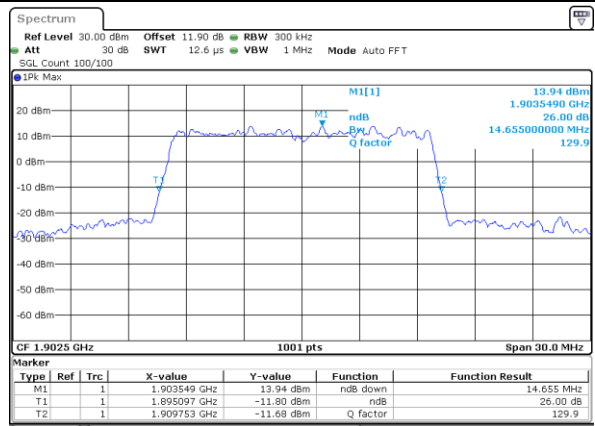
Date: 17.AUG.2020 10:05:46

## Highest Channel / 15MHz / QPSK



Date: 17.AUG.2020 10:07:50

## Highest Channel / 15MHz / 16QAM

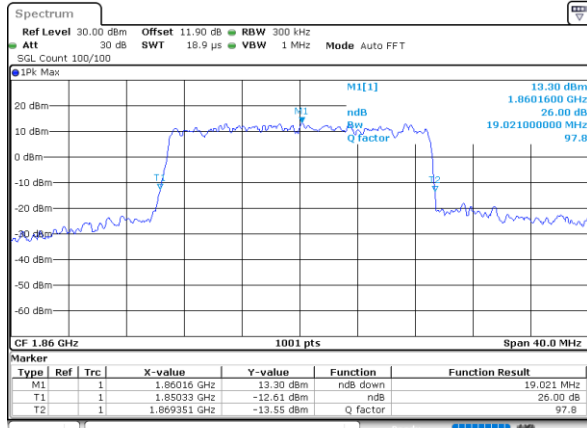


Date: 17.AUG.2020 10:08:02



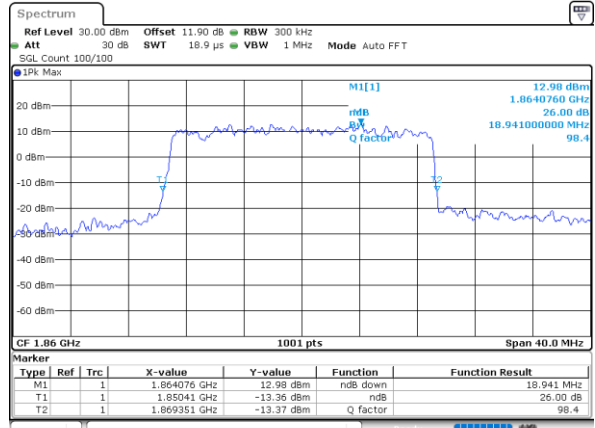
## LTE Band 2

## Lowest Channel / 20MHz / QPSK



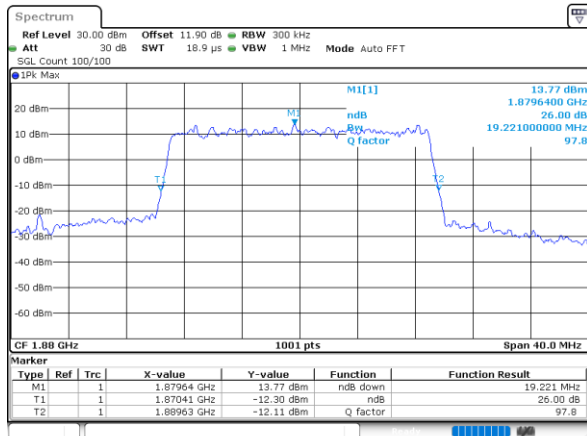
Date: 17.AUG.2020 10:12:48

## Lowest Channel / 20MHz / 16QAM



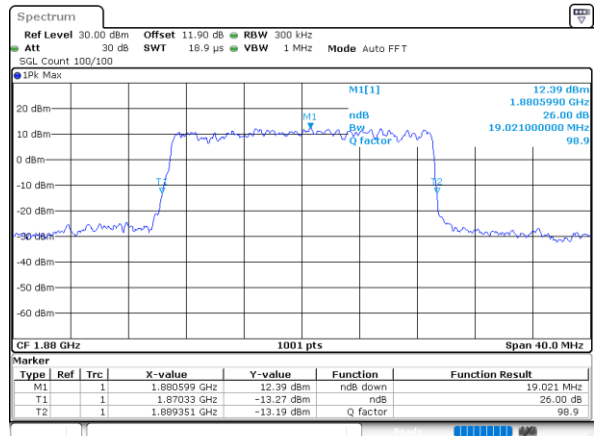
