



# FCC RADIO TEST REPORT

FCC ID : PKRISGFW2000  
Equipment : 5G CPE Wireless Solution  
Brand Name : Inseego  
Model Name : FW2000  
Marketing Name : FW2000,FW2000e  
Applicant : Inseego Corp.  
9710 Scranton Road Suite 200, San  
Diego, CA 92121  
Manufacturer : Inseego Corp.  
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 Sep. 07, 2020 and testing was started from Sep. 16, 2020 and completed on Mar. 10, 2021. 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 333, Taiwan (R.O.C.)



## Table of Contents

|                                                              |           |
|--------------------------------------------------------------|-----------|
| History of this test report.....                             | 3         |
| Summary of Test Result.....                                  | 4         |
| <b>1 General Description .....</b>                           | <b>6</b>  |
| 1.1 Product Feature of Equipment Under Test.....             | 6         |
| 1.2 Modification of EUT .....                                | 7         |
| 1.3 Testing Location .....                                   | 7         |
| 1.4 Applicable Standards.....                                | 8         |
| <b>2 Test Configuration of Equipment Under Test .....</b>    | <b>9</b>  |
| 2.1 Test Mode.....                                           | 9         |
| 2.2 Connection Diagram of Test System.....                   | 16        |
| 2.3 Support Unit used in test configuration and system ..... | 16        |
| 2.4 Measurement Results Explanation Example.....             | 16        |
| 2.5 Frequency List of Low/Middle/High Channels .....         | 17        |
| <b>3 Conducted Test Items.....</b>                           | <b>28</b> |
| 3.1 Measuring Instruments .....                              | 28        |
| 3.2 Conducted Output Power and ERP/EIRP .....                | 29        |
| 3.3 Peak-to-Average Ratio .....                              | 30        |
| 3.4 Occupied Bandwidth.....                                  | 31        |
| 3.5 Conducted Band Edge .....                                | 32        |
| 3.6 Conducted Spurious Emission .....                        | 34        |
| 3.7 Frequency Stability .....                                | 35        |
| <b>4 Radiated Test Items .....</b>                           | <b>36</b> |
| 4.1 Measuring Instruments .....                              | 36        |
| 4.2 Radiated Spurious Emission Measurement .....             | 38        |
| <b>5 List of Measuring Equipment.....</b>                    | <b>39</b> |
| <b>6 Uncertainty of Evaluation.....</b>                      | <b>41</b> |
| <b>Appendix A. Test Results of Conducted Test Test</b>       |           |
| <b>Appendix B. Test Results of Radiated Test</b>             |           |
| <b>Appendix C. Test Setup Photographs</b>                    |           |



## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FG082512A  | 01      | Initial issue of report | Mar. 11, 2021 |
| FG082512A  | 02      | Revise antenna gain     | May 25, 2021  |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |



## 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)(9)<br>§27.50 (c)(9)                                                        | 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)(2)(v)                                                           | 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)(2)(v)                                                           | 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>16.04 dB at<br>1599.000 MHz |
|               | \$2.1051<br>\$27.53 (m)(2)(v)                                                                           | 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: Tina Chuang**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

LTE/5G NR, Bluetooth and GNSS.

| Product Specification subjective to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Antenna Type</b>                               | WWAN: Fixed Internal Antenna<br>Bluetooth: Fixed Internal Antenna<br>GPS/Glonass/Galileo/BDS : Fixed Internal Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Antenna Gain</b>                               | <p><b>&lt;Ant. 0&gt;:</b><br/>                     &lt;Main Antenna &gt;:<br/>                     LTE Band 2: 9.1dBi<br/>                     LTE Band 4: 8.5dBi<br/>                     LTE Band 5: 2.4dBi<br/>                     LTE Band 7: 10.3dBi<br/>                     LTE Band 12: 3.3dBi<br/>                     LTE Band 13: 0.4dBi<br/>                     LTE Band 17: 3.3dBi<br/>                     LTE Band 25: 9.1dBi<br/>                     LTE Band 26: 2.4dBi<br/>                     LTE Band 38: 6.0dBi<br/>                     LTE Band 41: 10.3dB<br/>                     LTE Band 66: 8.5dBi<br/>                     LTE Band 71: 3.1dBi<br/>                     &lt;Aux. Antenna&gt;:<br/>                     LTE Band 2: 10.4dBi<br/>                     LTE Band 4: 11.8dBi<br/>                     LTE Band 5: 4.1dBi<br/>                     LTE Band 7: 9.5dBi<br/>                     LTE Band 12: 2.8dBi<br/>                     LTE Band 13: 2.8dBi<br/>                     LTE Band 17: 2.8dBi<br/>                     LTE Band 25: 9.5dBi<br/>                     LTE Band 26: 4.1dBi<br/>                     LTE Band 66: 11.8dBi<br/>                     LTE Band 71: 3.3dBi</p> <p><b>&lt;Ant. 8&gt;:</b><br/>                     &lt;Main Antenna &gt;:<br/>                     LTE Band 2: 9.1dBi<br/>                     LTE Band 4: 8.5dBi<br/>                     LTE Band 7: 10.3dBi<br/>                     LTE Band 25: 9.1dBi<br/>                     LTE Band 41: 10.3dB<br/>                     LTE Band 66: 8.5dBi<br/>                     &lt;Aux. Antenna&gt;:<br/>                     LTE Band 2: 10.4dBi<br/>                     LTE Band 4: 11.8dBi<br/>                     LTE Band 7: 9.5dBi<br/>                     LTE Band 25: 9.5dBi<br/>                     LTE Band 66: 11.8dBi</p> |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.



## 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 333, 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>TH02-HY                                                                                        |
| Test Engineer      | Benjamin Lin                                                                                                              |
| Temperature        | 22.7~24.5℃                                                                                                                |
| Relative Humidity  | 50.3~52.6%                                                                                                                |

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | Sporton International Inc. Wensan Laboratory.                                                                                                    |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City<br>333010, 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 (TAF Code: 3786)                                                                                            |
| Test Engineer      | Jack Cheng, Lance Chiang and Chuan Chu                                                                                                           |
| Temperature        | 24.3~26.4℃                                                                                                                                       |
| Relative Humidity  | 58~66%                                                                                                                                           |
| Remark             | The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.                                          |

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

FCC Designation No.: TW1190 and TW3786



## 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. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. 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, 41\_HPUE, 5B\_CA, 41\_CA, 66B\_CA, 2A + 4A, 2A + 12A, 4A+7A; Y Plane for LTE Band 7, 12, 26, 66C\_CA, 2A + 5A, 2A + 13A, 2A + 66A, 4A + 5A, 4A + 12A, 4A + 13A, 5A + 66A, 13A + 66A; Z Plane for LTE Band 4 , 25, 71, 2A + 7A, 5A + 7A, 12A + 66A) were recorded in this report.

| Test Items        | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                   |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 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 |
|                   | 5    | 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 |
|                   | 12   | 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 |
|                   | 17   | -               | - | 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 |
|                   | 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 | 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 | v |



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



| Test Items                       | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bandwidth (MHz)    |   |   |    |    |    | Modulation |       |       | RB #      |      |      | Test Channel |   |   |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|---|----|----|----|------------|-------|-------|-----------|------|------|--------------|---|---|
|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.4                | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1         | Half | Full | L            | M | H |
| E.R.P /<br>E.I.R.P               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | v  | v  | v          | v     | v     | Max Power |      |      |              |   |   |
|                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | -  | -  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                  | - | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | -  | -  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | -  | -  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | -  | -  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | -  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
|                                  | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |           |      |      |              |   |   |
| Radiated<br>Spurious<br>Emission | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Covered by Band 25 |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Worst Case         |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Covered by Band 26 |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Worst Case         |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Worst Case         |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Worst Case         |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 12 |   |   |    |    |    |            |       |       |           | v    | v    | v            |   |   |
|                                  | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 4  |   |   |    |    |    |            |       |       |           | 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. Wider operating range bandwidth covers narrower one when the power is higher or the same. |                    |   |   |    |    |    |            |       |       |           |      |      |              |   |   |

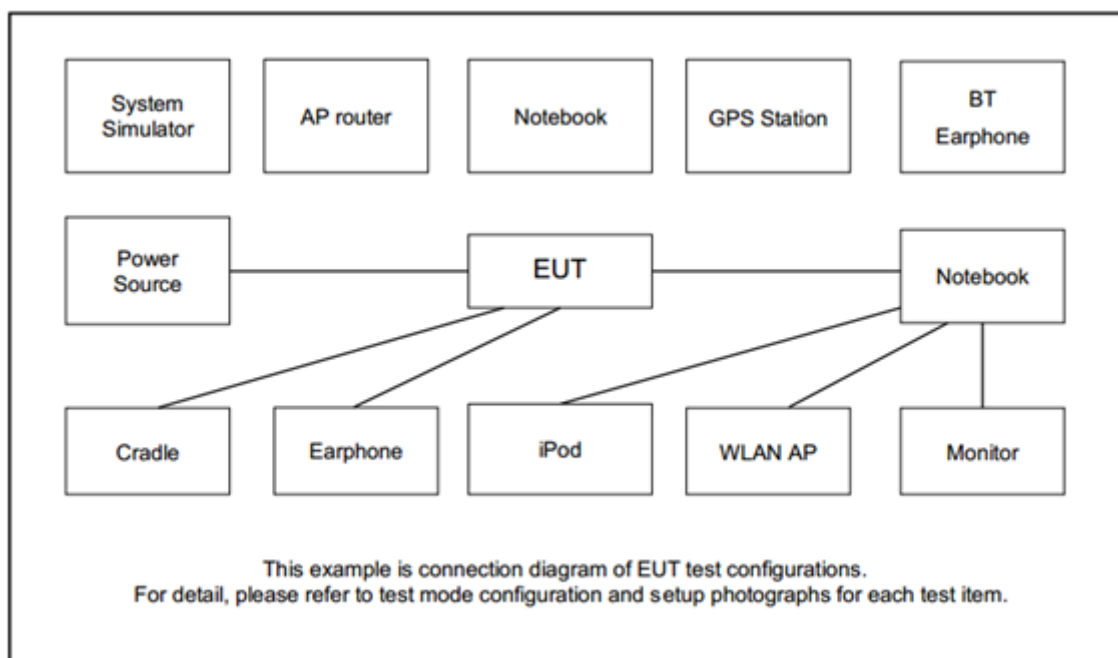


| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                               | Bandwidth (MHz) |      |      |      |      |     |     |     | Modulation |       |       | RB #      |      |      | Test Channel |   |   |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|------|-----|-----|-----|------------|-------|-------|-----------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                    | 10+10           | 15+5 | 5+15 | 10+5 | 5+10 | 5+5 | 5+3 | 3+5 | QPSK       | 16QAM | 64QAM | 1         | Half | Full | L            | M | H |
| Max. Output Power           | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    | v    | v    | -   |     |     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v    | v    | v    | v    | v   | -   | -   | v          | v     | v     | v         | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth      | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    | v    | v    | -   |     |     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v    | v    | v    | v    | v   | -   | -   | v          | v     | v     | v         | v    | v    | v            | v | v |
| Conducted Band Edge         | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    | v    | v    | -   |     |     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v    | v    | v    | v    | v   | -   | -   | v          | v     | v     | v         | v    | v    | v            | v | v |
| Conducted Spurious Emission | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    | v    | v    | -   |     |     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v    | v    | v    | v    | v   | -   | -   | v          | v     | v     | v         | v    | v    | v            | v | v |
| E.R.P / E.I.R.P.            | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    | v    | v    | -   |     |     | v          | v     | v     | Max Power |      |      |              |   |   |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v    | v    | v    | v    | v   | -   | -   | v          | v     | v     |           |      |      |              |   |   |
| Radiated Spurious Emission  | 5_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | -    | -    |      |      | -   |     |     | v          |       |       | v         |      |      | v            | v | v |
|                             | 66B_CA                                                                                                                                                                                                                                                                                                                                                                             | v               |      |      |      |      |     | -   | -   | v          |       |       | v         |      |      | 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. |                 |      |      |      |      |     |     |     |            |       |       |           |      |      |              |   |   |



| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                               | Bandwidth (MHz) |       |       |       |       |      |      |       |       |       | Modulation |       |       | RB #      |      |      | Test Channel |   |   |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|------------|-------|-------|-----------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                    | 20+20           | 20+15 | 15+20 | 20+10 | 10+20 | 20+5 | 5+20 | 15+15 | 15+10 | 10+15 | QPSK       | 16QAM | 64QAM | 1         | Half | Full | L            | M | H |
| Max. Output Power           | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth      | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
| Conducted Band Edge         | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
| Conducted Spurious Emission | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v         | v    | v    | v            | v | v |
| E.I.R.P.                    | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | Max Power |      |      |              |   |   |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |           |      |      |              |   |   |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |           |      |      |              |   |   |
| Radiated Spurious Emission  | 38_CA                                                                                                                                                                                                                                                                                                                                                                              | v               | -     | -     | -     | -     | -    | -    |       | -     | -     | v          |       |       | v         |      |      | v            | v | v |
|                             | 41_CA                                                                                                                                                                                                                                                                                                                                                                              | v               |       |       |       |       |      |      |       |       |       | v          |       |       | v         |      |      | v            | v | v |
|                             | 66C_CA                                                                                                                                                                                                                                                                                                                                                                             | v               |       |       |       |       |      |      |       |       |       | v          |       |       | v         |      |      | 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. |                 |       |       |       |       |      |      |       |       |       |            |       |       |           |      |      |              |   |   |

## 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    | MT8821C   | 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 :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



## 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 | 132197 | 132322  |
|                                        | Frequency              | 1720.0 | 1732.5 | 1745.0  |
| 15                                     | Channel                | 132047 | 132197 | 132347  |
|                                        | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                     | Channel                | 132022 | 132197 | 132372  |
|                                        | Frequency              | 1715.0 | 1732.5 | 1750.0  |
| 5                                      | Channel                | 131997 | 132197 | 132397  |
|                                        | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                      | Channel                | 131987 | 132197 | 132407  |
|                                        | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                    | Channel                | 131979 | 132197 | 132415  |
|                                        | Frequency              | 1710.7 | 1732.5 | 1754.3  |

| 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   |



| LTE Band 38 Channel and Frequency List |                        |           |        |        |         |
|----------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                | PCC                    | Channel   | 37850  | 37901  | 37952   |
|                                        |                        | Frequency | 2580.0 | 2585.1 | 2590.2  |
|                                        | SCC                    | Channel   | 38048  | 38099  | 38150   |
|                                        |                        | Frequency | 2599.8 | 2604.9 | 2610.0  |
| 15+ 15                                 | PCC                    | Channel   | 37825  | 37925  | 38025   |
|                                        |                        | Frequency | 2577.5 | 2587.5 | 2597.5  |
|                                        | SCC                    | Channel   | 37975  | 38075  | 38175   |
|                                        |                        | Frequency | 2592.5 | 2602.5 | 2612.5  |

| LTE Band 41 Channel and Frequency List |                        |           |        |        |         |
|----------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                | PCC                    | Channel   | 39750  | 40521  | 41292   |
|                                        |                        | Frequency | 2506.0 | 2583.1 | 2660.2  |
|                                        | SCC                    | Channel   | 39948  | 40719  | 41490   |
|                                        |                        | Frequency | 2525.8 | 2602.9 | 2680.0  |
| 20 + 15                                | PCC                    | Channel   | 39750  | 40546  | 41341   |
|                                        |                        | Frequency | 2506.0 | 2585.6 | 2665.1  |
|                                        | SCC                    | Channel   | 39921  | 40717  | 41512   |
|                                        |                        | Frequency | 2523.1 | 2602.7 | 2682.2  |
| 15 + 20                                | PCC                    | Channel   | 39728  | 40523  | 41319   |
|                                        |                        | Frequency | 2503.8 | 2593.3 | 2662.9  |
|                                        | SCC                    | Channel   | 39899  | 40694  | 41490   |
|                                        |                        | Frequency | 2520.9 | 2600.4 | 2680.0  |
| 20 + 10                                | PCC                    | Channel   | 39750  | 40571  | 41391   |
|                                        |                        | Frequency | 2506.0 | 2588.1 | 2670.1  |
|                                        | SCC                    | Channel   | 39894  | 40715  | 41535   |
|                                        |                        | Frequency | 2520.4 | 2602.5 | 2684.5  |
| 10 + 20                                | PCC                    | Channel   | 39705  | 40526  | 41346   |
|                                        |                        | Frequency | 2501.5 | 2583.6 | 2665.6  |
|                                        | SCC                    | Channel   | 39849  | 40670  | 41490   |
|                                        |                        | Frequency | 2515.9 | 2598.0 | 2680.0  |



| LTE Band 41 Channel and Frequency List |     |           |        |        |        |
|----------------------------------------|-----|-----------|--------|--------|--------|
| 20 + 5                                 | PCC | Channel   | 39750  | 40595  | 41440  |
|                                        |     | Frequency | 2506.0 | 2590.5 | 2675.0 |
|                                        | SCC | Channel   | 39867  | 40712  | 41557  |
|                                        |     | Frequency | 2517.7 | 2602.2 | 2686.7 |
| 5 + 20                                 | PCC | Channel   | 39683  | 40528  | 41373  |
|                                        |     | Frequency | 2499.3 | 2583.8 | 2668.3 |
|                                        | SCC | Channel   | 39800  | 40645  | 41490  |
|                                        |     | Frequency | 2511.0 | 2595.5 | 2680.0 |
| 15 + 15                                | PCC | Channel   | 39725  | 40545  | 41365  |
|                                        |     | Frequency | 2503.5 | 2585.5 | 2667.5 |
|                                        | SCC | Channel   | 39875  | 40695  | 41515  |
|                                        |     | Frequency | 2518.5 | 2600.5 | 2682.5 |
| 10 + 15                                | PCC | Channel   | 39703  | 40549  | 41395  |
|                                        |     | Frequency | 2501.3 | 2585.9 | 2670.5 |
|                                        | SCC | Channel   | 39823  | 40669  | 41515  |
|                                        |     | Frequency | 2513.3 | 2597.9 | 2682.5 |
| 15 + 10                                | PCC | Channel   | 39725  | 40571  | 41417  |
|                                        |     | Frequency | 2503.5 | 2588.1 | 2672.7 |
|                                        | SCC | Channel   | 39845  | 40691  | 41537  |
|                                        |     | Frequency | 2515.5 | 2600.1 | 2684.7 |



| LTE Band 5B Channel and Frequency List |     |           |       |       |       |
|----------------------------------------|-----|-----------|-------|-------|-------|
| 3 + 5                                  | PCC | Channel   | 20416 | 20501 | 20586 |
|                                        |     | Frequency | 825.6 | 834.1 | 842.6 |
|                                        | SCC | Channel   | 20455 | 20540 | 20625 |
|                                        |     | Frequency | 829.5 | 838.0 | 846.5 |
| 5 + 3                                  | PCC | Channel   | 20425 | 20510 | 20595 |
|                                        |     | Frequency | 826.5 | 835.0 | 843.5 |
|                                        | SCC | Channel   | 20464 | 20549 | 20634 |
|                                        |     | Frequency | 830.4 | 838.9 | 847.4 |
| 5 + 10                                 | PCC | Channel   | 20428 | 20478 | 20528 |
|                                        |     | Frequency | 826.8 | 831.8 | 836.8 |
|                                        | SCC | Channel   | 20500 | 20550 | 20600 |
|                                        |     | Frequency | 834.0 | 839.0 | 844.0 |
| 10 + 5                                 | PCC | Channel   | 20450 | 20500 | 20550 |
|                                        |     | Frequency | 829.0 | 834.0 | 839.0 |
|                                        | SCC | Channel   | 20522 | 20572 | 20622 |
|                                        |     | Frequency | 836.2 | 841.2 | 846.2 |
| 10 + 10                                | PCC | Channel   | 20450 | 20476 | 20501 |
|                                        |     | Frequency | 829.0 | 831.6 | 834.1 |
|                                        | SCC | Channel   | 20549 | 20575 | 20600 |
|                                        |     | Frequency | 838.9 | 841.5 | 844.0 |



| LTE Band 66B Channel and Frequency List |     |           |        |        |        |
|-----------------------------------------|-----|-----------|--------|--------|--------|
| 5 + 5                                   | PCC | Channel   | 131977 | 132173 | 132349 |
|                                         |     | Frequency | 1712.5 | 1730.1 | 1747.7 |
|                                         | SCC | Channel   | 132045 | 132221 | 132397 |
|                                         |     | Frequency | 1717.3 | 1734.9 | 1752.5 |
| 5 + 10                                  | PCC | Channel   | 131997 | 132149 | 132300 |
|                                         |     | Frequency | 1712.5 | 1727.7 | 1742.8 |
|                                         | SCC | Channel   | 132069 | 132221 | 132372 |
|                                         |     | Frequency | 1719.7 | 1734.9 | 1750.0 |
| 10 + 5                                  | PCC | Channel   | 132022 | 132174 | 132325 |
|                                         |     | Frequency | 1715.0 | 1730.2 | 1745.3 |
|                                         | SCC | Channel   | 132094 | 132246 | 132397 |
|                                         |     | Frequency | 1722.2 | 1737.4 | 1752.5 |
| 5 + 15                                  | PCC | Channel   | 131997 | 132126 | 132254 |
|                                         |     | Frequency | 1712.5 | 1725.4 | 1738.2 |
|                                         | SCC | Channel   | 132090 | 132219 | 132347 |
|                                         |     | Frequency | 1721.8 | 1734.7 | 1747.5 |
| 15 + 5                                  | PCC | Channel   | 132047 | 132176 | 132304 |
|                                         |     | Frequency | 1717.5 | 1730.4 | 1743.2 |
|                                         | SCC | Channel   | 132140 | 132269 | 132397 |
|                                         |     | Frequency | 1726.8 | 1739.7 | 1752.5 |
| 10 + 10                                 | PCC | Channel   | 132022 | 132148 | 132273 |
|                                         |     | Frequency | 1715.0 | 1727.6 | 1740.1 |
|                                         | SCC | Channel   | 132121 | 132247 | 132372 |
|                                         |     | Frequency | 1724.9 | 1737.5 | 1750.0 |



| LTE Band 66C Channel and Frequency List |                        |           |        |        |         |
|-----------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                 | PCC                    | Channel   | 132072 | 132098 | 132124  |
|                                         |                        | Frequency | 1720.0 | 1722.6 | 1725.2  |
|                                         | SCC                    | Channel   | 132270 | 132296 | 132322  |
|                                         |                        | Frequency | 1739.8 | 1742.4 | 1745.0  |
| 20 + 15                                 | PCC                    | Channel   | 132072 | 132124 | 132176  |
|                                         |                        | Frequency | 1720.0 | 1725.2 | 1730.4  |
|                                         | SCC                    | Channel   | 132243 | 132295 | 132347  |
|                                         |                        | Frequency | 1737.1 | 1742.3 | 1747.5  |
| 15 + 20                                 | PCC                    | Channel   | 132047 | 132099 | 132151  |
|                                         |                        | Frequency | 1717.5 | 1722.7 | 1727.9  |
|                                         | SCC                    | Channel   | 132218 | 132270 | 132322  |
|                                         |                        | Frequency | 1734.6 | 1739.8 | 1745.0  |
| 20 + 10                                 | PCC                    | Channel   | 132072 | 132150 | 132228  |
|                                         |                        | Frequency | 1720.0 | 1727.8 | 1735.6  |
|                                         | SCC                    | Channel   | 132216 | 132294 | 132372  |
|                                         |                        | Frequency | 1734.4 | 1742.2 | 1750.0  |
| 10 + 20                                 | PCC                    | Channel   | 132022 | 132100 | 132178  |
|                                         |                        | Frequency | 1715.0 | 1722.8 | 1730.6  |
|                                         | SCC                    | Channel   | 132166 | 132244 | 132322  |
|                                         |                        | Frequency | 1729.4 | 1737.2 | 1745.0  |



| LTE Band 66C Channel and Frequency List |     |           |        |        |        |
|-----------------------------------------|-----|-----------|--------|--------|--------|
| 20 + 5                                  | PCC | Channel   | 132072 | 132397 | 132522 |
|                                         |     | Frequency | 1720.0 | 1752.5 | 1765.0 |
|                                         | SCC | Channel   | 132189 | 132514 | 132639 |
|                                         |     | Frequency | 1731.7 | 1764.2 | 1776.7 |
| 5 + 20                                  | PCC | Channel   | 132005 | 132330 | 132455 |
|                                         |     | Frequency | 1713.3 | 1745.8 | 1758.3 |
|                                         | SCC | Channel   | 132122 | 132447 | 132572 |
|                                         |     | Frequency | 1725.0 | 1757.5 | 1770.0 |
| 15 + 15                                 | PCC | Channel   | 132047 | 132347 | 132447 |
|                                         |     | Frequency | 1717.5 | 1747.5 | 1757.5 |
|                                         | SCC | Channel   | 132197 | 132497 | 132597 |
|                                         |     | Frequency | 1732.5 | 1762.5 | 1772.5 |
| 10 + 15                                 | PCC | Channel   | 132025 | 132351 | 132477 |
|                                         |     | Frequency | 1715.3 | 1747.9 | 1760.5 |
|                                         | SCC | Channel   | 132145 | 132471 | 132597 |
|                                         |     | Frequency | 1727.3 | 1759.9 | 1772.5 |
| 15 + 10                                 | PCC | Channel   | 132047 | 132373 | 132499 |
|                                         |     | Frequency | 1717.5 | 1750.1 | 1762.7 |
|                                         | SCC | Channel   | 132167 | 132493 | 132619 |
|                                         |     | Frequency | 1729.5 | 1761.1 | 1774.7 |

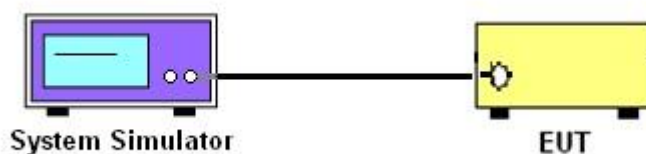
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

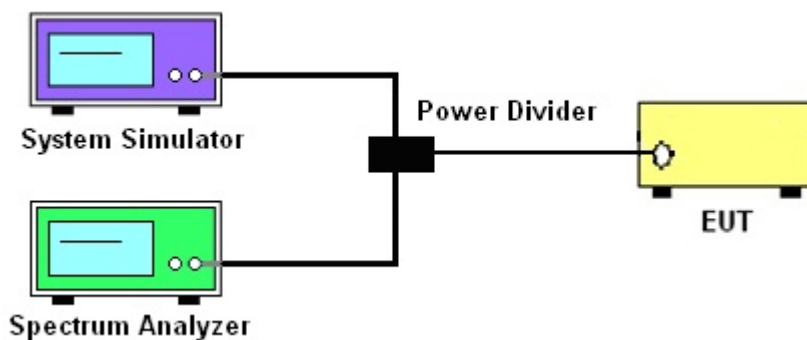
See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

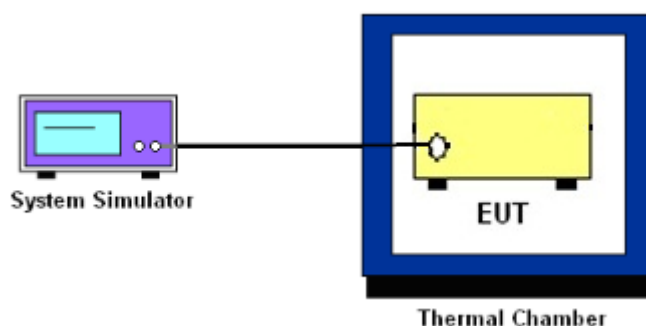
##### 3.1.2 Conducted Output Power



##### 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 Control stations and mobile stations must not exceed 30 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 Fixed 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,  $P(\text{dBW})$ , 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)(2)(v)

For all fixed digital user stations, the attenuation factor shall be not less than  $43 + 10 \log (P)$  dB at the channel edge.

### 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)



## **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.

### **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)



### **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.

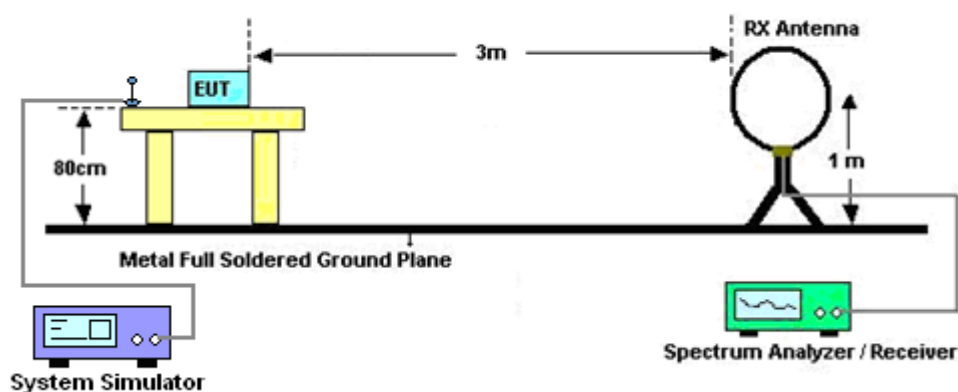
## 4 Radiated Test Items

### 4.1 Measuring Instruments

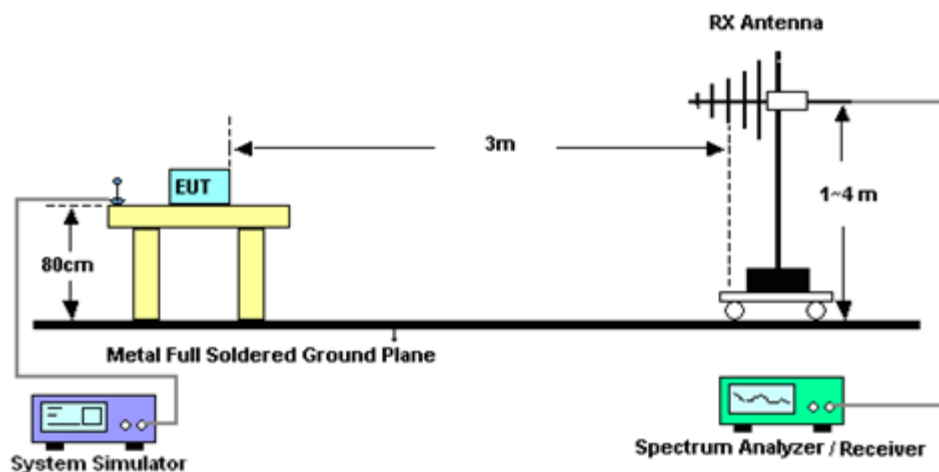
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

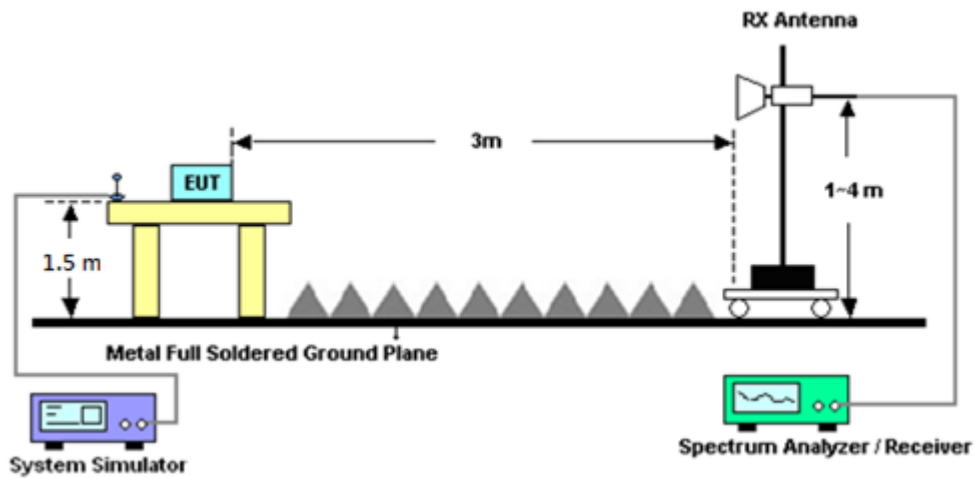
For radiated test below 30MHz



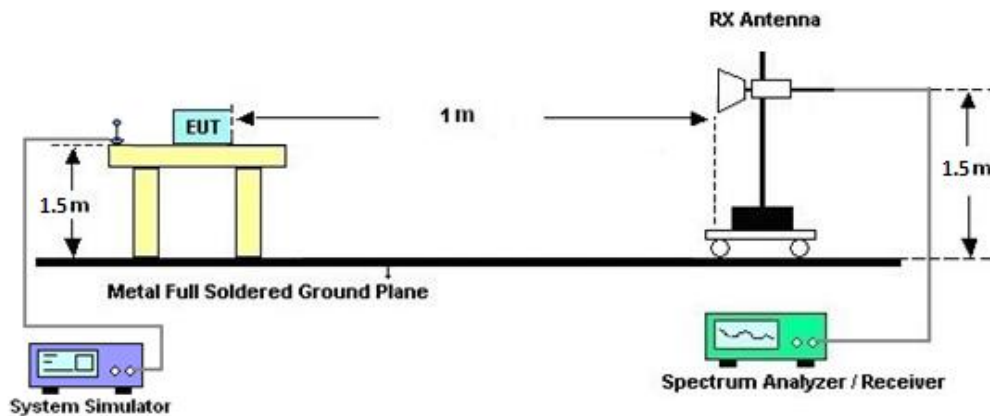
For radiated test from 30MHz to 1GHz



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)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



## 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                           | 100488               | 9 kHz~30 MHz    | Jul. 14, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Jul. 13, 2021 | Radiation<br>(03CH12-HY) |
| Bilog Antenna           | TESEQ             | CBL 6111D &<br>00800N1D01N<br>-06 | 40103 & 07           | 30MHz~1GHz      | Apr. 29, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Apr. 28, 2021 | Radiation<br>(03CH12-HY) |
| Horn Antenna            | SCHWARZBE<br>CK   | BBHA 9120 D                       | 9120D-1328           | 1GHz~18GHz      | Nov. 14, 2019    | Sep. 16, 2020~<br>Nov. 12, 2020 | Nov. 13, 2020 | Radiation<br>(03CH12-HY) |
| Horn Antenna            | SCHWARZBE<br>CK   | BBHA 9120 D                       | 9120D-02037          | 1GHz~18GHz      | Oct. 23, 2020    | Nov. 13, 2020~<br>Mar. 05, 2021 | Oct. 22, 2021 | Radiation<br>(03CH12-HY) |
| Horn Antenna            | SCHWARZBE<br>CK   | BBHA 9120D                        | 9120D-1241           | 1GHz ~ 18GHz    | Jul. 15, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Jul. 14, 2021 | Radiation<br>(03CH12-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK   | BBHA 9170                         | 00993                | 18GHz~40GHz     | Dec. 19, 2020    | Mar. 05, 2021                   | Dec. 18, 2021 | Radiation<br>(03CH12-HY) |
| SHF-EHF Horn<br>Antenna | SCHWARZBE<br>CK   | BBHA 9170                         | BBHA917057<br>6      | 18GHz~40GHz     | May. 22, 2019    | Mar. 05, 2021                   | May. 21, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | COM-POWER         | PA-103                            | 161075               | 10MHz~1GHz      | Mar. 25, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Mar. 24, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | Keysight          | 83017A                            | MY57280120           | 1GHz~26.5GHz    | Jul. 20, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Jul. 19, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | Jet-Power         | JPA0118-55-3<br>03K               | 1710001800<br>054002 | 1GHz~18GHz      | Feb. 07, 2020    | Sep. 16, 2020~<br>Dec. 30, 2020 | Feb. 06, 2021 | Radiation<br>(03CH12-HY) |
| Preamplifier            | EMEC              | EM18G40G                          | 060715               | 18GHz~40GHz     | Dec. 13, 2019    | Sep. 16, 2020~<br>Dec. 11, 2020 | Dec. 12, 2020 | Radiation<br>(03CH12-HY) |
| Preamplifier            | EMEC              | EM18G40G                          | 060801               | 18GHz~40GHz     | Jun. 15, 2020    | Dec. 12, 2020~<br>Mar. 05, 2021 | Jun. 14, 2021 | Radiation<br>(03CH12-HY) |
| Spectrum<br>Analyzer    | Agilent           | N9010A                            | MY54200485           | 10Hz~44GHz      | Feb. 10, 2020    | Sep. 16, 2020~<br>Dec. 30, 2020 | Feb. 09, 2021 | Radiation<br>(03CH12-HY) |
| Spectrum<br>Analyzer    | Agilent           | N9010A                            | MY53470118           | 10Hz~44GHz      | Jan. 15, 2021    | Mar. 05, 2021                   | Jan. 14, 2022 | Radiation<br>(03CH12-HY) |
| Signal<br>Generator     | Anritsu           | MG3694C                           | 163401               | 0.1Hz~40GHz     | Feb. 15, 2020    | Sep. 16, 2020~<br>Dec. 30, 2020 | Feb. 14, 2021 | Radiation<br>(03CH12-HY) |
| Signal<br>Generator     | Anritsu           | MG3694C                           | 163401               | 0.1Hz~40GHz     | Jan. 31, 2021    | Mar. 05, 2021                   | Jan. 30, 2022 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>104                   | MY9837/4PE           | 9kHz~30MHz      | Mar. 12, 2020    | Mar. 05, 2021                   | Mar. 11, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>126E                  | 0058/126E            | 30MHz~18GHz     | Dec. 11, 2020    | Mar. 05, 2021                   | Dec. 10, 2021 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>102                   | 505134/2             | 30MHz~40GHz     | Feb. 22, 2021    | Mar. 05, 2021                   | Feb. 21, 2022 | Radiation<br>(03CH12-HY) |
| RF Cable                | HUBER +<br>SUHNER | SUCOFLEX<br>102                   | 800740/2             | 30MHz~40GHz     | Feb. 22, 2021    | Mar. 05, 2021                   | Feb. 22, 2022 | Radiation<br>(03CH12-HY) |



| Instrument                   | Brand Name         | Model No.                                 | Serial No. | Characteristics                                                                | Calibration Date | Test Date                       | Due Date      | Remark                   |
|------------------------------|--------------------|-------------------------------------------|------------|--------------------------------------------------------------------------------|------------------|---------------------------------|---------------|--------------------------|
| Hygrometer                   | TECPEL             | DTM-303B                                  | TP161243   | N/A                                                                            | Jul. 27, 2020    | Sep. 16, 2020~<br>Mar. 05, 2021 | Jul. 26, 2021 | Radiation<br>(03CH12-HY) |
| Controller                   | EMEC               | EM1000                                    | N/A        | Control Turn<br>table & Ant Mast                                               | N/A              | Sep. 16, 2020~<br>Mar. 05, 2021 | N/A           | Radiation<br>(03CH12-HY) |
| Antenna Mast                 | EMEC               | AM-BS-4500-B                              | N/A        | 1m~4m                                                                          | N/A              | Sep. 16, 2020~<br>Mar. 05, 2021 | N/A           | Radiation<br>(03CH12-HY) |
| Turn Table                   | EMEC               | TT2000                                    | N/A        | 0~360 Degree                                                                   | N/A              | Sep. 16, 2020~<br>Mar. 05, 2021 | N/A           | Radiation<br>(03CH12-HY) |
| Software                     | Audix              | E3<br>6.2009-8-24                         | RK-000989  | N/A                                                                            | N/A              | Sep. 16, 2020~<br>Mar. 05, 2021 | N/A           | Radiation<br>(03CH12-HY) |
| Base Station<br>(Measure)    | Anritsu            | MT8821C                                   | 6262025341 | GSM / GPRS<br>/WCDMA / LTE<br>FDD/TDD with<br>44) /LTE-3CC<br>DLCA,2CC<br>ULCA | Oct. 06, 2020    | Jan. 15, 2021~<br>Mar. 10, 2021 | Oct. 05, 2021 | Conducted<br>(TH02-HY)   |
| Spectrum<br>Analyzer         | Rohde &<br>Schwarz | FSV40                                     | 101908     | 10Hz~40GHz                                                                     | May 13, 2020     | Jan. 15, 2021~<br>Mar. 10, 2021 | May 12, 2021  | Conducted<br>(TH02-HY)   |
| Thermal<br>Chamber           | ESPEC              | SU-241                                    | 92003713   | -40℃~90℃                                                                       | May 15, 2020     | Jan. 15, 2021~<br>Mar. 10, 2021 | May 14, 2021  | Conducted<br>(TH02-HY)   |
| Programmable<br>Power Supply | GW Instek          | GPP-2323                                  | GES906037  | 0V~64V : 0A~6A                                                                 | Dec. 15, 2020    | Jan. 15, 2021~<br>Mar. 10, 2021 | Dec. 14, 2021 | Conducted<br>(TH02-HY)   |
| Coupler                      | Warison            | 20dB 25W<br>SMA<br>Directional<br>Coupler | #A         | 1-18GHz                                                                        | Jan. 12, 2021    | Jan. 15, 2021~<br>Mar. 10, 2021 | Jan. 11, 2022 | Conducted<br>(TH02-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 & ERP/EIRP)