Date: 17.AUG.2020 10:13:00

## Middle Channel / 20MHz / QPSK



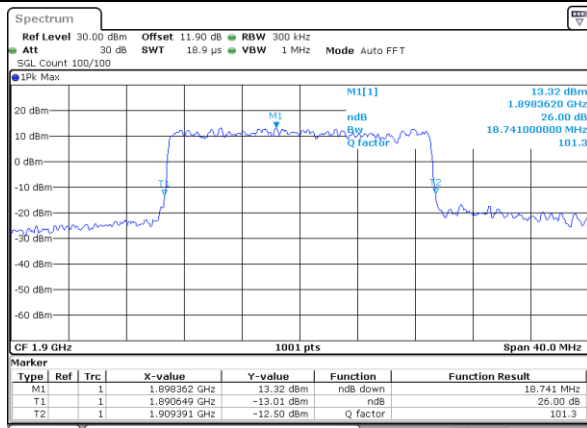
Date: 17.AUG.2020 10:17:44

## Middle Channel / 20MHz / 16QAM



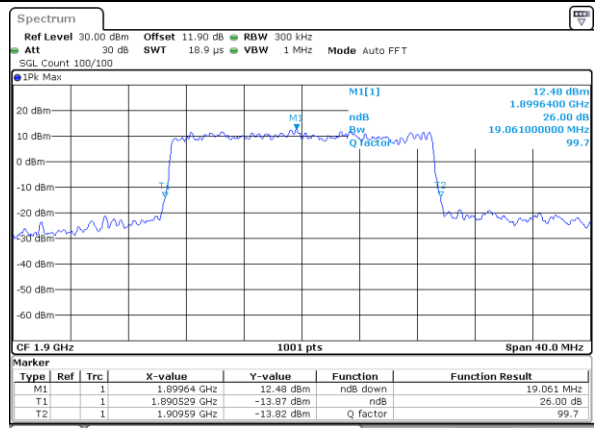
Date: 17.AUG.2020 10:17:55

## Highest Channel / 20MHz / QPSK



Date: 17.AUG.2020 10:20:00

## Highest Channel / 20MHz / 16QAM

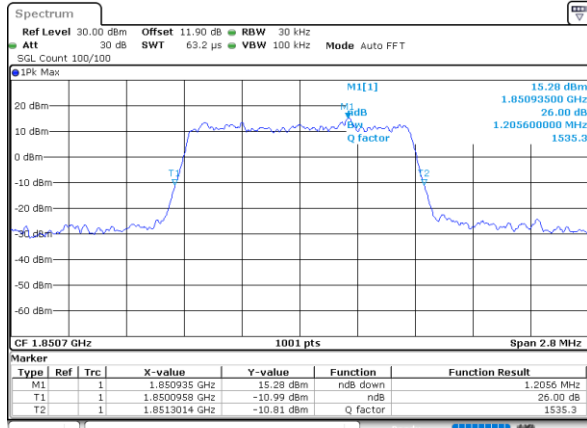


Date: 17.AUG.2020 10:20:12



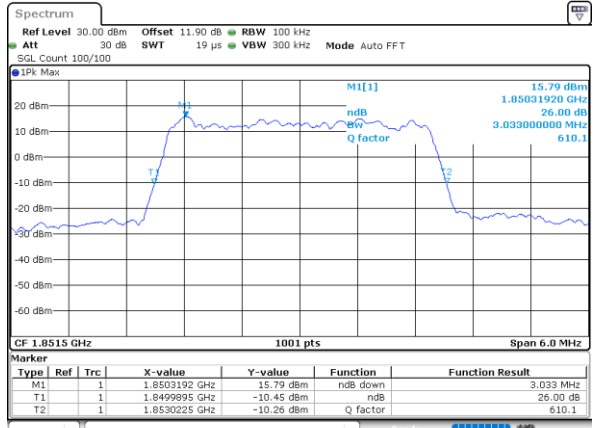