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                        | 1         | 0         | QPSK   | 23.25  | 23.00  | 22.90   | 32.35      | 1.7179   |
| 20                                                        | 1         | 49        |        | 23.12  | 22.92  | 22.82   |            |          |
| 20                                                        | 1         | 99        |        | 23.21  | 23.03  | 22.92   |            |          |
| 20                                                        | 50        | 0         |        | 22.20  | 22.11  | 21.95   |            |          |
| 20                                                        | 50        | 24        |        | 22.35  | 22.13  | 22.01   |            |          |
| 20                                                        | 50        | 50        |        | 22.28  | 22.19  | 22.04   |            |          |
| 20                                                        | 100       | 0         |        | 22.30  | 22.10  | 21.97   |            |          |
| 20                                                        | 1         | 0         | 16-QAM | 22.62  | 22.43  | 22.29   | 31.72      | 1.4859   |
| 20                                                        | 1         | 49        |        | 22.47  | 22.39  | 22.26   |            |          |
| 20                                                        | 1         | 99        |        | 22.45  | 22.28  | 22.35   |            |          |
| 20                                                        | 50        | 0         |        | 21.19  | 21.11  | 21.02   |            |          |
| 20                                                        | 50        | 24        |        | 21.24  | 21.14  | 21.02   |            |          |
| 20                                                        | 50        | 50        |        | 21.33  | 21.19  | 21.00   |            |          |
| 20                                                        | 100       | 0         |        | 21.31  | 21.07  | 20.95   |            |          |
| 20                                                        | 1         | 0         | 64-QAM | 21.40  | 21.29  | 21.17   | 30.7       | 1.1749   |
| 20                                                        | 1         | 49        |        | 21.60  | 21.18  | 21.24   |            |          |
| 20                                                        | 1         | 99        |        | 21.55  | 21.35  | 21.22   |            |          |
| 20                                                        | 50        | 0         |        | 20.15  | 20.10  | 19.97   |            |          |
| 20                                                        | 50        | 24        |        | 20.37  | 20.18  | 20.03   |            |          |
| 20                                                        | 50        | 50        |        | 20.35  | 20.20  | 20.07   |            |          |
| 20                                                        | 100       | 0         |        | 20.39  | 20.09  | 20.03   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                        | 1         | 0         | QPSK   | 23.10  | 23.02  | 22.77   | 32.3       | 1.6982   |
| 15                                                        | 1         | 37        |        | 23.15  | 23.02  | 22.82   |            |          |
| 15                                                        | 1         | 74        |        | 23.20  | 23.00  | 22.83   |            |          |
| 15                                                        | 36        | 0         |        | 22.22  | 22.03  | 21.91   |            |          |
| 15                                                        | 36        | 20        |        | 22.34  | 22.10  | 21.99   |            |          |
| 15                                                        | 36        | 39        |        | 22.31  | 22.14  | 22.00   |            |          |
| 15                                                        | 75        | 0         |        | 22.29  | 22.04  | 21.96   |            |          |
| 15                                                        | 1         | 0         | 16-QAM | 22.54  | 22.39  | 22.25   | 31.7       | 1.4791   |
| 15                                                        | 1         | 37        |        | 22.41  | 22.18  | 22.20   |            |          |
| 15                                                        | 1         | 74        |        | 22.60  | 22.36  | 22.01   |            |          |
| 15                                                        | 36        | 0         |        | 21.34  | 21.08  | 20.95   |            |          |
| 15                                                        | 36        | 20        |        | 21.29  | 21.07  | 21.00   |            |          |
| 15                                                        | 36        | 39        |        | 21.38  | 21.17  | 21.03   |            |          |
| 15                                                        | 75        | 0         |        | 21.28  | 21.02  | 21.00   |            |          |
| 15                                                        | 1         | 0         | 64-QAM | 21.05  | 21.31  | 21.14   | 30.56      | 1.1376   |
| 15                                                        | 1         | 37        |        | 21.33  | 21.01  | 21.15   |            |          |
| 15                                                        | 1         | 74        |        | 21.46  | 21.44  | 21.09   |            |          |
| 15                                                        | 36        | 0         |        | 20.26  | 20.13  | 19.93   |            |          |
| 15                                                        | 36        | 20        |        | 20.38  | 20.14  | 19.98   |            |          |
| 15                                                        | 36        | 39        |        | 20.33  | 20.15  | 20.06   |            |          |
| 15                                                        | 75        | 0         |        | 20.33  | 20.19  | 19.99   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                        | 1         | 0         | QPSK   | 23.15  | 22.92  | 22.65   | 32.33      | 1.7100   |
| 10                                                        | 1         | 25        |        | 23.18  | 22.85  | 22.72   |            |          |
| 10                                                        | 1         | 49        |        | 23.23  | 22.98  | 22.87   |            |          |
| 10                                                        | 25        | 0         |        | 22.18  | 21.96  | 21.83   |            |          |
| 10                                                        | 25        | 12        |        | 22.30  | 22.04  | 21.84   |            |          |
| 10                                                        | 25        | 25        |        | 22.26  | 22.09  | 21.95   |            |          |
| 10                                                        | 50        | 0         |        | 22.24  | 22.05  | 21.92   |            |          |
| 10                                                        | 1         | 0         | 16-QAM | 22.43  | 22.31  | 22.13   | 31.62      | 1.4521   |
| 10                                                        | 1         | 25        |        | 22.42  | 22.41  | 22.09   |            |          |
| 10                                                        | 1         | 49        |        | 22.52  | 22.23  | 22.16   |            |          |
| 10                                                        | 25        | 0         |        | 21.28  | 20.96  | 20.84   |            |          |
| 10                                                        | 25        | 12        |        | 21.27  | 21.10  | 20.96   |            |          |
| 10                                                        | 25        | 25        |        | 21.34  | 21.11  | 20.97   |            |          |
| 10                                                        | 50        | 0         |        | 21.31  | 21.08  | 20.86   |            |          |
| 10                                                        | 1         | 0         | 64-QAM | 21.47  | 21.21  | 21.18   | 30.61      | 1.1508   |
| 10                                                        | 1         | 25        |        | 21.44  | 21.16  | 21.02   |            |          |
| 10                                                        | 1         | 49        |        | 21.51  | 21.13  | 21.01   |            |          |
| 10                                                        | 25        | 0         |        | 20.23  | 20.05  | 19.86   |            |          |
| 10                                                        | 25        | 12        |        | 20.33  | 20.07  | 20.02   |            |          |
| 10                                                        | 25        | 25        |        | 20.34  | 20.15  | 19.88   |            |          |
| 10                                                        | 50        | 0         |        | 20.26  | 20.07  | 20.00   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                         | 1         | 0         | QPSK   | 23.16  | 22.93  | 22.73   | 32.27      | 1.6866   |
| 5                                                         | 1         | 12        |        | 23.08  | 23.17  | 22.77   |            |          |
| 5                                                         | 1         | 24        |        | 23.16  | 23.04  | 22.80   |            |          |
| 5                                                         | 12        | 0         |        | 22.16  | 22.04  | 21.85   |            |          |
| 5                                                         | 12        | 7         |        | 22.29  | 22.11  | 21.90   |            |          |
| 5                                                         | 12        | 13        |        | 22.32  | 22.05  | 21.85   |            |          |
| 5                                                         | 25        | 0         |        | 22.20  | 22.03  | 21.79   |            |          |
| 5                                                         | 1         | 0         | 16-QAM | 22.50  | 22.31  | 22.04   | 31.8       | 1.5136   |
| 5                                                         | 1         | 12        |        | 22.40  | 22.39  | 22.04   |            |          |
| 5                                                         | 1         | 24        |        | 22.70  | 22.26  | 22.24   |            |          |
| 5                                                         | 12        | 0         |        | 21.21  | 21.05  | 20.83   |            |          |
| 5                                                         | 12        | 7         |        | 21.29  | 21.14  | 20.91   |            |          |
| 5                                                         | 12        | 13        |        | 21.35  | 21.12  | 20.92   |            |          |
| 5                                                         | 25        | 0         |        | 21.28  | 21.11  | 20.86   |            |          |
| 5                                                         | 1         | 0         | 64-QAM | 21.32  | 21.27  | 21.08   | 30.47      | 1.1143   |
| 5                                                         | 1         | 12        |        | 21.35  | 21.30  | 21.05   |            |          |
| 5                                                         | 1         | 24        |        | 21.37  | 21.31  | 21.12   |            |          |
| 5                                                         | 12        | 0         |        | 20.25  | 20.10  | 19.95   |            |          |
| 5                                                         | 12        | 7         |        | 20.34  | 20.14  | 19.90   |            |          |
| 5                                                         | 12        | 13        |        | 20.32  | 20.16  | 19.96   |            |          |
| 5                                                         | 25        | 0         |        | 20.31  | 20.09  | 19.88   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                         | 1         | 0         | QPSK   | 23.06  | 22.97  | 22.68   | 32.23      | 1.6711   |
| 3                                                         | 1         | 8         |        | 23.13  | 22.95  | 22.67   |            |          |
| 3                                                         | 1         | 14        |        | 23.12  | 22.97  | 22.73   |            |          |
| 3                                                         | 8         | 0         |        | 22.21  | 22.04  | 21.73   |            |          |
| 3                                                         | 8         | 4         |        | 22.23  | 22.12  | 21.83   |            |          |
| 3                                                         | 8         | 7         |        | 22.24  | 22.07  | 21.82   |            |          |
| 3                                                         | 15        | 0         |        | 22.16  | 22.00  | 21.86   |            |          |
| 3                                                         | 1         | 0         | 16-QAM | 22.52  | 22.38  | 22.05   | 31.62      | 1.4521   |
| 3                                                         | 1         | 8         |        | 22.41  | 22.18  | 22.05   |            |          |
| 3                                                         | 1         | 14        |        | 22.42  | 22.42  | 22.19   |            |          |
| 3                                                         | 8         | 0         |        | 21.26  | 21.18  | 20.81   |            |          |
| 3                                                         | 8         | 4         |        | 21.28  | 21.18  | 20.94   |            |          |
| 3                                                         | 8         | 7         |        | 21.29  | 21.13  | 20.86   |            |          |
| 3                                                         | 15        | 0         |        | 21.22  | 21.10  | 20.83   |            |          |
| 3                                                         | 1         | 0         | 64-QAM | 21.57  | 21.20  | 20.98   | 30.67      | 1.1668   |
| 3                                                         | 1         | 8         |        | 21.39  | 21.22  | 20.99   |            |          |
| 3                                                         | 1         | 14        |        | 21.52  | 21.20  | 21.18   |            |          |
| 3                                                         | 8         | 0         |        | 20.29  | 20.08  | 19.87   |            |          |
| 3                                                         | 8         | 4         |        | 20.38  | 20.21  | 19.94   |            |          |
| 3                                                         | 8         | 7         |        | 20.34  | 20.18  | 19.93   |            |          |
| 3                                                         | 15        | 0         |        | 20.36  | 20.14  | 19.83   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                       | 1         | 0         | QPSK   | 23.03  | 22.91  | 22.62   | 32.34      | 1.7140   |
| 1.4                                                       | 1         | 3         |        | 23.24  | 23.00  | 22.76   |            |          |
| 1.4                                                       | 1         | 5         |        | 23.12  | 22.89  | 22.69   |            |          |
| 1.4                                                       | 3         | 0         |        | 23.06  | 22.92  | 22.64   |            |          |
| 1.4                                                       | 3         | 1         |        | 23.11  | 22.98  | 22.73   |            |          |
| 1.4                                                       | 3         | 3         |        | 23.10  | 22.97  | 22.76   |            |          |
| 1.4                                                       | 6         | 0         |        | 22.20  | 21.96  | 21.70   |            |          |
| 1.4                                                       | 1         | 0         | 16-QAM | 22.37  | 22.16  | 22.01   | 31.58      | 1.4388   |
| 1.4                                                       | 1         | 3         |        | 22.46  | 22.37  | 22.04   |            |          |
| 1.4                                                       | 1         | 5         |        | 22.48  | 22.20  | 22.07   |            |          |
| 1.4                                                       | 3         | 0         |        | 22.20  | 22.10  | 21.84   |            |          |
| 1.4                                                       | 3         | 1         |        | 22.24  | 22.17  | 21.89   |            |          |
| 1.4                                                       | 3         | 3         |        | 22.24  | 22.15  | 21.88   |            |          |
| 1.4                                                       | 6         | 0         |        | 21.26  | 21.01  | 20.82   |            |          |
| 1.4                                                       | 1         | 0         | 64-QAM | 21.11  | 21.28  | 20.79   | 30.55      | 1.1350   |
| 1.4                                                       | 1         | 3         |        | 21.45  | 21.17  | 21.02   |            |          |
| 1.4                                                       | 1         | 5         |        | 21.26  | 21.20  | 21.02   |            |          |
| 1.4                                                       | 3         | 0         |        | 21.33  | 21.16  | 20.83   |            |          |
| 1.4                                                       | 3         | 1         |        | 21.26  | 21.20  | 20.83   |            |          |
| 1.4                                                       | 3         | 3         |        | 21.40  | 21.11  | 20.91   |            |          |
| 1.4                                                       | 6         | 0         |        | 20.27  | 20.07  | 19.76   |            |          |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 23.52  | 23.16  | 22.81   | 32.62      | 1.8281   |
| 20                                                         | 1         | 49        |        | 23.16  | 23.11  | 22.75   |            |          |
| 20                                                         | 1         | 99        |        | 23.25  | 23.05  | 22.83   |            |          |
| 20                                                         | 50        | 0         |        | 22.27  | 22.22  | 21.91   |            |          |
| 20                                                         | 50        | 24        |        | 22.44  | 22.17  | 22.02   |            |          |
| 20                                                         | 50        | 50        |        | 22.35  | 22.18  | 22.01   |            |          |
| 20                                                         | 100       | 0         |        | 22.32  | 22.20  | 22.00   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 22.52  | 22.34  | 22.26   | 31.77      | 1.5031   |
| 20                                                         | 1         | 49        |        | 22.67  | 22.40  | 22.27   |            |          |
| 20                                                         | 1         | 99        |        | 22.57  | 22.32  | 22.20   |            |          |
| 20                                                         | 50        | 0         |        | 21.24  | 21.23  | 21.02   |            |          |
| 20                                                         | 50        | 24        |        | 21.43  | 20.95  | 21.00   |            |          |
| 20                                                         | 50        | 50        |        | 21.44  | 21.13  | 20.97   |            |          |
| 20                                                         | 100       | 0         |        | 21.42  | 21.19  | 20.99   |            |          |
| 20                                                         | 1         | 0         | 64-QAM | 21.29  | 21.35  | 21.11   | 30.64      | 1.1588   |
| 20                                                         | 1         | 49        |        | 21.38  | 21.33  | 20.93   |            |          |
| 20                                                         | 1         | 99        |        | 21.54  | 21.36  | 21.13   |            |          |
| 20                                                         | 50        | 0         |        | 20.40  | 20.19  | 20.06   |            |          |
| 20                                                         | 50        | 24        |        | 20.42  | 20.28  | 20.07   |            |          |
| 20                                                         | 50        | 50        |        | 20.34  | 20.14  | 20.07   |            |          |
| 20                                                         | 100       | 0         |        | 20.37  | 20.22  | 20.03   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 23.15  | 23.13  | 22.83   | 32.45      | 1.7579   |
| 15                                                         | 1         | 37        |        | 23.35  | 23.13  | 22.91   |            |          |
| 15                                                         | 1         | 74        |        | 23.28  | 23.04  | 22.88   |            |          |
| 15                                                         | 36        | 0         |        | 22.44  | 22.29  | 22.04   |            |          |
| 15                                                         | 36        | 20        |        | 22.44  | 22.20  | 22.05   |            |          |
| 15                                                         | 36        | 39        |        | 22.46  | 22.15  | 21.95   |            |          |
| 15                                                         | 75        | 0         |        | 22.42  | 22.14  | 22.02   |            |          |
| 15                                                         | 1         | 0         | 16-QAM | 22.69  | 22.67  | 22.11   | 31.79      | 1.5101   |
| 15                                                         | 1         | 37        |        | 22.58  | 22.52  | 22.36   |            |          |
| 15                                                         | 1         | 74        |        | 22.57  | 22.38  | 22.10   |            |          |
| 15                                                         | 36        | 0         |        | 21.51  | 21.22  | 21.01   |            |          |
| 15                                                         | 36        | 20        |        | 21.45  | 21.27  | 20.99   |            |          |
| 15                                                         | 36        | 39        |        | 21.43  | 21.14  | 21.02   |            |          |
| 15                                                         | 75        | 0         |        | 21.45  | 21.21  | 20.98   |            |          |
| 15                                                         | 1         | 0         | 64-QAM | 21.67  | 21.45  | 21.24   | 30.80      | 1.2023   |
| 15                                                         | 1         | 37        |        | 21.70  | 21.33  | 21.23   |            |          |
| 15                                                         | 1         | 74        |        | 21.65  | 21.20  | 21.06   |            |          |
| 15                                                         | 36        | 0         |        | 20.51  | 20.29  | 20.09   |            |          |
| 15                                                         | 36        | 20        |        | 20.53  | 20.21  | 20.09   |            |          |
| 15                                                         | 36        | 39        |        | 20.48  | 20.19  | 19.99   |            |          |
| 15                                                         | 75        | 0         |        | 20.54  | 20.29  | 20.04   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 23.37  | 23.17  | 22.92   | 32.61      | 1.8239   |
| 10                                                         | 1         | 25        |        | 23.51  | 23.27  | 22.93   |            |          |
| 10                                                         | 1         | 49        |        | 23.24  | 23.14  | 22.97   |            |          |
| 10                                                         | 25        | 0         |        | 22.42  | 22.25  | 22.03   |            |          |
| 10                                                         | 25        | 12        |        | 22.53  | 22.28  | 22.03   |            |          |
| 10                                                         | 25        | 25        |        | 22.57  | 22.24  | 22.06   |            |          |
| 10                                                         | 50        | 0         |        | 22.39  | 22.17  | 21.94   |            |          |
| 10                                                         | 1         | 0         | 16-QAM | 22.82  | 22.34  | 22.21   | 31.92      | 1.5560   |
| 10                                                         | 1         | 25        |        | 22.41  | 22.36  | 22.19   |            |          |
| 10                                                         | 1         | 49        |        | 22.54  | 22.43  | 22.32   |            |          |
| 10                                                         | 25        | 0         |        | 21.47  | 21.28  | 20.99   |            |          |
| 10                                                         | 25        | 12        |        | 21.52  | 21.30  | 21.05   |            |          |
| 10                                                         | 25        | 25        |        | 21.47  | 21.20  | 21.05   |            |          |
| 10                                                         | 50        | 0         |        | 21.55  | 21.23  | 20.99   |            |          |
| 10                                                         | 1         | 0         | 64-QAM | 21.61  | 21.46  | 21.12   | 30.83      | 1.2106   |
| 10                                                         | 1         | 25        |        | 21.73  | 21.42  | 21.26   |            |          |
| 10                                                         | 1         | 49        |        | 21.73  | 21.38  | 21.19   |            |          |
| 10                                                         | 25        | 0         |        | 20.51  | 20.23  | 20.07   |            |          |
| 10                                                         | 25        | 12        |        | 20.55  | 20.20  | 20.07   |            |          |
| 10                                                         | 25        | 25        |        | 20.46  | 20.26  | 20.03   |            |          |
| 10                                                         | 50        | 0         |        | 20.47  | 20.28  | 20.04   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.39  | 23.18  | 22.96   | 32.53      | 1.7906   |
| 5                                                          | 1         | 12        |        | 23.39  | 23.30  | 22.86   |            |          |
| 5                                                          | 1         | 24        |        | 23.43  | 23.27  | 23.02   |            |          |
| 5                                                          | 12        | 0         |        | 22.43  | 22.22  | 21.96   |            |          |
| 5                                                          | 12        | 7         |        | 22.55  | 22.35  | 22.12   |            |          |
| 5                                                          | 12        | 13        |        | 22.53  | 22.40  | 22.12   |            |          |
| 5                                                          | 25        | 0         |        | 22.54  | 22.23  | 22.01   |            |          |
| 5                                                          | 1         | 0         | 16-QAM | 22.61  | 22.57  | 22.27   | 31.83      | 1.5241   |
| 5                                                          | 1         | 12        |        | 22.60  | 22.58  | 22.34   |            |          |
| 5                                                          | 1         | 24        |        | 22.73  | 22.73  | 22.29   |            |          |
| 5                                                          | 12        | 0         |        | 21.49  | 21.34  | 21.01   |            |          |
| 5                                                          | 12        | 7         |        | 21.60  | 21.47  | 21.14   |            |          |
| 5                                                          | 12        | 13        |        | 21.55  | 21.35  | 21.13   |            |          |
| 5                                                          | 25        | 0         |        | 21.53  | 21.32  | 21.12   |            |          |
| 5                                                          | 1         | 0         | 64-QAM | 21.67  | 21.37  | 21.29   | 30.95      | 1.2445   |
| 5                                                          | 1         | 12        |        | 21.75  | 21.43  | 21.07   |            |          |
| 5                                                          | 1         | 24        |        | 21.85  | 21.64  | 21.29   |            |          |
| 5                                                          | 12        | 0         |        | 20.54  | 20.29  | 20.04   |            |          |
| 5                                                          | 12        | 7         |        | 20.61  | 20.47  | 20.17   |            |          |
| 5                                                          | 12        | 13        |        | 20.67  | 20.41  | 20.18   |            |          |
| 5                                                          | 25        | 0         |        | 20.50  | 20.32  | 20.17   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 23.22  | 23.00  | 22.74   | 32.43      | 1.7498   |
| 3                                                          | 1         | 8         |        | 23.28  | 23.12  | 22.71   |            |          |
| 3                                                          | 1         | 14        |        | 23.33  | 23.17  | 22.78   |            |          |
| 3                                                          | 8         | 0         |        | 22.29  | 22.03  | 21.83   |            |          |
| 3                                                          | 8         | 4         |        | 22.33  | 22.16  | 21.87   |            |          |
| 3                                                          | 8         | 7         |        | 22.37  | 22.13  | 21.85   |            |          |
| 3                                                          | 15        | 0         |        | 22.34  | 22.08  | 21.87   |            |          |
| 3                                                          | 1         | 0         | 16-QAM | 22.48  | 22.25  | 22.01   | 31.78      | 1.5066   |
| 3                                                          | 1         | 8         |        | 22.68  | 22.30  | 22.12   |            |          |
| 3                                                          | 1         | 14        |        | 22.62  | 22.40  | 22.22   |            |          |
| 3                                                          | 8         | 0         |        | 21.34  | 21.10  | 20.89   |            |          |
| 3                                                          | 8         | 4         |        | 21.42  | 21.10  | 20.94   |            |          |
| 3                                                          | 8         | 7         |        | 21.44  | 21.17  | 20.94   |            |          |
| 3                                                          | 15        | 0         |        | 21.42  | 21.17  | 20.96   |            |          |
| 3                                                          | 1         | 0         | 64-QAM | 21.50  | 21.36  | 21.10   | 30.92      | 1.2359   |
| 3                                                          | 1         | 8         |        | 21.56  | 21.49  | 20.94   |            |          |
| 3                                                          | 1         | 14        |        | 21.82  | 21.46  | 21.18   |            |          |
| 3                                                          | 8         | 0         |        | 20.40  | 20.16  | 19.80   |            |          |
| 3                                                          | 8         | 4         |        | 20.42  | 20.20  | 19.99   |            |          |
| 3                                                          | 8         | 7         |        | 20.40  | 20.21  | 19.99   |            |          |
| 3                                                          | 15        | 0         |        | 20.34  | 20.14  | 19.92   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = 9.1 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 23.14  | 22.93  | 22.68   | 32.40      | 1.7378   |
| 1.4                                                        | 1         | 3         |        | 23.30  | 22.98  | 22.71   |            |          |
| 1.4                                                        | 1         | 5         |        | 23.15  | 22.97  | 22.72   |            |          |
| 1.4                                                        | 3         | 0         |        | 23.19  | 22.90  | 22.69   |            |          |
| 1.4                                                        | 3         | 1         |        | 23.28  | 23.00  | 22.72   |            |          |
| 1.4                                                        | 3         | 3         |        | 23.23  | 23.00  | 22.74   |            |          |
| 1.4                                                        | 6         | 0         |        | 22.06  | 22.03  | 21.76   |            |          |
| 1.4                                                        | 1         | 0         | 16-QAM | 22.46  | 22.22  | 21.93   | 31.67      | 1.4689   |
| 1.4                                                        | 1         | 3         |        | 22.51  | 22.38  | 22.06   |            |          |
| 1.4                                                        | 1         | 5         |        | 22.57  | 22.33  | 22.09   |            |          |
| 1.4                                                        | 3         | 0         |        | 22.20  | 22.15  | 21.84   |            |          |
| 1.4                                                        | 3         | 1         |        | 22.32  | 22.15  | 21.91   |            |          |
| 1.4                                                        | 3         | 3         |        | 22.39  | 22.23  | 21.91   |            |          |
| 1.4                                                        | 6         | 0         |        | 21.19  | 21.20  | 20.80   |            |          |
| 1.4                                                        | 1         | 0         | 64-QAM | 21.50  | 21.20  | 20.98   | 30.71      | 1.1776   |
| 1.4                                                        | 1         | 3         |        | 21.39  | 21.24  | 20.92   |            |          |
| 1.4                                                        | 1         | 5         |        | 21.61  | 21.40  | 21.06   |            |          |
| 1.4                                                        | 3         | 0         |        | 21.34  | 21.21  | 20.89   |            |          |
| 1.4                                                        | 3         | 1         |        | 21.31  | 21.21  | 20.87   |            |          |
| 1.4                                                        | 3         | 3         |        | 21.37  | 21.14  | 20.88   |            |          |
| 1.4                                                        | 6         | 0         |        | 20.28  | 20.14  | 19.77   |            |          |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                        | 1         | 0         | QPSK   | 21.46  | 21.05  | 21.27   | 29.96      | 0.9908   |
| 20                                                        | 1         | 49        |        | 21.27  | 20.98  | 21.14   |            |          |
| 20                                                        | 1         | 99        |        | 21.26  | 21.13  | 21.35   |            |          |
| 20                                                        | 50        | 0         |        | 20.38  | 20.24  | 20.22   |            |          |
| 20                                                        | 50        | 24        |        | 20.35  | 20.18  | 20.43   |            |          |
| 20                                                        | 50        | 50        |        | 20.14  | 20.08  | 20.34   |            |          |
| 20                                                        | 100       | 0         |        | 20.36  | 20.25  | 20.33   |            |          |
| 20                                                        | 1         | 0         | 16-QAM | 20.66  | 20.50  | 20.40   | 29.18      | 0.8279   |
| 20                                                        | 1         | 49        |        | 20.68  | 20.31  | 20.45   |            |          |
| 20                                                        | 1         | 99        |        | 20.60  | 20.45  | 20.46   |            |          |
| 20                                                        | 50        | 0         |        | 19.43  | 19.25  | 19.25   |            |          |
| 20                                                        | 50        | 24        |        | 19.24  | 19.23  | 19.40   |            |          |
| 20                                                        | 50        | 50        |        | 19.19  | 19.35  | 19.38   |            |          |
| 20                                                        | 100       | 0         |        | 19.28  | 19.24  | 19.21   |            |          |
| 20                                                        | 1         | 0         | 64-QAM | 19.59  | 19.41  | 19.40   | 28.09      | 0.6442   |
| 20                                                        | 1         | 49        |        | 19.32  | 19.49  | 19.38   |            |          |
| 20                                                        | 1         | 99        |        | 19.54  | 19.55  | 19.39   |            |          |
| 20                                                        | 50        | 0         |        | 18.40  | 18.32  | 18.30   |            |          |
| 20                                                        | 50        | 24        |        | 18.28  | 18.36  | 18.34   |            |          |
| 20                                                        | 50        | 50        |        | 18.23  | 18.26  | 18.45   |            |          |
| 20                                                        | 100       | 0         |        | 18.24  | 18.20  | 18.33   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                        | 1         | 0         | QPSK   | 21.45  | 21.18  | 21.23   | 29.95      | 0.9886   |
| 15                                                        | 1         | 37        |        | 21.26  | 21.08  | 21.26   |            |          |
| 15                                                        | 1         | 74        |        | 21.13  | 21.13  | 21.29   |            |          |
| 15                                                        | 36        | 0         |        | 20.38  | 20.21  | 20.31   |            |          |
| 15                                                        | 36        | 20        |        | 20.30  | 20.15  | 20.28   |            |          |
| 15                                                        | 36        | 39        |        | 20.26  | 20.18  | 20.30   |            |          |
| 15                                                        | 75        | 0         |        | 20.30  | 20.19  | 20.31   |            |          |
| 15                                                        | 1         | 0         | 16-QAM | 20.86  | 20.54  | 20.48   | 29.36      | 0.8630   |
| 15                                                        | 1         | 37        |        | 20.55  | 20.25  | 20.50   |            |          |
| 15                                                        | 1         | 74        |        | 20.58  | 20.36  | 20.55   |            |          |
| 15                                                        | 36        | 0         |        | 19.47  | 19.26  | 19.29   |            |          |
| 15                                                        | 36        | 20        |        | 19.35  | 19.26  | 19.30   |            |          |
| 15                                                        | 36        | 39        |        | 19.29  | 19.15  | 19.34   |            |          |
| 15                                                        | 75        | 0         |        | 19.39  | 19.26  | 19.35   |            |          |
| 15                                                        | 1         | 0         | 64-QAM | 19.65  | 19.39  | 19.30   | 28.15      | 0.6531   |
| 15                                                        | 1         | 37        |        | 19.51  | 19.47  | 19.46   |            |          |
| 15                                                        | 1         | 74        |        | 19.55  | 19.52  | 19.58   |            |          |
| 15                                                        | 36        | 0         |        | 18.42  | 18.16  | 18.33   |            |          |
| 15                                                        | 36        | 20        |        | 18.39  | 18.27  | 18.19   |            |          |
| 15                                                        | 36        | 39        |        | 18.29  | 18.22  | 18.45   |            |          |
| 15                                                        | 75        | 0         |        | 18.28  | 18.27  | 18.33   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                        | 1         | 0         | QPSK   | 21.30  | 21.15  | 21.28   | 29.86      | 0.9683   |
| 10                                                        | 1         | 25        |        | 21.34  | 21.08  | 21.35   |            |          |
| 10                                                        | 1         | 49        |        | 21.21  | 21.11  | 21.36   |            |          |
| 10                                                        | 25        | 0         |        | 20.37  | 20.15  | 20.27   |            |          |
| 10                                                        | 25        | 12        |        | 20.34  | 20.23  | 20.31   |            |          |
| 10                                                        | 25        | 25        |        | 20.40  | 20.18  | 20.33   |            |          |
| 10                                                        | 50        | 0         |        | 20.37  | 20.28  | 20.37   |            |          |
| 10                                                        | 1         | 0         | 16-QAM | 20.73  | 20.40  | 20.72   | 29.23      | 0.8375   |
| 10                                                        | 1         | 25        |        | 20.72  | 20.33  | 20.60   |            |          |
| 10                                                        | 1         | 49        |        | 20.44  | 20.44  | 20.56   |            |          |
| 10                                                        | 25        | 0         |        | 19.45  | 19.15  | 19.31   |            |          |
| 10                                                        | 25        | 12        |        | 19.41  | 19.27  | 19.40   |            |          |
| 10                                                        | 25        | 25        |        | 19.38  | 19.26  | 19.44   |            |          |
| 10                                                        | 50        | 0         |        | 19.36  | 19.26  | 19.32   |            |          |
| 10                                                        | 1         | 0         | 64-QAM | 19.61  | 19.32  | 19.45   | 28.22      | 0.6637   |
| 10                                                        | 1         | 25        |        | 19.72  | 19.35  | 19.66   |            |          |
| 10                                                        | 1         | 49        |        | 19.59  | 19.40  | 19.71   |            |          |
| 10                                                        | 25        | 0         |        | 18.39  | 18.22  | 18.35   |            |          |
| 10                                                        | 25        | 12        |        | 18.39  | 18.33  | 18.36   |            |          |
| 10                                                        | 25        | 25        |        | 18.40  | 18.31  | 18.37   |            |          |
| 10                                                        | 50        | 0         |        | 18.36  | 18.25  | 18.34   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                         | 1         | 0         | QPSK   | 21.37  | 21.08  | 21.28   | 29.95      | 0.9886   |
| 5                                                         | 1         | 12        |        | 21.36  | 21.10  | 21.27   |            |          |
| 5                                                         | 1         | 24        |        | 21.45  | 21.14  | 21.37   |            |          |
| 5                                                         | 12        | 0         |        | 20.44  | 20.18  | 20.32   |            |          |
| 5                                                         | 12        | 7         |        | 20.47  | 20.23  | 20.34   |            |          |
| 5                                                         | 12        | 13        |        | 20.51  | 20.25  | 20.38   |            |          |
| 5                                                         | 25        | 0         |        | 20.39  | 20.17  | 20.37   |            |          |
| 5                                                         | 1         | 0         | 16-QAM | 20.81  | 20.34  | 20.58   | 29.33      | 0.8570   |
| 5                                                         | 1         | 12        |        | 20.62  | 20.43  | 20.46   |            |          |
| 5                                                         | 1         | 24        |        | 20.83  | 20.48  | 20.60   |            |          |
| 5                                                         | 12        | 0         |        | 19.47  | 19.22  | 19.51   |            |          |
| 5                                                         | 12        | 7         |        | 19.50  | 19.27  | 19.41   |            |          |
| 5                                                         | 12        | 13        |        | 19.48  | 19.26  | 19.37   |            |          |
| 5                                                         | 25        | 0         |        | 19.44  | 19.23  | 19.37   |            |          |
| 5                                                         | 1         | 0         | 64-QAM | 19.67  | 19.50  | 19.55   | 28.32      | 0.6792   |
| 5                                                         | 1         | 12        |        | 19.82  | 19.33  | 19.48   |            |          |
| 5                                                         | 1         | 24        |        | 19.77  | 19.53  | 19.56   |            |          |
| 5                                                         | 12        | 0         |        | 18.47  | 18.25  | 18.40   |            |          |
| 5                                                         | 12        | 7         |        | 18.52  | 18.23  | 18.46   |            |          |
| 5                                                         | 12        | 13        |        | 18.49  | 18.32  | 18.43   |            |          |
| 5                                                         | 25        | 0         |        | 18.46  | 18.26  | 18.49   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                         | 1         | 0         | QPSK   | 21.35  | 21.04  | 21.27   | 29.85      | 0.9661   |
| 3                                                         | 1         | 8         |        | 21.33  | 21.11  | 21.28   |            |          |
| 3                                                         | 1         | 14        |        | 21.32  | 21.14  | 21.30   |            |          |
| 3                                                         | 8         | 0         |        | 20.45  | 20.10  | 20.35   |            |          |
| 3                                                         | 8         | 4         |        | 20.46  | 20.16  | 20.37   |            |          |
| 3                                                         | 8         | 7         |        | 20.42  | 20.20  | 20.35   |            |          |
| 3                                                         | 15        | 0         |        | 20.43  | 20.13  | 20.33   |            |          |
| 3                                                         | 1         | 0         | 16-QAM | 20.70  | 20.40  | 20.67   | 29.24      | 0.8395   |
| 3                                                         | 1         | 8         |        | 20.58  | 20.52  | 20.46   |            |          |
| 3                                                         | 1         | 14        |        | 20.74  | 20.45  | 20.65   |            |          |
| 3                                                         | 8         | 0         |        | 19.54  | 19.20  | 19.37   |            |          |
| 3                                                         | 8         | 4         |        | 19.54  | 19.30  | 19.50   |            |          |
| 3                                                         | 8         | 7         |        | 19.54  | 19.32  | 19.47   |            |          |
| 3                                                         | 15        | 0         |        | 19.49  | 19.22  | 19.38   |            |          |
| 3                                                         | 1         | 0         | 64-QAM | 19.71  | 19.55  | 19.47   | 28.25      | 0.6683   |
| 3                                                         | 1         | 8         |        | 19.61  | 19.35  | 19.53   |            |          |
| 3                                                         | 1         | 14        |        | 19.75  | 19.56  | 19.48   |            |          |
| 3                                                         | 8         | 0         |        | 18.48  | 18.27  | 18.39   |            |          |
| 3                                                         | 8         | 4         |        | 18.52  | 18.22  | 18.45   |            |          |
| 3                                                         | 8         | 7         |        | 18.49  | 18.24  | 18.46   |            |          |
| 3                                                         | 15        | 0         |        | 18.53  | 18.25  | 18.33   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                       | 1         | 0         | QPSK   | 21.24  | 20.99  | 21.20   | 29.86      | 0.9683   |
| 1.4                                                       | 1         | 3         |        | 21.27  | 21.04  | 21.22   |            |          |
| 1.4                                                       | 1         | 5         |        | 21.29  | 20.99  | 21.16   |            |          |
| 1.4                                                       | 3         | 0         |        | 21.26  | 20.96  | 21.12   |            |          |
| 1.4                                                       | 3         | 1         |        | 21.31  | 21.06  | 21.26   |            |          |
| 1.4                                                       | 3         | 3         |        | 21.36  | 21.08  | 21.21   |            |          |
| 1.4                                                       | 6         | 0         |        | 20.30  | 20.12  | 20.21   |            |          |
| 1.4                                                       | 1         | 0         | 16-QAM | 20.55  | 20.26  | 20.48   | 29.20      | 0.8318   |
| 1.4                                                       | 1         | 3         |        | 20.64  | 20.49  | 20.55   |            |          |
| 1.4                                                       | 1         | 5         |        | 20.70  | 20.33  | 20.57   |            |          |
| 1.4                                                       | 3         | 0         |        | 20.52  | 20.16  | 20.31   |            |          |
| 1.4                                                       | 3         | 1         |        | 20.53  | 20.21  | 20.33   |            |          |
| 1.4                                                       | 3         | 3         |        | 20.52  | 20.27  | 20.40   |            |          |
| 1.4                                                       | 6         | 0         |        | 19.41  | 19.18  | 19.29   |            |          |
| 1.4                                                       | 1         | 0         | 64-QAM | 19.54  | 19.20  | 19.52   | 28.19      | 0.6592   |
| 1.4                                                       | 1         | 3         |        | 19.69  | 19.43  | 19.36   |            |          |
| 1.4                                                       | 1         | 5         |        | 19.58  | 19.27  | 19.42   |            |          |
| 1.4                                                       | 3         | 0         |        | 19.53  | 19.14  | 19.29   |            |          |
| 1.4                                                       | 3         | 1         |        | 19.52  | 19.22  | 19.45   |            |          |
| 1.4                                                       | 3         | 3         |        | 19.51  | 19.26  | 19.39   |            |          |
| 1.4                                                       | 6         | 0         |        | 18.38  | 18.21  | 18.29   |            |          |
| Limit                                                     | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                        | 1        | 0         | QPSK   | 23.49  | 23.68  | 23.52   | 23.93     | 0.2472  |
| 10                                                        | 1        | 25        |        | 23.48  | 23.49  | 22.86   |           |         |
| 10                                                        | 1        | 49        |        | 23.25  | 23.53  | 22.68   |           |         |
| 10                                                        | 25       | 0         |        | 22.50  | 22.55  | 22.61   |           |         |
| 10                                                        | 25       | 12        |        | 22.60  | 22.61  | 22.07   |           |         |
| 10                                                        | 25       | 25        |        | 22.54  | 22.62  | 22.21   |           |         |
| 10                                                        | 50       | 0         |        | 22.51  | 22.67  | 22.28   |           |         |
| 10                                                        | 1        | 0         | 16-QAM | 22.81  | 22.90  | 22.90   | 23.27     | 0.2123  |
| 10                                                        | 1        | 25        |        | 22.83  | 23.02  | 22.21   |           |         |
| 10                                                        | 1        | 49        |        | 22.54  | 22.53  | 22.06   |           |         |
| 10                                                        | 25       | 0         |        | 21.55  | 21.61  | 21.63   |           |         |
| 10                                                        | 25       | 12        |        | 21.66  | 21.61  | 21.24   |           |         |
| 10                                                        | 25       | 25        |        | 21.52  | 21.58  | 21.21   |           |         |
| 10                                                        | 50       | 0         |        | 21.60  | 21.65  | 21.47   |           |         |
| 10                                                        | 1        | 0         | 64-QAM | 21.76  | 21.52  | 21.62   | 22.01     | 0.1589  |
| 10                                                        | 1        | 25        |        | 20.72  | 21.71  | 20.25   |           |         |
| 10                                                        | 1        | 49        |        | 20.21  | 21.38  | 19.94   |           |         |
| 10                                                        | 25       | 0         |        | 19.90  | 20.53  | 19.63   |           |         |
| 10                                                        | 25       | 12        |        | 19.62  | 20.65  | 19.31   |           |         |
| 10                                                        | 25       | 25        |        | 19.67  | 20.49  | 19.36   |           |         |
| 10                                                        | 50       | 0         |        | 19.80  | 20.40  | 19.48   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                         | 1        | 0         | QPSK   | 23.65  | 23.61  | 23.37   | 23.9      | 0.2455  |
| 5                                                         | 1        | 12        |        | 23.47  | 23.51  | 23.34   |           |         |
| 5                                                         | 1        | 24        |        | 23.24  | 23.51  | 22.86   |           |         |
| 5                                                         | 12       | 0         |        | 22.64  | 22.65  | 22.40   |           |         |
| 5                                                         | 12       | 7         |        | 22.57  | 22.67  | 22.55   |           |         |
| 5                                                         | 12       | 13        |        | 22.59  | 22.59  | 22.53   |           |         |
| 5                                                         | 25       | 0         |        | 22.58  | 22.56  | 22.40   |           |         |
| 5                                                         | 1        | 0         | 16-QAM | 22.94  | 22.93  | 22.40   | 23.26     | 0.2118  |
| 5                                                         | 1        | 12        |        | 22.63  | 23.01  | 22.51   |           |         |
| 5                                                         | 1        | 24        |        | 22.56  | 22.89  | 22.09   |           |         |
| 5                                                         | 12       | 0         |        | 21.70  | 21.66  | 21.36   |           |         |
| 5                                                         | 12       | 7         |        | 21.58  | 21.68  | 21.59   |           |         |
| 5                                                         | 12       | 13        |        | 21.56  | 21.65  | 21.40   |           |         |
| 5                                                         | 25       | 0         |        | 21.59  | 21.67  | 21.36   |           |         |
| 5                                                         | 1        | 0         | 64-QAM | 21.53  | 21.72  | 20.75   | 22.1      | 0.1622  |
| 5                                                         | 1        | 12        |        | 21.32  | 21.85  | 20.66   |           |         |
| 5                                                         | 1        | 24        |        | 20.59  | 21.79  | 20.16   |           |         |
| 5                                                         | 12       | 0         |        | 20.32  | 20.67  | 19.37   |           |         |
| 5                                                         | 12       | 7         |        | 20.08  | 20.67  | 19.60   |           |         |
| 5                                                         | 12       | 13        |        | 19.80  | 20.61  | 19.64   |           |         |
| 5                                                         | 25       | 0         |        | 20.06  | 20.63  | 19.44   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                         | 1        | 0         | QPSK   | 23.49  | 23.56  | 23.47   | 23.81     | 0.2404  |
| 3                                                         | 1        | 8         |        | 23.38  | 23.45  | 23.33   |           |         |
| 3                                                         | 1        | 14        |        | 23.36  | 23.49  | 22.97   |           |         |
| 3                                                         | 8        | 0         |        | 22.59  | 22.63  | 22.52   |           |         |
| 3                                                         | 8        | 4         |        | 22.54  | 22.57  | 22.59   |           |         |
| 3                                                         | 8        | 7         |        | 22.55  | 22.51  | 22.26   |           |         |
| 3                                                         | 15       | 0         |        | 22.59  | 22.57  | 22.36   |           |         |
| 3                                                         | 1        | 0         | 16-QAM | 22.89  | 22.97  | 22.68   | 23.22     | 0.2099  |
| 3                                                         | 1        | 8         |        | 22.93  | 22.83  | 22.54   |           |         |
| 3                                                         | 1        | 14        |        | 22.74  | 22.86  | 22.27   |           |         |
| 3                                                         | 8        | 0         |        | 21.60  | 21.69  | 21.58   |           |         |
| 3                                                         | 8        | 4         |        | 21.65  | 21.70  | 21.65   |           |         |
| 3                                                         | 8        | 7         |        | 21.66  | 21.59  | 21.55   |           |         |
| 3                                                         | 15       | 0         |        | 21.56  | 21.60  | 21.49   |           |         |
| 3                                                         | 1        | 0         | 64-QAM | 21.51  | 21.75  | 20.85   | 22.1      | 0.1622  |
| 3                                                         | 1        | 8         |        | 21.43  | 21.85  | 20.74   |           |         |
| 3                                                         | 1        | 14        |        | 21.22  | 21.70  | 20.44   |           |         |
| 3                                                         | 8        | 0         |        | 20.35  | 20.68  | 19.74   |           |         |
| 3                                                         | 8        | 4         |        | 20.34  | 20.66  | 19.71   |           |         |
| 3                                                         | 8        | 7         |        | 20.13  | 20.62  | 19.58   |           |         |
| 3                                                         | 15       | 0         |        | 20.18  | 20.61  | 19.64   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|-----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                  | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                       | 1        | 0         | QPSK   | 23.52  | 23.56  | 23.15   | 23.81     | 0.2404  |
| 1.4                                                       | 1        | 3         |        | 23.51  | 23.53  | 23.11   |           |         |
| 1.4                                                       | 1        | 5         |        | 23.40  | 23.44  | 22.85   |           |         |
| 1.4                                                       | 3        | 0         |        | 23.39  | 23.49  | 23.24   |           |         |
| 1.4                                                       | 3        | 1         |        | 23.43  | 23.50  | 23.09   |           |         |
| 1.4                                                       | 3        | 3         |        | 23.50  | 23.53  | 23.17   |           |         |
| 1.4                                                       | 6        | 0         |        | 22.52  | 22.50  | 22.26   |           |         |
| 1.4                                                       | 1        | 0         | 16-QAM | 22.68  | 22.72  | 22.62   | 23.16     | 0.2070  |
| 1.4                                                       | 1        | 3         |        | 22.91  | 22.81  | 22.59   |           |         |
| 1.4                                                       | 1        | 5         |        | 22.60  | 22.73  | 22.30   |           |         |
| 1.4                                                       | 3        | 0         |        | 22.61  | 22.58  | 22.42   |           |         |
| 1.4                                                       | 3        | 1         |        | 22.65  | 22.61  | 22.39   |           |         |
| 1.4                                                       | 3        | 3         |        | 22.67  | 22.78  | 22.32   |           |         |
| 1.4                                                       | 6        | 0         |        | 21.52  | 21.56  | 21.41   |           |         |
| 1.4                                                       | 1        | 0         | 64-QAM | 21.45  | 21.71  | 20.65   | 22.06     | 0.1607  |
| 1.4                                                       | 1        | 3         |        | 21.51  | 21.68  | 20.60   |           |         |
| 1.4                                                       | 1        | 5         |        | 21.43  | 21.81  | 20.40   |           |         |
| 1.4                                                       | 3        | 0         |        | 21.36  | 21.61  | 20.53   |           |         |
| 1.4                                                       | 3        | 1         |        | 21.42  | 21.57  | 20.52   |           |         |
| 1.4                                                       | 3        | 3         |        | 21.44  | 21.67  | 20.55   |           |         |
| 1.4                                                       | 6        | 0         |        | 20.42  | 20.66  | 19.45   |           |         |
| Limit                                                     | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1                 | 0         | QPSK   | 21.84  | 22.01  | 22.45   | 32.75      | 1.8836   |
| 20                                                         | 1                 | 49        |        | 21.76  | 22.02  | 22.35   |            |          |
| 20                                                         | 1                 | 99        |        | 21.70  | 22.00  | 22.34   |            |          |
| 20                                                         | 50                | 0         |        | 20.85  | 21.11  | 21.38   |            |          |
| 20                                                         | 50                | 24        |        | 20.91  | 21.16  | 21.36   |            |          |
| 20                                                         | 50                | 50        |        | 21.01  | 21.16  | 21.45   |            |          |
| 20                                                         | 100               | 0         |        | 20.97  | 21.19  | 21.40   |            |          |
| 20                                                         | 1                 | 0         | 16-QAM | 21.13  | 21.42  | 21.42   | 32.16      | 1.6444   |
| 20                                                         | 1                 | 49        |        | 21.24  | 21.51  | 21.86   |            |          |
| 20                                                         | 1                 | 99        |        | 21.21  | 21.46  | 21.78   |            |          |
| 20                                                         | 50                | 0         |        | 19.93  | 20.09  | 20.40   |            |          |
| 20                                                         | 50                | 24        |        | 20.14  | 20.20  | 20.50   |            |          |
| 20                                                         | 50                | 50        |        | 19.97  | 20.10  | 20.48   |            |          |
| 20                                                         | 100               | 0         |        | 20.02  | 20.13  | 20.37   |            |          |
| 20                                                         | 1                 | 0         | 64-QAM | 20.26  | 20.24  | 20.70   | 31.00      | 1.2589   |
| 20                                                         | 1                 | 49        |        | 20.17  | 20.11  | 20.55   |            |          |
| 20                                                         | 1                 | 99        |        | 20.14  | 20.64  | 20.63   |            |          |
| 20                                                         | 50                | 0         |        | 18.91  | 19.10  | 19.55   |            |          |
| 20                                                         | 50                | 24        |        | 19.01  | 19.13  | 19.43   |            |          |
| 20                                                         | 50                | 50        |        | 18.98  | 19.11  | 19.51   |            |          |
| 20                                                         | 100               | 0         |        | 19.04  | 19.19  | 19.46   |            |          |
| Limit                                                      | Output power < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1                 | 0         | QPSK   | 21.99  | 22.05  | 22.32   | 32.72      | 1.8707   |
| 15                                                         | 1                 | 37        |        | 22.01  | 22.13  | 22.42   |            |          |
| 15                                                         | 1                 | 74        |        | 21.88  | 22.08  | 22.31   |            |          |
| 15                                                         | 36                | 0         |        | 20.96  | 21.12  | 21.42   |            |          |
| 15                                                         | 36                | 20        |        | 21.05  | 21.20  | 21.44   |            |          |
| 15                                                         | 36                | 39        |        | 21.00  | 21.05  | 21.43   |            |          |
| 15                                                         | 75                | 0         |        | 21.04  | 21.17  | 21.40   |            |          |
| 15                                                         | 1                 | 0         | 16-QAM | 21.28  | 21.45  | 21.56   | 31.98      | 1.5776   |
| 15                                                         | 1                 | 37        |        | 21.22  | 21.32  | 21.63   |            |          |
| 15                                                         | 1                 | 74        |        | 21.10  | 21.43  | 21.68   |            |          |
| 15                                                         | 36                | 0         |        | 20.00  | 20.03  | 20.38   |            |          |
| 15                                                         | 36                | 20        |        | 20.04  | 20.13  | 20.56   |            |          |
| 15                                                         | 36                | 39        |        | 20.01  | 20.22  | 20.51   |            |          |
| 15                                                         | 75                | 0         |        | 20.07  | 20.11  | 20.46   |            |          |
| 15                                                         | 1                 | 0         | 64-QAM | 20.24  | 20.23  | 20.44   | 31.01      | 1.2618   |
| 15                                                         | 1                 | 37        |        | 20.16  | 20.31  | 20.69   |            |          |
| 15                                                         | 1                 | 74        |        | 20.15  | 20.42  | 20.71   |            |          |
| 15                                                         | 36                | 0         |        | 18.92  | 19.07  | 19.42   |            |          |
| 15                                                         | 36                | 20        |        | 19.01  | 19.17  | 19.48   |            |          |
| 15                                                         | 36                | 39        |        | 18.98  | 19.18  | 19.50   |            |          |
| 15                                                         | 75                | 0         |        | 19.01  | 19.21  | 19.40   |            |          |
| Limit                                                      | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1                 | 0         | QPSK   | 21.88  | 22.04  | 22.40   | 32.70      | 1.8621   |
| 10                                                         | 1                 | 25        |        | 21.83  | 22.04  | 22.32   |            |          |
| 10                                                         | 1                 | 49        |        | 21.86  | 22.11  | 22.40   |            |          |
| 10                                                         | 25                | 0         |        | 21.14  | 21.14  | 21.51   |            |          |
| 10                                                         | 25                | 12        |        | 21.08  | 21.21  | 21.44   |            |          |
| 10                                                         | 25                | 25        |        | 20.95  | 21.23  | 21.63   |            |          |
| 10                                                         | 50                | 0         |        | 20.99  | 21.16  | 21.54   |            |          |
| 10                                                         | 1                 | 0         | 16-QAM | 21.17  | 21.43  | 22.00   | 32.30      | 1.6982   |
| 10                                                         | 1                 | 25        |        | 20.87  | 21.40  | 21.67   |            |          |
| 10                                                         | 1                 | 49        |        | 21.11  | 21.40  | 21.44   |            |          |
| 10                                                         | 25                | 0         |        | 20.05  | 20.08  | 20.53   |            |          |
| 10                                                         | 25                | 12        |        | 20.11  | 20.24  | 20.53   |            |          |
| 10                                                         | 25                | 25        |        | 20.14  | 20.25  | 20.63   |            |          |
| 10                                                         | 50                | 0         |        | 20.06  | 20.20  | 20.60   |            |          |
| 10                                                         | 1                 | 0         | 64-QAM | 20.13  | 20.33  | 20.75   | 31.05      | 1.2735   |
| 10                                                         | 1                 | 25        |        | 20.27  | 20.28  | 20.69   |            |          |
| 10                                                         | 1                 | 49        |        | 20.00  | 20.36  | 20.59   |            |          |
| 10                                                         | 25                | 0         |        | 19.12  | 19.09  | 19.58   |            |          |
| 10                                                         | 25                | 12        |        | 19.19  | 19.31  | 19.59   |            |          |
| 10                                                         | 25                | 25        |        | 19.13  | 19.20  | 19.51   |            |          |
| 10                                                         | 50                | 0         |        | 19.07  | 19.21  | 19.50   |            |          |
| Limit                                                      | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1                 | 0         | QPSK   | 21.93  | 21.93  | 22.42   | 32.72      | 1.8707   |
| 5                                                          | 1                 | 12        |        | 21.90  | 22.05  | 22.33   |            |          |
| 5                                                          | 1                 | 24        |        | 21.97  | 22.07  | 22.41   |            |          |
| 5                                                          | 12                | 0         |        | 21.10  | 21.10  | 21.52   |            |          |
| 5                                                          | 12                | 7         |        | 21.04  | 21.16  | 21.49   |            |          |
| 5                                                          | 12                | 13        |        | 21.06  | 21.18  | 21.56   |            |          |
| 5                                                          | 25                | 0         |        | 21.03  | 21.18  | 21.52   |            |          |
| 5                                                          | 1                 | 0         | 16-QAM | 21.21  | 21.34  | 21.91   | 32.21      | 1.6634   |
| 5                                                          | 1                 | 12        |        | 21.25  | 21.46  | 21.75   |            |          |
| 5                                                          | 1                 | 24        |        | 21.30  | 21.41  | 21.68   |            |          |
| 5                                                          | 12                | 0         |        | 20.11  | 20.19  | 20.56   |            |          |
| 5                                                          | 12                | 7         |        | 20.08  | 20.18  | 20.58   |            |          |
| 5                                                          | 12                | 13        |        | 20.14  | 20.24  | 20.50   |            |          |