## LTE Band 2

## Lowest Channel / 1.4MHz / 64QAM



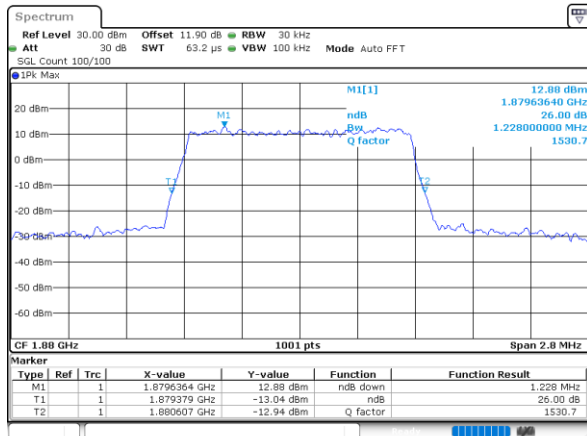
Date: 17.AUG.2020 09:11:51

## Lowest Channel / 3MHz / 64QAM



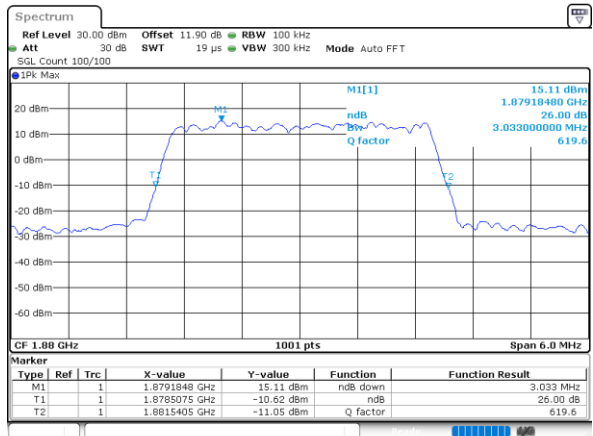
Date: 17.AUG.2020 10:24:47

## Middle Channel / 1.4MHz / 64QAM



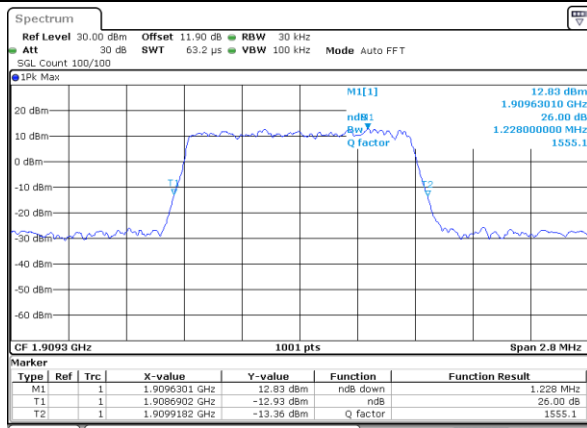
Date: 17.AUG.2020 09:12:59

## Middle Channel / 3MHz / 64QAM



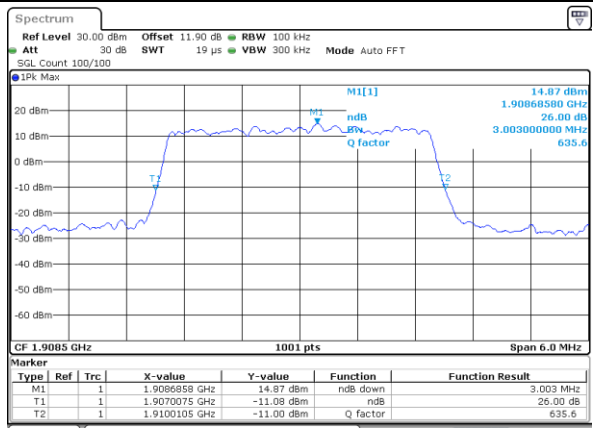
Date: 17.AUG.2020 10:27:14