| 5                                                          | 25                | 0         |        | 20.05  | 20.25  | 20.53   |            |          |
| 5                                                          | 1                 | 0         | 64-QAM | 20.16  | 20.34  | 20.62   | 30.95      | 1.2445   |
| 5                                                          | 1                 | 12        |        | 20.26  | 20.48  | 20.65   |            |          |
| 5                                                          | 1                 | 24        |        | 20.23  | 20.52  | 20.39   |            |          |
| 5                                                          | 12                | 0         |        | 19.16  | 19.14  | 19.50   |            |          |
| 5                                                          | 12                | 7         |        | 19.16  | 19.15  | 19.49   |            |          |
| 5                                                          | 12                | 13        |        | 19.15  | 19.30  | 19.34   |            |          |
| 5                                                          | 25                | 0         |        | 19.09  | 19.18  | 19.51   |            |          |
| Limit                                                      | Output power < 2W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1         | 0         | QPSK   | 23.64  | 23.64  | 23.76   | 24.91     | 0.3097  |
| 10                                                         | 1         | 25        |        | 23.52  | 23.56  | 23.65   |           |         |
| 10                                                         | 1         | 49        |        | 23.63  | 23.51  | 23.56   |           |         |
| 10                                                         | 25        | 0         |        | 22.59  | 22.75  | 22.73   |           |         |
| 10                                                         | 25        | 12        |        | 22.69  | 22.66  | 22.72   |           |         |
| 10                                                         | 25        | 25        |        | 22.70  | 22.68  | 22.69   |           |         |
| 10                                                         | 50        | 0         |        | 22.66  | 22.66  | 22.70   |           |         |
| 10                                                         | 1         | 0         | 16-QAM | 22.70  | 23.06  | 22.92   | 24.21     | 0.2636  |
| 10                                                         | 1         | 25        |        | 22.94  | 23.03  | 22.96   |           |         |
| 10                                                         | 1         | 49        |        | 22.93  | 22.96  | 22.94   |           |         |
| 10                                                         | 25        | 0         |        | 21.66  | 21.71  | 21.81   |           |         |
| 10                                                         | 25        | 12        |        | 21.76  | 21.74  | 21.73   |           |         |
| 10                                                         | 25        | 25        |        | 21.65  | 21.82  | 21.73   |           |         |
| 10                                                         | 50        | 0         |        | 21.73  | 21.64  | 21.67   |           |         |
| 10                                                         | 1         | 0         | 64-QAM | 21.82  | 21.82  | 21.88   | 23.14     | 0.2061  |
| 10                                                         | 1         | 25        |        | 21.71  | 21.99  | 21.89   |           |         |
| 10                                                         | 1         | 49        |        | 21.94  | 21.91  | 21.83   |           |         |
| 10                                                         | 25        | 0         |        | 20.82  | 20.76  | 20.75   |           |         |
| 10                                                         | 25        | 12        |        | 20.75  | 20.76  | 20.67   |           |         |
| 10                                                         | 25        | 25        |        | 20.71  | 20.83  | 20.78   |           |         |
| 10                                                         | 50        | 0         |        | 20.76  | 20.73  | 20.77   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.66  | 23.65  | 23.67   | 24.82     | 0.3034  |
| 5                                                          | 1         | 12        |        | 23.56  | 23.60  | 23.65   |           |         |
| 5                                                          | 1         | 24        |        | 23.53  | 23.61  | 23.63   |           |         |
| 5                                                          | 12        | 0         |        | 22.66  | 22.74  | 22.78   |           |         |
| 5                                                          | 12        | 7         |        | 22.69  | 22.70  | 22.83   |           |         |
| 5                                                          | 12        | 13        |        | 22.61  | 22.75  | 22.73   |           |         |
| 5                                                          | 25        | 0         |        | 22.65  | 22.68  | 22.70   |           |         |
| 5                                                          | 1         | 0         | 16-QAM | 23.00  | 23.10  | 22.93   | 24.25     | 0.2661  |
| 5                                                          | 1         | 12        |        | 22.82  | 23.00  | 23.05   |           |         |
| 5                                                          | 1         | 24        |        | 23.00  | 23.00  | 22.96   |           |         |
| 5                                                          | 12        | 0         |        | 21.76  | 21.75  | 21.81   |           |         |
| 5                                                          | 12        | 7         |        | 21.67  | 21.77  | 21.87   |           |         |
| 5                                                          | 12        | 13        |        | 21.63  | 21.69  | 21.82   |           |         |
| 5                                                          | 25        | 0         |        | 21.70  | 21.73  | 21.72   |           |         |
| 5                                                          | 1         | 0         | 64-QAM | 21.85  | 22.02  | 21.87   | 23.17     | 0.2075  |
| 5                                                          | 1         | 12        |        | 21.80  | 21.95  | 21.85   |           |         |
| 5                                                          | 1         | 24        |        | 21.97  | 21.92  | 21.93   |           |         |
| 5                                                          | 12        | 0         |        | 20.68  | 20.74  | 20.78   |           |         |
| 5                                                          | 12        | 7         |        | 20.69  | 20.76  | 20.87   |           |         |
| 5                                                          | 12        | 13        |        | 20.70  | 20.75  | 20.77   |           |         |
| 5                                                          | 25        | 0         |        | 20.72  | 20.77  | 20.77   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                          | 1         | 0         | QPSK   | 23.65  | 23.68  | 23.66   | 24.83     | 0.3041  |
| 3                                                          | 1         | 8         |        | 23.56  | 23.59  | 23.65   |           |         |
| 3                                                          | 1         | 14        |        | 23.52  | 23.62  | 23.54   |           |         |
| 3                                                          | 8         | 0         |        | 22.66  | 22.70  | 22.73   |           |         |
| 3                                                          | 8         | 4         |        | 22.64  | 22.69  | 22.82   |           |         |
| 3                                                          | 8         | 7         |        | 22.55  | 22.69  | 22.70   |           |         |
| 3                                                          | 15        | 0         |        | 22.64  | 22.64  | 22.66   |           |         |
| 3                                                          | 1         | 0         | 16-QAM | 22.94  | 23.06  | 23.09   | 24.24     | 0.2655  |
| 3                                                          | 1         | 8         |        | 22.77  | 22.97  | 22.95   |           |         |
| 3                                                          | 1         | 14        |        | 22.85  | 23.05  | 22.96   |           |         |
| 3                                                          | 8         | 0         |        | 21.79  | 21.83  | 21.81   |           |         |
| 3                                                          | 8         | 4         |        | 21.72  | 21.81  | 21.90   |           |         |
| 3                                                          | 8         | 7         |        | 21.64  | 21.78  | 21.81   |           |         |
| 3                                                          | 15        | 0         |        | 21.69  | 21.72  | 21.82   |           |         |
| 3                                                          | 1         | 0         | 64-QAM | 22.03  | 21.83  | 21.95   | 23.18     | 0.2080  |
| 3                                                          | 1         | 8         |        | 21.75  | 21.91  | 21.81   |           |         |
| 3                                                          | 1         | 14        |        | 21.83  | 22.00  | 21.71   |           |         |
| 3                                                          | 8         | 0         |        | 20.69  | 20.73  | 20.74   |           |         |
| 3                                                          | 8         | 4         |        | 20.67  | 20.78  | 20.87   |           |         |
| 3                                                          | 8         | 7         |        | 20.66  | 20.69  | 20.78   |           |         |
| 3                                                          | 15        | 0         |        | 20.68  | 20.76  | 20.69   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 12 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 23.58  | 23.75  | 23.57   | 24.9      | 0.3090  |
| 1.4                                                        | 1         | 3         |        | 23.53  | 23.71  | 23.56   |           |         |
| 1.4                                                        | 1         | 5         |        | 23.47  | 23.63  | 23.51   |           |         |
| 1.4                                                        | 3         | 0         |        | 23.43  | 23.58  | 23.59   |           |         |
| 1.4                                                        | 3         | 1         |        | 23.55  | 23.55  | 23.59   |           |         |
| 1.4                                                        | 3         | 3         |        | 23.47  | 23.64  | 23.53   |           |         |
| 1.4                                                        | 6         | 0         |        | 22.55  | 22.59  | 22.68   |           |         |
| 1.4                                                        | 1         | 0         | 16-QAM | 22.72  | 22.89  | 22.92   | 24.14     | 0.2594  |
| 1.4                                                        | 1         | 3         |        | 22.82  | 22.99  | 22.89   |           |         |
| 1.4                                                        | 1         | 5         |        | 22.67  | 22.96  | 22.82   |           |         |
| 1.4                                                        | 3         | 0         |        | 22.63  | 22.72  | 22.68   |           |         |
| 1.4                                                        | 3         | 1         |        | 22.74  | 22.79  | 22.76   |           |         |
| 1.4                                                        | 3         | 3         |        | 22.68  | 22.80  | 22.77   |           |         |
| 1.4                                                        | 6         | 0         |        | 21.64  | 21.67  | 21.72   |           |         |
| 1.4                                                        | 1         | 0         | 64-QAM | 21.75  | 21.91  | 22.02   | 23.17     | 0.2075  |
| 1.4                                                        | 1         | 3         |        | 21.77  | 21.95  | 21.86   |           |         |
| 1.4                                                        | 1         | 5         |        | 21.68  | 21.78  | 21.87   |           |         |
| 1.4                                                        | 3         | 0         |        | 21.70  | 21.74  | 21.78   |           |         |
| 1.4                                                        | 3         | 1         |        | 21.75  | 21.75  | 21.79   |           |         |
| 1.4                                                        | 3         | 3         |        | 21.67  | 21.79  | 21.70   |           |         |
| 1.4                                                        | 6         | 0         |        | 20.55  | 20.68  | 20.77   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.4 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1         | 0         | QPSK   | -      | 23.21  | -       | 21.46     | 0.1400  |
| 10                                                         | 1         | 25        |        |        | 22.81  |         |           |         |
| 10                                                         | 1         | 49        |        |        | 22.92  |         |           |         |
| 10                                                         | 25        | 0         |        |        | 22.23  |         |           |         |
| 10                                                         | 25        | 12        |        |        | 22.16  |         |           |         |
| 10                                                         | 25        | 25        |        |        | 22.26  |         |           |         |
| 10                                                         | 50        | 0         |        |        | 22.06  |         |           |         |
| 10                                                         | 1         | 0         | 16-QAM |        | 22.56  |         | 20.81     | 0.1205  |
| 10                                                         | 1         | 25        |        |        | 22.35  |         |           |         |
| 10                                                         | 1         | 49        |        |        | 22.47  |         |           |         |
| 10                                                         | 25        | 0         |        |        | 21.26  |         |           |         |
| 10                                                         | 25        | 12        |        |        | 21.19  |         |           |         |
| 10                                                         | 25        | 25        |        |        | 21.19  |         |           |         |
| 10                                                         | 50        | 0         |        |        | 21.17  |         |           |         |
| 10                                                         | 1         | 0         | 64-QAM | 21.29  | 19.65  | 0.0923  |           |         |
| 10                                                         | 1         | 25        |        | 21.40  |        |         |           |         |
| 10                                                         | 1         | 49        |        | 21.33  |        |         |           |         |
| 10                                                         | 25        | 0         |        | 20.14  |        |         |           |         |
| 10                                                         | 25        | 12        |        | 20.14  |        |         |           |         |
| 10                                                         | 25        | 25        |        | 20.17  |        |         |           |         |
| 10                                                         | 50        | 0         |        | 20.15  |        |         |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.4 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.19  | 23.11  | 22.99   | 21.44     | 0.1393  |
| 5                                                          | 1         | 12        |        | 23.12  | 23.01  | 22.93   |           |         |
| 5                                                          | 1         | 24        |        | 23.01  | 22.95  | 22.92   |           |         |
| 5                                                          | 12        | 0         |        | 22.26  | 22.13  | 22.17   |           |         |
| 5                                                          | 12        | 7         |        | 22.21  | 22.14  | 22.16   |           |         |
| 5                                                          | 12        | 13        |        | 22.15  | 22.17  | 22.08   |           |         |
| 5                                                          | 25        | 0         |        | 22.15  | 22.10  | 21.85   |           |         |
| 5                                                          | 1         | 0         | 16-QAM | 22.51  | 22.29  | 22.50   | 20.76     | 0.1191  |
| 5                                                          | 1         | 12        |        | 22.38  | 22.36  | 22.17   |           |         |
| 5                                                          | 1         | 24        |        | 22.36  | 22.40  | 22.39   |           |         |
| 5                                                          | 12        | 0         |        | 21.19  | 21.15  | 21.19   |           |         |
| 5                                                          | 12        | 7         |        | 21.24  | 21.12  | 21.22   |           |         |
| 5                                                          | 12        | 13        |        | 21.20  | 21.21  | 21.16   |           |         |
| 5                                                          | 25        | 0         |        | 21.28  | 21.10  | 21.24   |           |         |
| 5                                                          | 1         | 0         | 64-QAM | 21.42  | 21.26  | 21.33   | 19.76     | 0.0946  |
| 5                                                          | 1         | 12        |        | 21.30  | 21.51  | 21.23   |           |         |
| 5                                                          | 1         | 24        |        | 21.20  | 21.30  | 21.40   |           |         |
| 5                                                          | 12        | 0         |        | 20.22  | 20.19  | 20.25   |           |         |
| 5                                                          | 12        | 7         |        | 20.18  | 20.13  | 20.25   |           |         |
| 5                                                          | 12        | 13        |        | 20.18  | 20.23  | 20.19   |           |         |
| 5                                                          | 25        | 0         |        | 20.26  | 20.18  | 20.22   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 17 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1         | 0         | QPSK   | 23.93  | 23.81  | 23.70   | 25.08     | 0.3221  |
| 10                                                         | 1         | 25        |        | 23.84  | 23.80  | 23.61   |           |         |
| 10                                                         | 1         | 49        |        | 23.78  | 23.76  | 23.65   |           |         |
| 10                                                         | 25        | 0         |        | 22.83  | 22.77  | 22.87   |           |         |
| 10                                                         | 25        | 12        |        | 22.89  | 22.86  | 22.78   |           |         |
| 10                                                         | 25        | 25        |        | 22.88  | 22.88  | 22.77   |           |         |
| 10                                                         | 50        | 0         |        | 22.95  | 22.83  | 22.79   |           |         |
| 10                                                         | 1         | 0         | 16-QAM | 23.24  | 23.00  | 22.98   | 24.39     | 0.2748  |
| 10                                                         | 1         | 25        |        | 23.04  | 23.06  | 23.03   |           |         |
| 10                                                         | 1         | 49        |        | 23.06  | 23.23  | 23.09   |           |         |
| 10                                                         | 25        | 0         |        | 21.83  | 21.84  | 21.83   |           |         |
| 10                                                         | 25        | 12        |        | 21.94  | 21.92  | 21.82   |           |         |
| 10                                                         | 25        | 25        |        | 21.87  | 21.87  | 21.84   |           |         |
| 10                                                         | 50        | 0         |        | 21.89  | 21.88  | 21.86   |           |         |
| 10                                                         | 1         | 0         | 64-QAM | 22.09  | 22.04  | 22.11   | 23.26     | 0.2118  |
| 10                                                         | 1         | 25        |        | 21.89  | 22.01  | 21.91   |           |         |
| 10                                                         | 1         | 49        |        | 21.94  | 22.03  | 21.94   |           |         |
| 10                                                         | 25        | 0         |        | 20.93  | 20.92  | 20.82   |           |         |
| 10                                                         | 25        | 12        |        | 20.98  | 20.82  | 20.92   |           |         |
| 10                                                         | 25        | 25        |        | 20.93  | 20.85  | 20.90   |           |         |
| 10                                                         | 50        | 0         |        | 20.95  | 20.90  | 20.87   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 17 Maximum Average Power [dBm] (GT - LC = 3.3 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.77  | 23.91  | 23.86   | 25.06     | 0.3206  |
| 5                                                          | 1         | 12        |        | 23.76  | 23.81  | 23.80   |           |         |
| 5                                                          | 1         | 24        |        | 23.81  | 23.89  | 23.83   |           |         |
| 5                                                          | 12        | 0         |        | 22.95  | 22.87  | 22.86   |           |         |
| 5                                                          | 12        | 7         |        | 22.95  | 22.96  | 22.91   |           |         |
| 5                                                          | 12        | 13        |        | 22.94  | 22.97  | 22.93   |           |         |
| 5                                                          | 25        | 0         |        | 22.88  | 22.90  | 22.93   |           |         |
| 5                                                          | 1         | 0         | 16-QAM | 23.09  | 23.22  | 23.21   | 24.38     | 0.2742  |
| 5                                                          | 1         | 12        |        | 23.17  | 23.15  | 23.15   |           |         |
| 5                                                          | 1         | 24        |        | 23.23  | 23.22  | 23.21   |           |         |
| 5                                                          | 12        | 0         |        | 21.88  | 22.02  | 21.93   |           |         |
| 5                                                          | 12        | 7         |        | 21.94  | 22.07  | 21.98   |           |         |
| 5                                                          | 12        | 13        |        | 21.95  | 21.95  | 21.94   |           |         |
| 5                                                          | 25        | 0         |        | 21.99  | 21.89  | 21.93   |           |         |
| 5                                                          | 1         | 0         | 64-QAM | 22.03  | 21.95  | 22.05   | 23.4      | 0.2188  |
| 5                                                          | 1         | 12        |        | 21.98  | 22.13  | 22.25   |           |         |
| 5                                                          | 1         | 24        |        | 21.99  | 22.20  | 22.13   |           |         |
| 5                                                          | 12        | 0         |        | 20.82  | 20.96  | 20.89   |           |         |
| 5                                                          | 12        | 7         |        | 20.98  | 21.05  | 20.97   |           |         |
| 5                                                          | 12        | 13        |        | 20.96  | 20.93  | 20.95   |           |         |
| 5                                                          | 25        | 0         |        | 20.90  | 20.90  | 21.00   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                         | 1        | 0         | QPSK   | 23.69  | 23.63  | 23.59   | 23.94     | 0.2477  |
| 15                                                         | 1        | 37        |        | 23.45  | 23.40  | 23.41   |           |         |
| 15                                                         | 1        | 74        |        | 23.35  | 23.62  | 23.55   |           |         |
| 15                                                         | 36       | 0         |        | 22.62  | 22.59  | 22.59   |           |         |
| 15                                                         | 36       | 20        |        | 22.63  | 22.65  | 22.63   |           |         |
| 15                                                         | 36       | 39        |        | 22.64  | 22.69  | 22.67   |           |         |
| 15                                                         | 75       | 0         |        | 22.59  | 22.63  | 22.58   |           |         |
| 15                                                         | 1        | 0         | 16-QAM | 22.90  | 22.60  | 22.94   | 23.43     | 0.2203  |
| 15                                                         | 1        | 37        |        | 22.86  | 22.99  | 22.82   |           |         |
| 15                                                         | 1        | 74        |        | 23.18  | 23.10  | 23.03   |           |         |
| 15                                                         | 36       | 0         |        | 21.61  | 21.68  | 21.56   |           |         |
| 15                                                         | 36       | 20        |        | 21.57  | 21.68  | 21.47   |           |         |
| 15                                                         | 36       | 39        |        | 21.61  | 21.56  | 21.60   |           |         |
| 15                                                         | 75       | 0         |        | 21.69  | 21.56  | 21.68   |           |         |
| 15                                                         | 1        | 0         | 64-QAM | 21.34  | 21.95  | 21.95   | 22.37     | 0.1726  |
| 15                                                         | 1        | 37        |        | 21.84  | 22.12  | 21.39   |           |         |
| 15                                                         | 1        | 74        |        | 21.99  | 21.67  | 21.66   |           |         |
| 15                                                         | 36       | 0         |        | 20.51  | 20.66  | 20.69   |           |         |
| 15                                                         | 36       | 20        |        | 20.72  | 20.68  | 20.60   |           |         |
| 15                                                         | 36       | 39        |        | 20.63  | 20.61  | 20.60   |           |         |
| 15                                                         | 75       | 0         |        | 20.64  | 20.60  | 20.69   |           |         |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1        | 0         | QPSK   | 23.57  | 23.62  | 23.51   | 23.87     | 0.2438  |
| 10                                                         | 1        | 25        |        | 23.26  | 23.21  | 23.24   |           |         |
| 10                                                         | 1        | 49        |        | 23.19  | 23.61  | 23.46   |           |         |
| 10                                                         | 25       | 0         |        | 22.50  | 22.56  | 22.56   |           |         |
| 10                                                         | 25       | 12        |        | 22.51  | 22.56  | 22.63   |           |         |
| 10                                                         | 25       | 25        |        | 22.59  | 22.65  | 22.52   |           |         |
| 10                                                         | 50       | 0         |        | 22.48  | 22.49  | 22.50   |           |         |
| 10                                                         | 1        | 0         | 16-QAM | 22.71  | 22.56  | 22.83   | 23.42     | 0.2198  |
| 10                                                         | 1        | 25        |        | 22.80  | 22.99  | 22.82   |           |         |
| 10                                                         | 1        | 49        |        | 23.17  | 23.10  | 22.92   |           |         |
| 10                                                         | 25       | 0         |        | 21.60  | 21.63  | 21.38   |           |         |
| 10                                                         | 25       | 12        |        | 21.45  | 21.60  | 21.46   |           |         |
| 10                                                         | 25       | 25        |        | 21.58  | 21.37  | 21.44   |           |         |
| 10                                                         | 50       | 0         |        | 21.65  | 21.36  | 21.62   |           |         |
| 10                                                         | 1        | 0         | 64-QAM | 21.33  | 21.89  | 21.92   | 22.33     | 0.1710  |
| 10                                                         | 1        | 25        |        | 21.72  | 22.08  | 21.25   |           |         |
| 10                                                         | 1        | 49        |        | 21.85  | 21.53  | 21.52   |           |         |
| 10                                                         | 25       | 0         |        | 20.51  | 20.46  | 20.49   |           |         |
| 10                                                         | 25       | 12        |        | 20.72  | 20.63  | 20.41   |           |         |
| 10                                                         | 25       | 25        |        | 20.48  | 20.43  | 20.41   |           |         |
| 10                                                         | 50       | 0         |        | 20.58  | 20.56  | 20.49   |           |         |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1        | 0         | QPSK   | 23.54  | 23.53  | 23.51   | 23.79     | 0.2393  |
| 5                                                          | 1        | 12        |        | 23.37  | 23.40  | 23.37   |           |         |
| 5                                                          | 1        | 24        |        | 23.23  | 23.52  | 23.47   |           |         |
| 5                                                          | 12       | 0         |        | 22.43  | 22.55  | 22.55   |           |         |
| 5                                                          | 12       | 7         |        | 22.51  | 22.49  | 22.56   |           |         |
| 5                                                          | 12       | 13        |        | 22.56  | 22.68  | 22.62   |           |         |
| 5                                                          | 25       | 0         |        | 22.45  | 22.44  | 22.52   |           |         |
| 5                                                          | 1        | 0         | 16-QAM | 22.82  | 22.42  | 22.75   | 23.33     | 0.2153  |
| 5                                                          | 1        | 12        |        | 22.74  | 22.85  | 22.71   |           |         |
| 5                                                          | 1        | 24        |        | 23.08  | 23.00  | 22.96   |           |         |
| 5                                                          | 12       | 0         |        | 21.58  | 21.48  | 21.38   |           |         |
| 5                                                          | 12       | 7         |        | 21.48  | 21.49  | 21.44   |           |         |
| 5                                                          | 12       | 13        |        | 21.53  | 21.38  | 21.50   |           |         |
| 5                                                          | 25       | 0         |        | 21.58  | 21.48  | 21.56   |           |         |
| 5                                                          | 1        | 0         | 64-QAM | 21.29  | 21.88  | 21.89   | 22.34     | 0.1714  |
| 5                                                          | 1        | 12        |        | 21.81  | 22.09  | 21.34   |           |         |
| 5                                                          | 1        | 24        |        | 21.85  | 21.51  | 21.65   |           |         |
| 5                                                          | 12       | 0         |        | 20.35  | 20.64  | 20.51   |           |         |
| 5                                                          | 12       | 7         |        | 20.60  | 20.62  | 20.55   |           |         |
| 5                                                          | 12       | 13        |        | 20.54  | 20.56  | 20.47   |           |         |
| 5                                                          | 25       | 0         |        | 20.46  | 20.40  | 20.66   |           |         |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                          | 1        | 0         | QPSK   | 23.68  | 23.61  | 23.53   | 23.93     | 0.2472  |
| 3                                                          | 1        | 8         |        | 23.45  | 23.27  | 23.26   |           |         |
| 3                                                          | 1        | 14        |        | 23.19  | 23.59  | 23.45   |           |         |
| 3                                                          | 8        | 0         |        | 22.52  | 22.50  | 22.52   |           |         |
| 3                                                          | 8        | 4         |        | 22.51  | 22.65  | 22.51   |           |         |
| 3                                                          | 8        | 7         |        | 22.52  | 22.54  | 22.59   |           |         |
| 3                                                          | 15       | 0         |        | 22.55  | 22.57  | 22.40   |           |         |
| 3                                                          | 1        | 0         | 16-QAM | 22.80  | 22.54  | 22.92   | 23.26     | 0.2118  |
| 3                                                          | 1        | 8         |        | 22.84  | 22.90  | 22.63   |           |         |
| 3                                                          | 1        | 14        |        | 23.01  | 22.92  | 22.98   |           |         |
| 3                                                          | 8        | 0         |        | 21.58  | 21.57  | 21.48   |           |         |
| 3                                                          | 8        | 4         |        | 21.40  | 21.59  | 21.41   |           |         |
| 3                                                          | 8        | 7         |        | 21.55  | 21.49  | 21.40   |           |         |
| 3                                                          | 15       | 0         |        | 21.55  | 21.47  | 21.55   |           |         |
| 3                                                          | 1        | 0         | 64-QAM | 22.80  | 22.54  | 22.92   | 23.26     | 0.2118  |
| 3                                                          | 1        | 8         |        | 22.84  | 22.90  | 22.63   |           |         |
| 3                                                          | 1        | 14        |        | 23.01  | 22.92  | 22.98   |           |         |
| 3                                                          | 8        | 0         |        | 21.58  | 21.57  | 21.48   |           |         |
| 3                                                          | 8        | 4         |        | 21.40  | 21.59  | 21.41   |           |         |
| 3                                                          | 8        | 7         |        | 21.55  | 21.49  | 21.40   |           |         |
| 3                                                          | 15       | 0         |        | 21.55  | 21.47  | 21.55   |           |         |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                        | 1        | 0         | QPSK   | 23.68  | 23.51  | 23.59   | 23.93     | 0.2472  |
| 1.4                                                        | 1        | 3         |        | 23.25  | 23.23  | 23.40   |           |         |
| 1.4                                                        | 1        | 5         |        | 23.24  | 23.49  | 23.55   |           |         |
| 1.4                                                        | 3        | 0         |        | 22.47  | 22.59  | 22.55   |           |         |
| 1.4                                                        | 3        | 1         |        | 22.52  | 22.55  | 22.56   |           |         |
| 1.4                                                        | 3        | 3         |        | 22.51  | 22.60  | 22.54   |           |         |
| 1.4                                                        | 6        | 0         |        | 22.54  | 22.55  | 22.58   |           |         |
| 1.4                                                        | 1        | 0         | 16-QAM | 22.74  | 22.44  | 22.90   | 23.36     | 0.2168  |
| 1.4                                                        | 1        | 3         |        | 22.79  | 22.95  | 22.68   |           |         |
| 1.4                                                        | 1        | 5         |        | 23.11  | 22.94  | 23.01   |           |         |
| 1.4                                                        | 3        | 0         |        | 21.47  | 21.56  | 21.42   |           |         |
| 1.4                                                        | 3        | 1         |        | 21.44  | 21.53  | 21.46   |           |         |
| 1.4                                                        | 3        | 3         |        | 21.54  | 21.40  | 21.51   |           |         |