## Highest Channel / 1.4MHz / 64QAM



Date: 17.AUG.2020 09:14:07

## Highest Channel / 3MHz / 64QAM

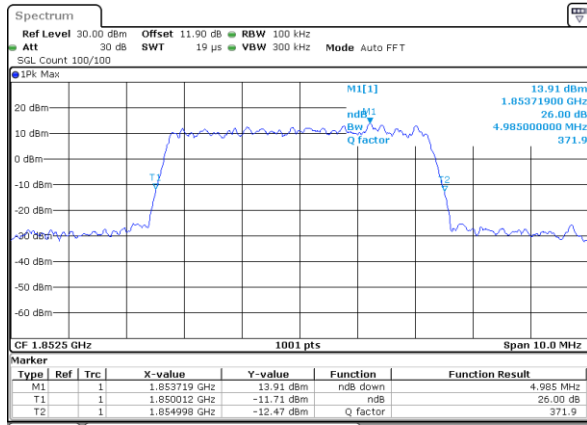


Date: 17.AUG.2020 10:28:22



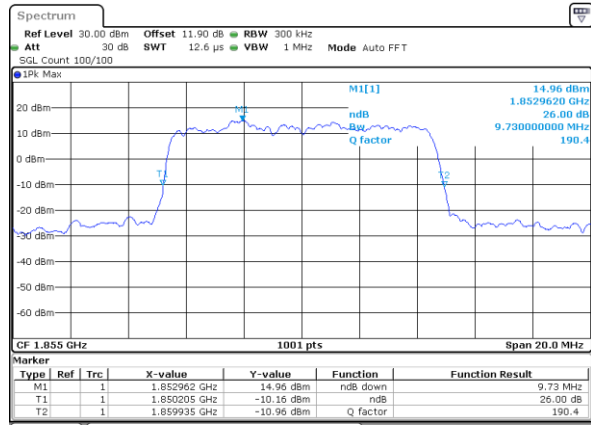
## LTE Band 2

## Lowest Channel / 5MHz / 64QAM



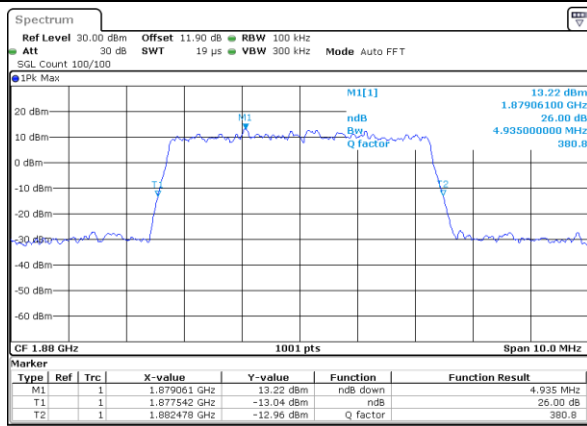
Date: 17.AUG.2020 10:30:51

## Lowest Channel / 10MHz / 64QAM



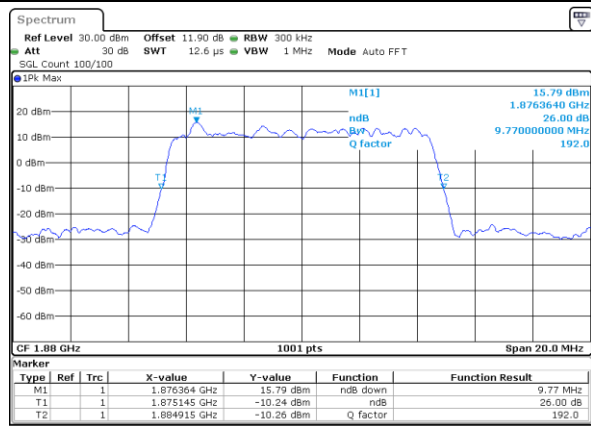
Date: 17.AUG.2020 10:36:56

## Middle Channel / 5MHz / 64QAM



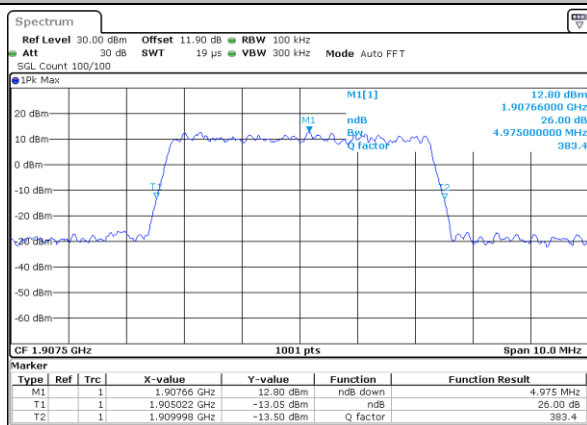
Date: 17.AUG.2020 10:33:19

## Middle Channel / 10MHz / 64QAM



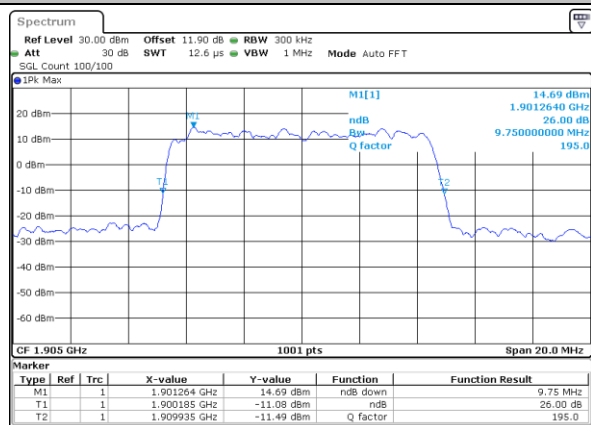
Date: 17.AUG.2020 10:39:24

## Highest Channel / 5MHz / 64QAM



Date: 17.AUG.2020 10:34:27

## Highest Channel / 10MHz / 64QAM

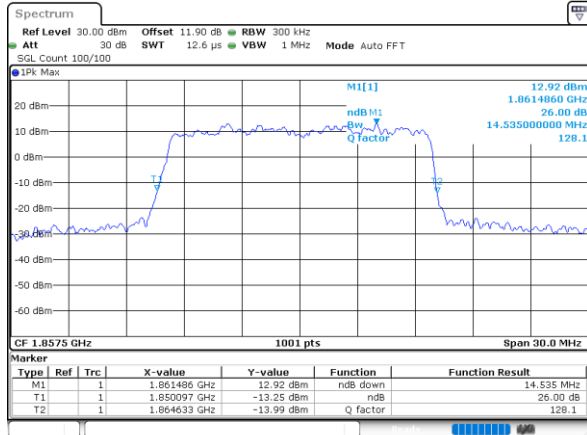


Date: 17.AUG.2020 10:40:32



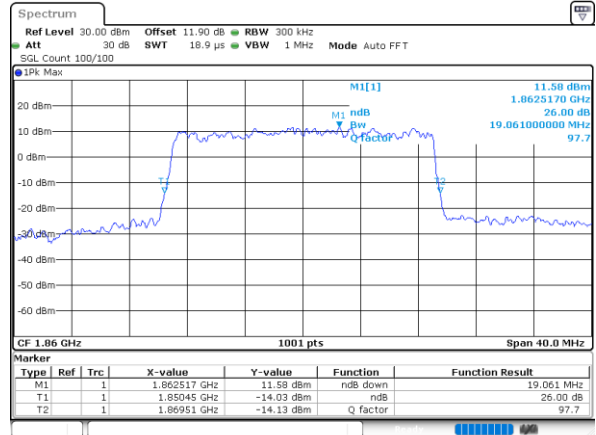
## LTE Band 2

## Lowest Channel / 15MHz / 64QAM



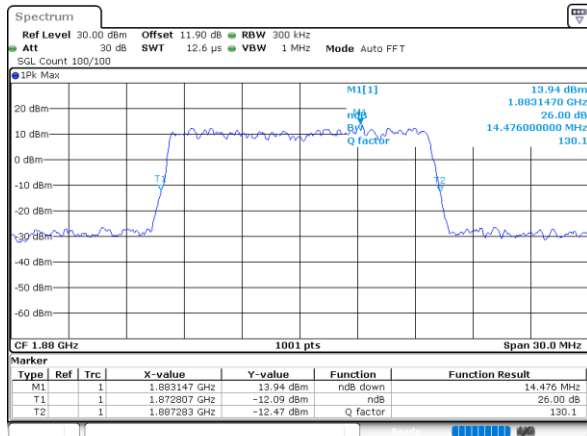