| 1.4                                                        | 6        | 0         |        | 21.68  | 21.45  | 21.49   |           |         |
| 1.4                                                        | 1        | 0         | 64-QAM | 22.74  | 22.44  | 22.90   | 23.36     | 0.2168  |
| 1.4                                                        | 1        | 3         |        | 22.79  | 22.95  | 22.68   |           |         |
| 1.4                                                        | 1        | 5         |        | 23.11  | 22.94  | 23.01   |           |         |
| 1.4                                                        | 3        | 0         |        | 21.47  | 21.56  | 21.42   |           |         |
| 1.4                                                        | 3        | 1         |        | 21.44  | 21.53  | 21.46   |           |         |
| 1.4                                                        | 3        | 3         |        | 21.54  | 21.40  | 21.51   |           |         |
| 1.4                                                        | 6        | 0         |        | 21.68  | 21.45  | 21.49   |           |         |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 6 dB) |                   |           |        |        |        |         |            |          |
|----------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                 | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                       | 1                 | 0         | QPSK   | 23.79  | 23.81  | 23.91   | 29.91      | 0.9795   |
| 20                                                       | 1                 | 49        |        | 23.62  | 23.73  | 23.78   |            |          |
| 20                                                       | 1                 | 99        |        | 23.78  | 23.79  | 23.71   |            |          |
| 20                                                       | 50                | 0         |        | 22.89  | 22.87  | 22.80   |            |          |
| 20                                                       | 50                | 24        |        | 22.89  | 22.86  | 22.92   |            |          |
| 20                                                       | 50                | 50        |        | 22.79  | 22.94  | 22.93   |            |          |
| 20                                                       | 100               | 0         |        | 22.84  | 22.93  | 22.91   |            |          |
| 20                                                       | 1                 | 0         | 16-QAM | 22.72  | 22.81  | 22.82   | 28.90      | 0.7762   |
| 20                                                       | 1                 | 49        |        | 22.76  | 22.86  | 22.90   |            |          |
| 20                                                       | 1                 | 99        |        | 22.80  | 22.80  | 22.82   |            |          |
| 20                                                       | 50                | 0         |        | 21.69  | 21.89  | 21.92   |            |          |
| 20                                                       | 50                | 24        |        | 21.92  | 21.88  | 21.93   |            |          |
| 20                                                       | 50                | 50        |        | 21.92  | 21.85  | 21.95   |            |          |
| 20                                                       | 100               | 0         |        | 21.86  | 21.85  | 21.81   |            |          |
| 20                                                       | 1                 | 0         | 64-QAM | 21.43  | 21.56  | 21.64   | 27.64      | 0.5808   |
| 20                                                       | 1                 | 49        |        | 21.39  | 21.57  | 21.49   |            |          |
| 20                                                       | 1                 | 99        |        | 21.51  | 21.52  | 21.64   |            |          |
| 20                                                       | 50                | 0         |        | 20.79  | 20.98  | 20.87   |            |          |
| 20                                                       | 50                | 24        |        | 20.90  | 20.96  | 20.89   |            |          |
| 20                                                       | 50                | 50        |        | 20.88  | 20.95  | 20.92   |            |          |
| 20                                                       | 100               | 0         |        | 20.93  | 20.93  | 20.90   |            |          |
| Limit                                                    | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 6 dB) |                   |           |        |        |        |         |            |          |
|----------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                 | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                       | 1                 | 0         | QPSK   | 23.69  | 23.67  | 23.76   | 29.76      | 0.9462   |
| 15                                                       | 1                 | 37        |        | 23.45  | 23.66  | 23.62   |            |          |
| 15                                                       | 1                 | 74        |        | 23.63  | 23.61  | 23.64   |            |          |
| 15                                                       | 36                | 0         |        | 22.79  | 22.86  | 22.73   |            |          |
| 15                                                       | 36                | 20        |        | 22.73  | 22.83  | 22.82   |            |          |
| 15                                                       | 36                | 39        |        | 22.63  | 22.83  | 22.76   |            |          |
| 15                                                       | 75                | 0         |        | 22.73  | 22.73  | 22.87   |            |          |
| 15                                                       | 1                 | 0         | 16-QAM | 22.70  | 22.67  | 22.82   | 28.87      | 0.7709   |
| 15                                                       | 1                 | 37        |        | 22.75  | 22.80  | 22.87   |            |          |
| 15                                                       | 1                 | 74        |        | 22.74  | 22.74  | 22.80   |            |          |
| 15                                                       | 36                | 0         |        | 21.66  | 21.81  | 21.85   |            |          |
| 15                                                       | 36                | 20        |        | 21.72  | 21.78  | 21.77   |            |          |
| 15                                                       | 36                | 39        |        | 21.87  | 21.71  | 21.93   |            |          |
| 15                                                       | 75                | 0         |        | 21.68  | 21.76  | 21.71   |            |          |
| 15                                                       | 1                 | 0         | 64-QAM | 21.30  | 21.43  | 21.64   | 27.64      | 0.5808   |
| 15                                                       | 1                 | 37        |        | 21.28  | 21.51  | 21.35   |            |          |
| 15                                                       | 1                 | 74        |        | 21.38  | 21.42  | 21.46   |            |          |
| 15                                                       | 36                | 0         |        | 20.79  | 20.95  | 20.79   |            |          |
| 15                                                       | 36                | 20        |        | 20.74  | 20.76  | 20.77   |            |          |
| 15                                                       | 36                | 39        |        | 20.69  | 20.87  | 20.73   |            |          |
| 15                                                       | 75                | 0         |        | 20.81  | 20.90  | 20.70   |            |          |
| Limit                                                    | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 6 dB) |                   |           |        |        |        |         |            |          |
|----------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                 | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                       | 1                 | 0         | QPSK   | 23.69  | 23.71  | 23.73   | 29.73      | 0.9397   |
| 10                                                       | 1                 | 25        |        | 23.57  | 23.65  | 23.62   |            |          |
| 10                                                       | 1                 | 49        |        | 23.66  | 23.70  | 23.64   |            |          |
| 10                                                       | 25                | 0         |        | 22.79  | 22.68  | 22.60   |            |          |
| 10                                                       | 25                | 12        |        | 22.87  | 22.80  | 22.85   |            |          |
| 10                                                       | 25                | 25        |        | 22.75  | 22.93  | 22.93   |            |          |
| 10                                                       | 50                | 0         |        | 22.73  | 22.80  | 22.71   |            |          |
| 10                                                       | 1                 | 0         | 16-QAM | 22.63  | 22.80  | 22.66   | 28.80      | 0.7586   |
| 10                                                       | 1                 | 25        |        | 22.75  | 22.70  | 22.77   |            |          |
| 10                                                       | 1                 | 49        |        | 22.80  | 22.76  | 22.65   |            |          |
| 10                                                       | 25                | 0         |        | 21.49  | 21.82  | 21.91   |            |          |
| 10                                                       | 25                | 12        |        | 21.85  | 21.80  | 21.80   |            |          |
| 10                                                       | 25                | 25        |        | 21.72  | 21.70  | 21.91   |            |          |
| 10                                                       | 50                | 0         |        | 21.85  | 21.77  | 21.70   |            |          |
| 10                                                       | 1                 | 0         | 64-QAM | 21.42  | 21.53  | 21.46   | 27.62      | 0.5781   |
| 10                                                       | 1                 | 25        |        | 21.20  | 21.53  | 21.41   |            |          |
| 10                                                       | 1                 | 49        |        | 21.48  | 21.47  | 21.62   |            |          |
| 10                                                       | 25                | 0         |        | 20.64  | 20.98  | 20.69   |            |          |
| 10                                                       | 25                | 12        |        | 20.80  | 20.84  | 20.80   |            |          |
| 10                                                       | 25                | 25        |        | 20.82  | 20.97  | 20.90   |            |          |
| 10                                                       | 50                | 0         |        | 20.74  | 20.84  | 20.81   |            |          |
| Limit                                                    | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 6 dB) |                   |           |        |        |        |         |            |          |
|----------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                 | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                        | 1                 | 0         | QPSK   | 23.70  | 23.65  | 23.82   | 29.82      | 0.9594   |
| 5                                                        | 1                 | 12        |        | 23.56  | 23.63  | 23.77   |            |          |
| 5                                                        | 1                 | 24        |        | 23.65  | 23.64  | 23.56   |            |          |
| 5                                                        | 12                | 0         |        | 22.75  | 22.71  | 22.76   |            |          |
| 5                                                        | 12                | 7         |        | 22.75  | 22.79  | 22.84   |            |          |
| 5                                                        | 12                | 13        |        | 22.69  | 22.93  | 22.93   |            |          |
| 5                                                        | 25                | 0         |        | 22.64  | 22.93  | 22.84   |            |          |
| 5                                                        | 1                 | 0         | 16-QAM | 22.65  | 22.63  | 22.72   | 28.80      | 0.7586   |
| 5                                                        | 1                 | 12        |        | 22.64  | 22.77  | 22.80   |            |          |
| 5                                                        | 1                 | 24        |        | 22.73  | 22.74  | 22.74   |            |          |
| 5                                                        | 12                | 0         |        | 21.51  | 21.88  | 21.80   |            |          |
| 5                                                        | 12                | 7         |        | 21.85  | 21.70  | 21.78   |            |          |
| 5                                                        | 12                | 13        |        | 21.91  | 21.84  | 21.80   |            |          |
| 5                                                        | 25                | 0         |        | 21.84  | 21.71  | 21.68   |            |          |
| 5                                                        | 1                 | 0         | 64-QAM | 21.23  | 21.47  | 21.64   | 27.64      | 0.5808   |
| 5                                                        | 1                 | 12        |        | 21.39  | 21.42  | 21.46   |            |          |
| 5                                                        | 1                 | 24        |        | 21.45  | 21.33  | 21.62   |            |          |
| 5                                                        | 12                | 0         |        | 20.66  | 20.93  | 20.87   |            |          |
| 5                                                        | 12                | 7         |        | 20.84  | 20.79  | 20.76   |            |          |
| 5                                                        | 12                | 13        |        | 20.84  | 20.93  | 20.82   |            |          |
| 5                                                        | 25                | 0         |        | 20.89  | 20.74  | 20.71   |            |          |
| Limit                                                    | Output power < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1                 | 0         | QPSK   | 22.69  | 22.94  | 23.54   | 33.84      | 2.4210   |
| 20                                                          | 1                 | 49        |        | 22.64  | 22.83  | 23.41   |            |          |
| 20                                                          | 1                 | 99        |        | 22.62  | 22.93  | 23.26   |            |          |
| 20                                                          | 50                | 0         |        | 21.71  | 21.97  | 22.49   |            |          |
| 20                                                          | 50                | 24        |        | 21.76  | 22.03  | 22.48   |            |          |
| 20                                                          | 50                | 50        |        | 21.77  | 22.09  | 22.44   |            |          |
| 20                                                          | 100               | 0         |        | 21.76  | 22.00  | 22.46   |            |          |
| 20                                                          | 1                 | 0         | 16-QAM | 21.73  | 22.11  | 22.54   | 32.84      | 1.9231   |
| 20                                                          | 1                 | 49        |        | 21.67  | 21.88  | 22.37   |            |          |
| 20                                                          | 1                 | 99        |        | 21.64  | 21.92  | 22.37   |            |          |
| 20                                                          | 50                | 0         |        | 20.82  | 20.89  | 21.47   |            |          |
| 20                                                          | 50                | 24        |        | 20.83  | 20.98  | 21.49   |            |          |
| 20                                                          | 50                | 50        |        | 20.83  | 21.09  | 21.36   |            |          |
| 20                                                          | 100               | 0         |        | 20.77  | 21.09  | 21.46   |            |          |
| 20                                                          | 1                 | 0         | 64-QAM | 20.54  | 20.68  | 21.16   | 31.46      | 1.3996   |
| 20                                                          | 1                 | 49        |        | 20.46  | 20.55  | 21.10   |            |          |
| 20                                                          | 1                 | 99        |        | 20.53  | 20.67  | 21.09   |            |          |
| 20                                                          | 50                | 0         |        | 19.86  | 19.96  | 20.46   |            |          |
| 20                                                          | 50                | 24        |        | 19.87  | 20.03  | 20.53   |            |          |
| 20                                                          | 50                | 50        |        | 19.86  | 20.10  | 20.49   |            |          |
| 20                                                          | 100               | 0         |        | 19.86  | 20.07  | 20.47   |            |          |
| Limit                                                       | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                          | 1                 | 0         | QPSK   | 22.52  | 22.83  | 23.46   | 33.76      | 2.3768   |
| 15                                                          | 1                 | 37        |        | 22.47  | 22.78  | 23.25   |            |          |
| 15                                                          | 1                 | 74        |        | 22.47  | 22.78  | 23.06   |            |          |
| 15                                                          | 36                | 0         |        | 21.64  | 21.81  | 22.46   |            |          |
| 15                                                          | 36                | 20        |        | 21.63  | 22.03  | 22.40   |            |          |
| 15                                                          | 36                | 39        |        | 21.61  | 21.98  | 22.27   |            |          |
| 15                                                          | 75                | 0         |        | 21.76  | 21.81  | 22.33   |            |          |
| 15                                                          | 1                 | 0         | 16-QAM | 21.66  | 22.03  | 22.40   | 32.70      | 1.8621   |
| 15                                                          | 1                 | 37        |        | 21.64  | 21.81  | 22.25   |            |          |
| 15                                                          | 1                 | 74        |        | 21.57  | 21.72  | 22.24   |            |          |
| 15                                                          | 36                | 0         |        | 20.76  | 20.83  | 21.45   |            |          |
| 15                                                          | 36                | 20        |        | 20.71  | 20.86  | 21.45   |            |          |
| 15                                                          | 36                | 39        |        | 20.67  | 21.02  | 21.24   |            |          |
| 15                                                          | 75                | 0         |        | 20.74  | 20.90  | 21.46   |            |          |
| 15                                                          | 1                 | 0         | 64-QAM | 20.45  | 20.59  | 21.14   | 31.44      | 1.3932   |
| 15                                                          | 1                 | 37        |        | 20.34  | 20.47  | 21.04   |            |          |
| 15                                                          | 1                 | 74        |        | 20.47  | 20.63  | 20.97   |            |          |
| 15                                                          | 36                | 0         |        | 19.76  | 19.78  | 20.34   |            |          |
| 15                                                          | 36                | 20        |        | 19.81  | 19.99  | 20.47   |            |          |
| 15                                                          | 36                | 39        |        | 19.75  | 19.98  | 20.36   |            |          |
| 15                                                          | 75                | 0         |        | 19.75  | 19.99  | 20.38   |            |          |
| Limit                                                       | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                          | 1                 | 0         | QPSK   | 22.63  | 22.95  | 23.35   | 33.65      | 2.3174   |
| 10                                                          | 1                 | 25        |        | 22.44  | 22.75  | 23.29   |            |          |
| 10                                                          | 1                 | 49        |        | 22.62  | 22.93  | 23.15   |            |          |
| 10                                                          | 25                | 0         |        | 21.66  | 21.93  | 22.29   |            |          |
| 10                                                          | 25                | 12        |        | 21.73  | 21.92  | 22.39   |            |          |
| 10                                                          | 25                | 25        |        | 21.64  | 21.98  | 22.43   |            |          |
| 10                                                          | 50                | 0         |        | 21.64  | 21.96  | 22.33   |            |          |
| 10                                                          | 1                 | 0         | 16-QAM | 21.65  | 22.00  | 22.42   | 32.72      | 1.8707   |
| 10                                                          | 1                 | 25        |        | 21.47  | 21.86  | 22.36   |            |          |
| 10                                                          | 1                 | 49        |        | 21.64  | 21.79  | 22.21   |            |          |
| 10                                                          | 25                | 0         |        | 20.80  | 20.85  | 21.27   |            |          |
| 10                                                          | 25                | 12        |        | 20.65  | 20.84  | 21.41   |            |          |
| 10                                                          | 25                | 25        |        | 20.70  | 21.06  | 21.20   |            |          |
| 10                                                          | 50                | 0         |        | 20.61  | 21.00  | 21.34   |            |          |
| 10                                                          | 1                 | 0         | 64-QAM | 20.52  | 20.48  | 20.96   | 31.30      | 1.3490   |
| 10                                                          | 1                 | 25        |        | 20.26  | 20.43  | 20.90   |            |          |
| 10                                                          | 1                 | 49        |        | 20.38  | 20.65  | 21.00   |            |          |
| 10                                                          | 25                | 0         |        | 19.81  | 19.87  | 20.38   |            |          |
| 10                                                          | 25                | 12        |        | 19.73  | 20.03  | 20.43   |            |          |
| 10                                                          | 25                | 25        |        | 19.86  | 20.01  | 20.36   |            |          |
| 10                                                          | 50                | 0         |        | 19.79  | 19.89  | 20.45   |            |          |
| Limit                                                       | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41 Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                           | 1                 | 0         | QPSK   | 22.66  | 22.82  | 23.42   | 33.72      | 2.3550   |
| 5                                                           | 1                 | 12        |        | 22.48  | 22.64  | 23.40   |            |          |
| 5                                                           | 1                 | 24        |        | 22.59  | 22.76  | 23.25   |            |          |
| 5                                                           | 12                | 0         |        | 21.60  | 21.90  | 22.45   |            |          |
| 5                                                           | 12                | 7         |        | 21.73  | 21.83  | 22.38   |            |          |
| 5                                                           | 12                | 13        |        | 21.76  | 21.99  | 22.29   |            |          |
| 5                                                           | 25                | 0         |        | 21.60  | 21.96  | 22.46   |            |          |
| 5                                                           | 1                 | 0         | 16-QAM | 21.60  | 22.03  | 22.46   | 32.76      | 1.8880   |
| 5                                                           | 1                 | 12        |        | 21.64  | 21.88  | 22.17   |            |          |
| 5                                                           | 1                 | 24        |        | 21.57  | 21.75  | 22.19   |            |          |
| 5                                                           | 12                | 0         |        | 20.73  | 20.86  | 21.44   |            |          |
| 5                                                           | 12                | 7         |        | 20.73  | 20.82  | 21.45   |            |          |
| 5                                                           | 12                | 13        |        | 20.66  | 21.08  | 21.34   |            |          |
| 5                                                           | 25                | 0         |        | 20.73  | 20.92  | 21.26   |            |          |
| 5                                                           | 1                 | 0         | 64-QAM | 20.48  | 20.56  | 21.03   | 31.38      | 1.3740   |
| 5                                                           | 1                 | 12        |        | 20.33  | 20.37  | 20.91   |            |          |
| 5                                                           | 1                 | 24        |        | 20.37  | 20.52  | 21.08   |            |          |
| 5                                                           | 12                | 0         |        | 19.72  | 19.85  | 20.34   |            |          |
| 5                                                           | 12                | 7         |        | 19.84  | 19.99  | 20.41   |            |          |
| 5                                                           | 12                | 13        |        | 19.72  | 19.94  | 20.41   |            |          |
| 5                                                           | 25                | 0         |        | 19.80  | 19.93  | 20.45   |            |          |
| Limit                                                       | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                          | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                                | 1                 | 0         | QPSK   | 26.32  | 26.35  | 26.49   | 36.79      | 4.7753   |
| 20                                                                | 1                 | 49        |        | 26.31  | 26.33  | 26.47   |            |          |
| 20                                                                | 1                 | 99        |        | 26.30  | 26.17  | 26.35   |            |          |
| 20                                                                | 50                | 0         |        | 25.47  | 25.58  | 26.49   |            |          |
| 20                                                                | 50                | 24        |        | 25.54  | 25.51  | 26.22   |            |          |
| 20                                                                | 50                | 50        |        | 25.53  | 25.33  | 25.75   |            |          |
| 20                                                                | 100               | 0         |        | 25.55  | 25.46  | 26.04   |            |          |
| 20                                                                | 1                 | 0         | 16-QAM | 25.83  | 25.89  | 26.02   | 36.33      | 4.2954   |
| 20                                                                | 1                 | 49        |        | 25.71  | 25.69  | 26.03   |            |          |
| 20                                                                | 1                 | 99        |        | 25.66  | 25.52  | 25.63   |            |          |
| 20                                                                | 50                | 0         |        | 24.50  | 24.66  | 25.52   |            |          |
| 20                                                                | 50                | 24        |        | 24.56  | 24.62  | 25.29   |            |          |
| 20                                                                | 50                | 50        |        | 24.52  | 24.47  | 24.83   |            |          |
| 20                                                                | 100               | 0         |        | 24.53  | 24.53  | 25.07   |            |          |
| 20                                                                | 1                 | 0         | 64-QAM | 24.42  | 23.93  | 25.00   | 35.30      | 3.3884   |
| 20                                                                | 1                 | 49        |        | 24.29  | 23.71  | 24.61   |            |          |
| 20                                                                | 1                 | 99        |        | 24.35  | 23.48  | 23.73   |            |          |
| 20                                                                | 50                | 0         |        | 23.07  | 22.69  | 23.76   |            |          |
| 20                                                                | 50                | 24        |        | 23.02  | 22.60  | 23.40   |            |          |
| 20                                                                | 50                | 50        |        | 23.02  | 22.48  | 22.92   |            |          |
| 20                                                                | 100               | 0         |        | 23.09  | 22.58  | 23.13   |            |          |
| Limit                                                             | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                          | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                                | 1                 | 0         | QPSK   | 26.34  | 26.33  | 26.48   | 36.78      | 4.7643   |
| 15                                                                | 1                 | 37        |        | 26.27  | 26.22  | 26.46   |            |          |
| 15                                                                | 1                 | 74        |        | 26.27  | 26.16  | 26.27   |            |          |
| 15                                                                | 36                | 0         |        | 25.48  | 25.51  | 26.19   |            |          |
| 15                                                                | 36                | 20        |        | 25.50  | 25.39  | 25.86   |            |          |
| 15                                                                | 36                | 39        |        | 25.51  | 25.36  | 25.60   |            |          |
| 15                                                                | 75                | 0         |        | 25.50  | 25.41  | 25.83   |            |          |
| 15                                                                | 1                 | 0         | 16-QAM | 25.83  | 25.91  | 26.45   | 36.75      | 4.7315   |
| 15                                                                | 1                 | 37        |        | 25.66  | 25.60  | 26.09   |            |          |
| 15                                                                | 1                 | 74        |        | 25.64  | 25.61  | 25.66   |            |          |
| 15                                                                | 36                | 0         |        | 24.52  | 24.58  | 25.28   |            |          |
| 15                                                                | 36                | 20        |        | 24.53  | 24.46  | 24.96   |            |          |
| 15                                                                | 36                | 39        |        | 24.53  | 24.48  | 24.66   |            |          |
| 15                                                                | 75                | 0         |        | 24.55  | 24.53  | 24.96   |            |          |
| 15                                                                | 1                 | 0         | 64-QAM | 24.28  | 24.05  | 24.80   | 35.10      | 3.2359   |
| 15                                                                | 1                 | 37        |        | 24.26  | 23.61  | 24.19   |            |          |
| 15                                                                | 1                 | 74        |        | 24.20  | 23.62  | 23.78   |            |          |
| 15                                                                | 36                | 0         |        | 23.20  | 22.56  | 23.33   |            |          |
| 15                                                                | 36                | 20        |        | 23.13  | 22.46  | 22.99   |            |          |
| 15                                                                | 36                | 39        |        | 23.07  | 22.49  | 22.71   |            |          |
| 15                                                                | 75                | 0         |        | 23.11  | 22.52  | 23.02   |            |          |
| Limit                                                             | Output power < 2W |           |        | Result |        |         | Fail       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                          | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                                | 1                 | 0         | QPSK   | 26.31  | 26.39  | 26.48   | 36.78      | 4.7643   |
| 10                                                                | 1                 | 25        |        | 26.22  | 26.25  | 26.41   |            |          |
| 10                                                                | 1                 | 49        |        | 26.35  | 26.17  | 26.01   |            |          |
| 10                                                                | 25                | 0         |        | 25.54  | 25.41  | 25.83   |            |          |
| 10                                                                | 25                | 12        |        | 25.56  | 25.39  | 25.68   |            |          |
| 10                                                                | 25                | 25        |        | 25.51  | 25.36  | 25.47   |            |          |
| 10                                                                | 50                | 0         |        | 25.53  | 25.33  | 25.59   |            |          |
| 10                                                                | 1                 | 0         | 16-QAM | 26.01  | 25.77  | 26.27   | 36.57      | 4.5394   |
| 10                                                                | 1                 | 25        |        | 25.77  | 25.62  | 25.87   |            |          |
| 10                                                                | 1                 | 49        |        | 25.80  | 25.57  | 25.62   |            |          |
| 10                                                                | 25                | 0         |        | 24.61  | 24.53  | 24.94   |            |          |
| 10                                                                | 25                | 12        |        | 24.61  | 24.52  | 24.83   |            |          |
| 10                                                                | 25                | 25        |        | 24.58  | 24.48  | 24.58   |            |          |
| 10                                                                | 50                | 0         |        | 24.53  | 24.45  | 24.68   |            |          |
| 10                                                                | 1                 | 0         | 64-QAM | 24.23  | 23.91  | 24.44   | 34.74      | 2.9785   |
| 10                                                                | 1                 | 25        |        | 24.29  | 23.61  | 24.05   |            |          |
| 10                                                                | 1                 | 49        |        | 24.26  | 23.61  | 23.73   |            |          |
| 10                                                                | 25                | 0         |        | 23.16  | 22.56  | 23.01   |            |          |
| 10                                                                | 25                | 12        |        | 23.15  | 22.54  | 22.89   |            |          |
| 10                                                                | 25                | 25        |        | 23.11  | 22.48  | 22.62   |            |          |
| 10                                                                | 50                | 0         |        | 23.05  | 22.51  | 22.73   |            |          |
| Limit                                                             | Output power < 2W |           |        | Result |        |         | Fail       |          |



| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |        |        |        |         |            |          |
|-------------------------------------------------------------------|-------------------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                          | RB Size           | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                                 | 1                 | 0         | QPSK   | 26.49  | 26.28  | 26.39   | 36.79      | 4.7753   |
| 5                                                                 | 1                 | 12        |        | 26.47  | 26.24  | 26.32   |            |          |
| 5                                                                 | 1                 | 24        |        | 26.43  | 26.21  | 26.16   |            |          |
| 5                                                                 | 12                | 0         |        | 25.57  | 25.38  | 25.47   |            |          |
| 5                                                                 | 12                | 7         |        | 25.58  | 25.45  | 25.42   |            |          |
| 5                                                                 | 12                | 13        |        | 25.55  | 25.42  | 25.30   |            |          |
| 5                                                                 | 25                | 0         |        | 25.55  | 25.34  | 25.29   |            |          |
| 5                                                                 | 1                 | 0         | 16-QAM | 25.91  | 25.62  | 25.88   | 36.21      | 4.1783   |
| 5                                                                 | 1                 | 12        |        | 25.76  | 25.58  | 25.71   |            |          |
| 5                                                                 | 1                 | 24        |        | 25.72  | 25.63  | 25.46   |            |          |
| 5                                                                 | 12                | 0         |        | 24.56  | 24.51  | 24.62   |            |          |
| 5                                                                 | 12                | 7         |        | 24.63  | 24.52  | 24.60   |            |          |
| 5                                                                 | 12                | 13        |        | 24.60  | 24.54  | 24.43   |            |          |
| 5                                                                 | 25                | 0         |        | 24.59  | 24.44  | 24.44   |            |          |
| 5                                                                 | 1                 | 0         | 64-QAM | 24.34  | 23.66  | 23.89   | 34.64      | 2.9107   |
| 5                                                                 | 1                 | 12        |        | 24.30  | 23.59  | 23.72   |            |          |
| 5                                                                 | 1                 | 24        |        | 24.32  | 23.76  | 23.64   |            |          |
| 5                                                                 | 12                | 0         |        | 23.24  | 22.55  | 22.72   |            |          |
| 5                                                                 | 12                | 7         |        | 23.33  | 22.59  | 22.63   |            |          |
| 5                                                                 | 12                | 13        |        | 23.28  | 22.54  | 22.52   |            |          |
| 5                                                                 | 25                | 0         |        | 23.16  | 22.55  | 22.50   |            |          |
| Limit                                                             | Output power < 2W |           |        | Result |        |         | Fail       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 21.02  | 21.11  | 21.02   | 29.61      | 0.9141   |
| 20                                                         | 1         | 49        |        | 20.87  | 20.98  | 21.02   |            |          |
| 20                                                         | 1         | 99        |        | 21.04  | 21.10  | 20.78   |            |          |
| 20                                                         | 50        | 0         |        | 19.91  | 20.01  | 20.17   |            |          |
| 20                                                         | 50        | 24        |        | 20.09  | 20.13  | 20.11   |            |          |
| 20                                                         | 50        | 50        |        | 20.00  | 20.13  | 20.09   |            |          |
| 20                                                         | 100       | 0         |        | 20.04  | 20.19  | 20.09   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 20.45  | 20.41  | 20.29   | 29.00      | 0.7943   |
| 20                                                         | 1         | 49        |        | 20.22  | 20.50  | 20.32   |            |          |
| 20                                                         | 1         | 99        |        | 20.23  | 20.49  | 20.35   |            |          |
| 20                                                         | 50        | 0         |        | 18.84  | 19.08  | 19.05   |            |          |
| 20                                                         | 50        | 24        |        | 19.12  | 19.12  | 19.19   |            |          |
| 20                                                         | 50        | 50        |        | 19.10  | 19.15  | 19.14   |            |          |
| 20                                                         | 100       | 0         |        | 19.03  | 19.10  | 19.07   |            |          |
| 20                                                         | 1         | 0         | 64-QAM | 19.21  | 19.16  | 19.21   | 27.86      | 0.6109   |
| 20                                                         | 1         | 49        |        | 19.17  | 19.20  | 19.36   |            |          |
| 20                                                         | 1         | 99        |        | 19.33  | 19.22  | 19.12   |            |          |
| 20                                                         | 50        | 0         |        | 17.99  | 17.91  | 18.16   |            |          |
| 20                                                         | 50        | 24        |        | 18.01  | 18.09  | 18.20   |            |          |
| 20                                                         | 50        | 50        |        | 18.10  | 18.20  | 18.16   |            |          |
| 20                                                         | 100       | 0         |        | 18.01  | 18.11  | 18.11   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 20.92  | 20.91  | 20.93   | 29.59      | 0.9099   |
| 15                                                         | 1         | 37        |        | 20.97  | 20.98  | 20.87   |            |          |
| 15                                                         | 1         | 74        |        | 21.09  | 21.00  | 21.01   |            |          |
| 15                                                         | 36        | 0         |        | 20.04  | 19.97  | 19.92   |            |          |
| 15                                                         | 36        | 20        |        | 20.12  | 20.11  | 20.05   |            |          |
| 15                                                         | 36        | 39        |        | 20.09  | 20.02  | 20.08   |            |          |
| 15                                                         | 75        | 0         |        | 20.09  | 20.04  | 20.00   |            |          |
| 15                                                         | 1         | 0         | 16-QAM | 20.22  | 20.14  | 20.25   | 28.91      | 0.7780   |
| 15                                                         | 1         | 37        |        | 20.41  | 20.26  | 20.40   |            |          |
| 15                                                         | 1         | 74        |        | 20.36  | 20.22  | 20.35   |            |          |
| 15                                                         | 36        | 0         |        | 19.11  | 18.96  | 19.00   |            |          |
| 15                                                         | 36        | 20        |        | 19.17  | 19.10  | 19.00   |            |          |
| 15                                                         | 36        | 39        |        | 19.10  | 19.06  | 19.06   |            |          |
| 15                                                         | 75        | 0         |        | 19.10  | 19.03  | 19.03   |            |          |
| 15                                                         | 1         | 0         | 64-QAM | 19.21  | 19.39  | 19.17   | 28.00      | 0.6310   |
| 15                                                         | 1         | 37        |        | 19.50  | 19.24  | 19.09   |            |          |
| 15                                                         | 1         | 74        |        | 19.27  | 19.15  | 19.20   |            |          |
| 15                                                         | 36        | 0         |        | 18.08  | 18.03  | 18.00   |            |          |
| 15                                                         | 36        | 20        |        | 18.14  | 18.06  | 17.91   |            |          |
| 15                                                         | 36        | 39        |        | 18.05  | 18.15  | 18.01   |            |          |
| 15                                                         | 75        | 0         |        | 18.06  | 18.07  | 17.95   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 21.03  | 20.97  | 20.93   | 29.59      | 0.9099   |
| 10                                                         | 1         | 25        |        | 20.96  | 20.99  | 20.75   |            |          |
| 10                                                         | 1         | 49        |        | 20.95  | 21.09  | 20.98   |            |          |
| 10                                                         | 25        | 0         |        | 20.13  | 19.97  | 19.97   |            |          |
| 10                                                         | 25        | 12        |        | 20.07  | 20.09  | 19.95   |            |          |
| 10                                                         | 25        | 25        |        | 20.07  | 20.05  | 19.95   |            |          |
| 10                                                         | 50        | 0         |        | 20.07  | 20.05  | 20.01   |            |          |
| 10                                                         | 1         | 0         | 16-QAM | 20.26  | 19.96  | 20.23   | 28.83      | 0.7638   |
| 10                                                         | 1         | 25        |        | 20.25  | 20.28  | 20.27   |            |          |
| 10                                                         | 1         | 49        |        | 20.19  | 20.20  | 20.33   |            |          |
| 10                                                         | 25        | 0         |        | 19.08  | 18.95  | 18.84   |            |          |
| 10                                                         | 25        | 12        |        | 19.04  | 19.12  | 19.04   |            |          |
| 10                                                         | 25        | 25        |        | 19.04  | 19.12  | 18.91   |            |          |
| 10                                                         | 50        | 0         |        | 19.03  | 19.07  | 19.07   |            |          |
| 10                                                         | 1         | 0         | 64-QAM | 19.31  | 18.98  | 18.97   | 27.92      | 0.6194   |
| 10                                                         | 1         | 25        |        | 19.11  | 19.14  | 19.16   |            |          |
| 10                                                         | 1         | 49        |        | 19.14  | 19.42  | 19.01   |            |          |
| 10                                                         | 25        | 0         |        | 18.08  | 18.02  | 17.92   |            |          |
| 10                                                         | 25        | 12        |        | 18.07  | 18.11  | 18.06   |            |          |
| 10                                                         | 25        | 25        |        | 18.08  | 18.10  | 17.91   |            |          |
| 10                                                         | 50        | 0         |        | 18.12  | 18.01  | 18.01   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 21.05  | 20.79  | 20.87   | 29.55      | 0.9016   |
| 5                                                          | 1         | 12        |        | 20.92  | 20.86  | 20.97   |            |          |
| 5                                                          | 1         | 24        |        | 20.94  | 20.97  | 20.92   |            |          |
| 5                                                          | 12        | 0         |        | 20.13  | 20.05  | 19.94   |            |          |
| 5                                                          | 12        | 7         |        | 20.09  | 20.09  | 20.02   |            |          |
| 5                                                          | 12        | 13        |        | 20.10  | 20.07  | 20.00   |            |          |
| 5                                                          | 25        | 0         |        | 20.13  | 20.08  | 20.01   |            |          |
| 5                                                          | 1         | 0         | 16-QAM | 20.36  | 20.37  | 20.13   | 28.95      | 0.7852   |
| 5                                                          | 1         | 12        |        | 20.35  | 20.22  | 20.31   |            |          |
| 5                                                          | 1         | 24        |        | 20.31  | 20.45  | 20.31   |            |          |
| 5                                                          | 12        | 0         |        | 19.13  | 19.09  | 19.04   |            |          |
| 5                                                          | 12        | 7         |        | 19.18  | 19.08  | 19.00   |            |          |
| 5                                                          | 12        | 13        |        | 19.10  | 19.07  | 19.05   |            |          |
| 5                                                          | 25        | 0         |        | 19.11  | 19.08  | 19.02   |            |          |
| 5                                                          | 1         | 0         | 64-QAM | 19.30  | 19.00  | 19.22   | 27.84      | 0.6081   |
| 5                                                          | 1         | 12        |        | 19.32  | 19.18  | 19.19   |            |          |
| 5                                                          | 1         | 24        |        | 19.13  | 19.27  | 19.34   |            |          |
| 5                                                          | 12        | 0         |        | 18.07  | 18.18  | 18.01   |            |          |
| 5                                                          | 12        | 7         |        | 18.22  | 18.14  | 18.06   |            |          |
| 5                                                          | 12        | 13        |        | 18.07  | 18.13  | 18.01   |            |          |
| 5                                                          | 25        | 0         |        | 18.12  | 18.14  | 18.08   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 21.07  | 20.95  | 20.88   | 29.59      | 0.9099   |
| 3                                                          | 1         | 8         |        | 21.09  | 20.98  | 20.98   |            |          |
| 3                                                          | 1         | 14        |        | 20.98  | 21.04  | 20.86   |            |          |
| 3                                                          | 8         | 0         |        | 20.13  | 20.04  | 19.96   |            |          |
| 3                                                          | 8         | 4         |        | 20.16  | 20.07  | 20.00   |            |          |
| 3                                                          | 8         | 7         |        | 20.09  | 20.02  | 20.00   |            |          |
| 3                                                          | 15        | 0         |        | 20.12  | 20.04  | 20.03   |            |          |
| 3                                                          | 1         | 0         | 16-QAM | 20.38  | 20.30  | 20.19   | 28.94      | 0.7834   |
| 3                                                          | 1         | 8         |        | 20.44  | 20.21  | 20.26   |            |          |
| 3                                                          | 1         | 14        |        | 20.39  | 20.33  | 20.27   |            |          |
| 3                                                          | 8         | 0         |        | 19.20  | 19.13  | 19.00   |            |          |
| 3                                                          | 8         | 4         |        | 19.21  | 19.08  | 19.09   |            |          |
| 3                                                          | 8         | 7         |        | 19.11  | 19.13  | 19.01   |            |          |
| 3                                                          | 15        | 0         |        | 19.13  | 19.11  | 19.04   |            |          |
| 3                                                          | 1         | 0         | 64-QAM | 19.24  | 19.16  | 19.27   | 27.82      | 0.6053   |
| 3                                                          | 1         | 8         |        | 19.29  | 19.12  | 19.05   |            |          |
| 3                                                          | 1         | 14        |        | 19.32  | 19.25  | 19.20   |            |          |
| 3                                                          | 8         | 0         |        | 18.25  | 18.18  | 18.11   |            |          |
| 3                                                          | 8         | 4         |        | 18.15  | 18.18  | 18.13   |            |          |
| 3                                                          | 8         | 7         |        | 18.15  | 18.13  | 18.07   |            |          |
| 3                                                          | 15        | 0         |        | 18.13  | 17.99  | 18.09   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 20.94  | 20.96  | 20.81   | 29.54      | 0.8995   |
| 1.4                                                        | 1         | 3         |        | 20.97  | 20.92  | 21.01   |            |          |
| 1.4                                                        | 1         | 5         |        | 21.00  | 20.93  | 20.86   |            |          |
| 1.4                                                        | 3         | 0         |        | 21.01  | 20.91  | 20.82   |            |          |
| 1.4                                                        | 3         | 1         |        | 21.04  | 20.99  | 20.89   |            |          |
| 1.4                                                        | 3         | 3         |        | 21.02  | 20.99  | 20.89   |            |          |
| 1.4                                                        | 6         | 0         |        | 20.04  | 20.02  | 19.94   |            |          |
| 1.4                                                        | 1         | 0         | 16-QAM | 20.35  | 20.15  | 20.19   | 28.85      | 0.7674   |
| 1.4                                                        | 1         | 3         |        | 20.30  | 20.31  | 20.29   |            |          |
| 1.4                                                        | 1         | 5         |        | 20.26  | 20.28  | 20.22   |            |          |
| 1.4                                                        | 3         | 0         |        | 20.12  | 20.16  | 19.90   |            |          |
| 1.4                                                        | 3         | 1         |        | 20.24  | 20.17  | 20.16   |            |          |
| 1.4                                                        | 3         | 3         |        | 20.14  | 20.16  | 20.10   |            |          |
| 1.4                                                        | 6         | 0         |        | 19.06  | 19.06  | 19.01   |            |          |
| 1.4                                                        | 1         | 0         | 64-QAM | 19.33  | 19.09  | 19.02   | 27.83      | 0.6067   |
| 1.4                                                        | 1         | 3         |        | 19.22  | 19.24  | 19.10   |            |          |
| 1.4                                                        | 1         | 5         |        | 19.29  | 19.18  | 19.04   |            |          |
| 1.4                                                        | 3         | 0         |        | 19.21  | 19.10  | 19.01   |            |          |
| 1.4                                                        | 3         | 1         |        | 19.23  | 19.19  | 19.07   |            |          |
| 1.4                                                        | 3         | 3         |        | 19.25  | 19.19  | 18.99   |            |          |
| 1.4                                                        | 6         | 0         |        | 18.09  | 18.05  | 17.97   |            |          |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 3.1 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 20                                                         | 1         | 0         | QPSK   | 23.69  | 23.63  | 23.64   | 24.64     | 0.2911  |
| 20                                                         | 1         | 49        |        | 23.33  | 23.61  | 23.59   |           |         |
| 20                                                         | 1         | 99        |        | 23.63  | 23.57  | 23.58   |           |         |
| 20                                                         | 50        | 0         |        | 22.55  | 22.56  | 22.67   |           |         |
| 20                                                         | 50        | 24        |        | 22.55  | 22.58  | 22.71   |           |         |
| 20                                                         | 50        | 50        |        | 22.65  | 22.78  | 22.79   |           |         |
| 20                                                         | 100       | 0         |        | 22.65  | 22.68  | 22.64   |           |         |
| 20                                                         | 1         | 0         | 16-QAM | 23.12  | 22.56  | 22.91   | 24.35     | 0.2723  |
| 20                                                         | 1         | 49        |        | 23.09  | 22.98  | 23.02   |           |         |
| 20                                                         | 1         | 99        |        | 22.67  | 23.40  | 22.90   |           |         |
| 20                                                         | 50        | 0         |        | 21.51  | 21.56  | 21.63   |           |         |
| 20                                                         | 50        | 24        |        | 21.63  | 21.72  | 21.74   |           |         |
| 20                                                         | 50        | 50        |        | 21.62  | 21.74  | 21.71   |           |         |
| 20                                                         | 100       | 0         |        | 21.52  | 21.59  | 21.69   |           |         |
| 20                                                         | 1         | 0         | 64-QAM | 21.20  | 21.35  | 22.06   | 23.01     | 0.2000  |
| 20                                                         | 1         | 49        |        | 20.57  | 20.71  | 21.50   |           |         |
| 20                                                         | 1         | 99        |        | 21.07  | 21.89  | 21.75   |           |         |
| 20                                                         | 50        | 0         |        | 19.55  | 20.20  | 19.94   |           |         |
| 20                                                         | 50        | 24        |        | 19.84  | 19.99  | 20.30   |           |         |
| 20                                                         | 50        | 50        |        | 20.11  | 20.14  | 20.67   |           |         |
| 20                                                         | 100       | 0         |        | 19.89  | 20.27  | 20.15   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