Date: 17.AUG.2020 10:43:02

## Lowest Channel / 20MHz / 64QAM



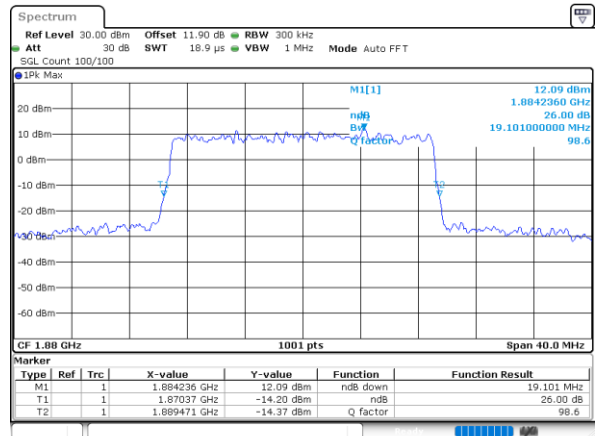
Date: 17.AUG.2020 10:49:07

## Middle Channel / 15MHz / 64QAM



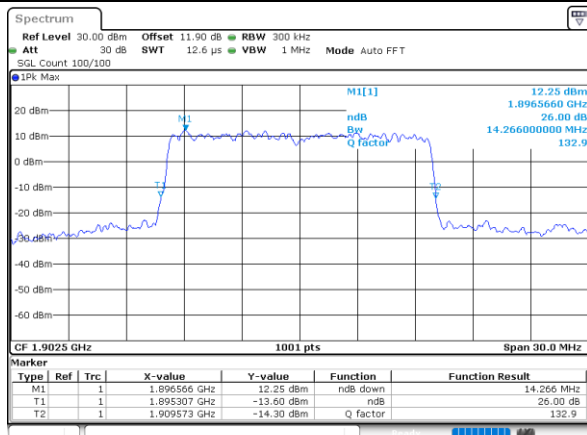
Date: 17.AUG.2020 10:45:29

## Middle Channel / 20MHz / 64QAM



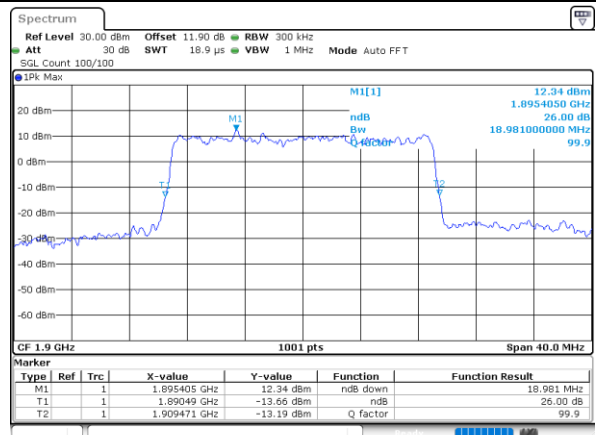
Date: 17.AUG.2020 10:51:35

## Highest Channel / 15MHz / 64QAM



Date: 17.AUG.2020 10:46:37

## Highest Channel / 20MHz / 64QAM



Date: 17.AUG.2020 10:52:42