# FCC RADIO TEST REPORT

Report No. : FG082512A

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 3.1 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                         | 1         | 0         | QPSK   | 23.51  | 23.57  | 23.59   | 24.54     | 0.2844  |
| 15                                                         | 1         | 37        |        | 23.23  | 23.52  | 23.54   |           |         |
| 15                                                         | 1         | 74        |        | 23.45  | 23.48  | 23.49   |           |         |
| 15                                                         | 36        | 0         |        | 22.39  | 22.44  | 22.50   |           |         |
| 15                                                         | 36        | 20        |        | 22.39  | 22.47  | 22.63   |           |         |
| 15                                                         | 36        | 39        |        | 22.48  | 22.75  | 22.70   |           |         |
| 15                                                         | 75        | 0         |        | 22.56  | 22.57  | 22.50   |           |         |
| 15                                                         | 1         | 0         | 16-QAM | 23.02  | 22.41  | 22.86   | 24.32     | 0.2704  |
| 15                                                         | 1         | 37        |        | 22.95  | 22.98  | 22.83   |           |         |
| 15                                                         | 1         | 74        |        | 22.52  | 23.37  | 22.84   |           |         |
| 15                                                         | 36        | 0         |        | 21.48  | 21.36  | 21.55   |           |         |
| 15                                                         | 36        | 20        |        | 21.46  | 21.52  | 21.65   |           |         |
| 15                                                         | 36        | 39        |        | 21.48  | 21.74  | 21.61   |           |         |
| 15                                                         | 75        | 0         |        | 21.46  | 21.55  | 21.60   |           |         |
| 15                                                         | 1         | 0         | 64-QAM | 21.06  | 21.24  | 22.04   | 22.99     | 0.1991  |
| 15                                                         | 1         | 37        |        | 20.45  | 20.64  | 21.43   |           |         |
| 15                                                         | 1         | 74        |        | 21.00  | 21.81  | 21.55   |           |         |
| 15                                                         | 36        | 0         |        | 19.37  | 20.14  | 19.74   |           |         |
| 15                                                         | 36        | 20        |        | 19.72  | 19.86  | 20.23   |           |         |
| 15                                                         | 36        | 39        |        | 20.06  | 20.01  | 20.49   |           |         |
| 15                                                         | 75        | 0         |        | 19.72  | 20.20  | 20.01   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 3.1 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1         | 0         | QPSK   | 23.67  | 23.43  | 23.61   | 24.62     | 0.2897  |
| 10                                                         | 1         | 25        |        | 23.16  | 23.41  | 23.55   |           |         |
| 10                                                         | 1         | 49        |        | 23.63  | 23.37  | 23.55   |           |         |
| 10                                                         | 25        | 0         |        | 22.40  | 22.53  | 22.58   |           |         |
| 10                                                         | 25        | 12        |        | 22.55  | 22.43  | 22.61   |           |         |
| 10                                                         | 25        | 25        |        | 22.55  | 22.65  | 22.65   |           |         |
| 10                                                         | 50        | 0         |        | 22.50  | 22.55  | 22.44   |           |         |
| 10                                                         | 1         | 0         | 16-QAM | 23.05  | 22.49  | 22.76   | 24.27     | 0.2673  |
| 10                                                         | 1         | 25        |        | 22.89  | 22.84  | 23.01   |           |         |
| 10                                                         | 1         | 49        |        | 22.63  | 23.32  | 22.83   |           |         |
| 10                                                         | 25        | 0         |        | 21.50  | 21.55  | 21.60   |           |         |
| 10                                                         | 25        | 12        |        | 21.55  | 21.67  | 21.61   |           |         |
| 10                                                         | 25        | 25        |        | 21.58  | 21.68  | 21.71   |           |         |
| 10                                                         | 50        | 0         |        | 21.38  | 21.58  | 21.68   |           |         |
| 10                                                         | 1         | 0         | 64-QAM | 21.12  | 21.16  | 21.87   | 22.82     | 0.1914  |
| 10                                                         | 1         | 25        |        | 20.46  | 20.53  | 21.49   |           |         |
| 10                                                         | 1         | 49        |        | 20.90  | 21.82  | 21.60   |           |         |
| 10                                                         | 25        | 0         |        | 19.44  | 20.01  | 19.75   |           |         |
| 10                                                         | 25        | 12        |        | 19.67  | 19.87  | 20.15   |           |         |
| 10                                                         | 25        | 25        |        | 19.98  | 19.96  | 20.59   |           |         |
| 10                                                         | 50        | 0         |        | 19.83  | 20.15  | 20.11   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = 3.1 dB) |           |           |        |        |        |         |           |         |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.59  | 23.47  | 23.55   | 24.54     | 0.2844  |
| 5                                                          | 1         | 12        |        | 23.18  | 23.42  | 23.40   |           |         |
| 5                                                          | 1         | 24        |        | 23.54  | 23.42  | 23.54   |           |         |
| 5                                                          | 12        | 0         |        | 22.43  | 22.49  | 22.53   |           |         |
| 5                                                          | 12        | 7         |        | 22.38  | 22.55  | 22.58   |           |         |
| 5                                                          | 12        | 13        |        | 22.53  | 22.76  | 22.59   |           |         |
| 5                                                          | 25        | 0         |        | 22.46  | 22.50  | 22.46   |           |         |
| 5                                                          | 1         | 0         | 16-QAM | 23.10  | 22.47  | 22.88   | 24.3      | 0.2692  |
| 5                                                          | 1         | 12        |        | 23.01  | 22.91  | 22.83   |           |         |
| 5                                                          | 1         | 24        |        | 22.60  | 23.35  | 22.70   |           |         |
| 5                                                          | 12        | 0         |        | 21.37  | 21.51  | 21.45   |           |         |
| 5                                                          | 12        | 7         |        | 21.43  | 21.61  | 21.54   |           |         |
| 5                                                          | 12        | 13        |        | 21.48  | 21.64  | 21.58   |           |         |
| 5                                                          | 25        | 0         |        | 21.36  | 21.49  | 21.66   |           |         |
| 5                                                          | 1         | 0         | 64-QAM | 21.19  | 21.16  | 22.06   | 23.01     | 0.2000  |
| 5                                                          | 1         | 12        |        | 20.54  | 20.69  | 21.45   |           |         |
| 5                                                          | 1         | 24        |        | 21.06  | 21.81  | 21.65   |           |         |
| 5                                                          | 12        | 0         |        | 19.39  | 20.01  | 19.79   |           |         |
| 5                                                          | 12        | 7         |        | 19.84  | 19.79  | 20.18   |           |         |
| 5                                                          | 12        | 13        |        | 20.07  | 20.09  | 20.47   |           |         |
| 5                                                          | 25        | 0         |        | 19.77  | 20.14  | 19.99   |           |         |
| Limit                                                      | ERP < 30W |           |        | Result |        |         | Pass      |         |



| LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = 6 dB) |                   |           |         |           |        |        |        |         |            |          |
|--------------------------------------------------------------|-------------------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                     | PCC               |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                              | RB Size           | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+20                                                        | 100               | 0         | 100     | 0         | QPSK   | 22.27  | 22.31  | 22.37   | 29.99      | 0.9977   |
| 20+20                                                        | 1                 | 0         | 1       | 99        |        | 15.66  | 15.65  | 15.71   |            |          |
| 20+20                                                        | 1                 | 99        | 1       | 0         |        | 23.98  | 23.99  | 23.95   |            |          |
| 20+20                                                        | 100               | 0         | 100     | 0         | 16-QAM | 21.29  | 21.22  | 21.35   | 29.74      | 0.9419   |
| 20+20                                                        | 1                 | 0         | 1       | 99        |        | 16.18  | 16.18  | 16.29   |            |          |
| 20+20                                                        | 1                 | 99        | 1       | 0         |        | 23.66  | 23.71  | 23.74   |            |          |
| 20+20                                                        | 100               | 0         | 100     | 0         | 64-QAM | 21.27  | 21.25  | 21.34   | 28.34      | 0.6823   |
| 20+20                                                        | 1                 | 0         | 1       | 99        |        | 16.11  | 16.05  | 16.12   |            |          |
| 20+20                                                        | 1                 | 99        | 1       | 0         |        | 22.25  | 22.29  | 22.34   |            |          |
| 15+15                                                        | 75                | 0         | 75      | 0         | QPSK   | 22.20  | 22.31  | 22.33   | 29.97      | 0.9931   |
| 15+15                                                        | 1                 | 0         | 1       | 74        |        | 15.61  | 15.65  | 15.71   |            |          |
| 15+15                                                        | 1                 | 74        | 1       | 0         |        | 23.91  | 23.97  | 23.97   |            |          |
| 15+15                                                        | 75                | 0         | 75      | 0         | 16-QAM | 21.20  | 21.30  | 21.27   | 29.74      | 0.9419   |
| 15+15                                                        | 1                 | 0         | 1       | 74        |        | 16.14  | 16.21  | 16.26   |            |          |
| 15+15                                                        | 1                 | 74        | 1       | 0         |        | 23.54  | 23.74  | 23.69   |            |          |
| 15+15                                                        | 75                | 0         | 75      | 0         | 64-QAM | 21.21  | 21.29  | 21.30   | 28.34      | 0.6823   |
| 15+15                                                        | 1                 | 0         | 1       | 74        |        | 15.97  | 16.06  | 16.06   |            |          |
| 15+15                                                        | 1                 | 74        | 1       | 0         |        | 22.20  | 22.34  | 22.27   |            |          |
| Limit                                                        | Output power < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |         |           |        |        |        |         |            |          |
|-----------------------------------------------------------------|-------------------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                        | PCC               |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                 | RB Size           | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+20                                                           | 100               | 0         | 100     | 0         | QPSK   | 22.14  | 22.19  | 23.08   | 34.28      | 2.6792   |
| 20+20                                                           | 1                 | 0         | 1       | 99        |        | 15.64  | 15.79  | 16.40   |            |          |
| 20+20                                                           | 1                 | 99        | 1       | 0         |        | 23.90  | 23.91  | 23.98   |            |          |
| 20+20                                                           | 100               | 0         | 100     | 0         | 16-QAM | 21.11  | 21.22  | 22.09   | 33.48      | 2.2284   |
| 20+20                                                           | 1                 | 0         | 1       | 99        |        | 15.74  | 15.81  | 16.64   |            |          |
| 20+20                                                           | 1                 | 99        | 1       | 0         |        | 23.03  | 23.18  | 22.97   |            |          |
| 20+20                                                           | 100               | 0         | 100     | 0         | 64-QAM | 21.13  | 21.24  | 22.13   | 32.43      | 1.7498   |
| 20+20                                                           | 1                 | 0         | 1       | 99        |        | 15.71  | 15.69  | 16.48   |            |          |
| 20+20                                                           | 1                 | 99        | 1       | 0         |        | 21.93  | 22.08  | 21.52   |            |          |
| 20+15                                                           | 100               | 0         | 75      | 0         | QPSK   | 22.09  | 22.26  | 23.03   | 33.33      | 2.1528   |
| 20+15                                                           | 1                 | 0         | 1       | 74        |        | 15.58  | 15.65  | 16.39   |            |          |
| 20+15                                                           | 1                 | 99        | 1       | 0         |        | 20.11  | 20.23  | 18.73   |            |          |
| 20+15                                                           | 100               | 0         | 75      | 0         | 16-QAM | 21.11  | 21.26  | 22.04   | 32.34      | 1.7140   |
| 20+15                                                           | 1                 | 0         | 1       | 74        |        | 15.66  | 16.01  | 16.60   |            |          |
| 20+15                                                           | 1                 | 99        | 1       | 0         |        | 19.22  | 19.14  | 17.95   |            |          |
| 20+15                                                           | 100               | 0         | 75      | 0         | 64-QAM | 21.10  | 21.31  | 21.87   | 32.17      | 1.6482   |
| 20+15                                                           | 1                 | 0         | 1       | 74        |        | 15.63  | 15.77  | 16.51   |            |          |
| 20+15                                                           | 1                 | 99        | 1       | 0         |        | 15.88  | 15.63  | 14.50   |            |          |
| 15+20                                                           | 75                | 0         | 100     | 0         | QPSK   | 22.02  | 22.26  | 22.97   | 34.26      | 2.6669   |
| 15+20                                                           | 1                 | 0         | 1       | 99        |        | 15.50  | 15.65  | 16.31   |            |          |
| 15+20                                                           | 1                 | 74        | 1       | 0         |        | 23.75  | 23.96  | 23.65   |            |          |
| 15+20                                                           | 75                | 0         | 100     | 0         | 16-QAM | 21.02  | 21.31  | 21.97   | 33.47      | 2.2233   |
| 15+20                                                           | 1                 | 0         | 1       | 99        |        | 15.62  | 15.83  | 16.54   |            |          |
| 15+20                                                           | 1                 | 74        | 1       | 0         |        | 22.88  | 23.17  | 22.90   |            |          |
| 15+20                                                           | 75                | 0         | 100     | 0         | 64-QAM | 21.01  | 21.31  | 22.00   | 32.57      | 1.8072   |
| 15+20                                                           | 1                 | 0         | 1       | 99        |        | 15.54  | 15.75  | 16.40   |            |          |
| 15+20                                                           | 1                 | 74        | 1       | 0         |        | 21.83  | 21.83  | 22.27   |            |          |
| Limit                                                           | Output power < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |         |           |        |        |        |         |            |          |
|-----------------------------------------------------------------|-------------------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                        | PCC               |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                 | RB Size           | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+10                                                           | 100               | 0         | 50      | 0         | QPSK   | 21.96  | 22.32  | 22.92   | 33.22      | 2.0989   |
| 20+10                                                           | 1                 | 0         | 1       | 49        |        | 15.50  | 15.71  | 16.35   |            |          |
| 20+10                                                           | 1                 | 99        | 1       | 0         |        | 19.39  | 19.93  | 17.95   |            |          |
| 20+10                                                           | 100               | 0         | 50      | 0         | 16-QAM | 20.98  | 21.32  | 21.96   | 32.26      | 1.6827   |
| 20+10                                                           | 1                 | 0         | 1       | 49        |        | 15.56  | 15.95  | 16.51   |            |          |
| 20+10                                                           | 1                 | 99        | 1       | 0         |        | 18.66  | 19.11  | 17.19   |            |          |
| 20+10                                                           | 100               | 0         | 50      | 0         | 64-QAM | 20.98  | 21.36  | 21.61   | 31.91      | 1.5524   |
| 20+10                                                           | 1                 | 0         | 1       | 49        |        | 15.54  | 15.82  | 16.47   |            |          |
| 20+10                                                           | 1                 | 99        | 1       | 0         |        | 15.30  | 15.61  | 13.77   |            |          |
| 10+20                                                           | 50                | 0         | 100     | 0         | QPSK   | 21.91  | 22.35  | 22.88   | 33.98      | 2.5003   |
| 10+20                                                           | 1                 | 0         | 1       | 99        |        | 15.45  | 15.76  | 16.30   |            |          |
| 10+20                                                           | 1                 | 49        | 1       | 0         |        | 23.68  | 23.55  | 23.58   |            |          |
| 10+20                                                           | 50                | 0         | 100     | 0         | 16-QAM | 20.97  | 21.38  | 21.88   | 33.19      | 2.0845   |
| 10+20                                                           | 1                 | 0         | 1       | 99        |        | 15.59  | 15.91  | 16.46   |            |          |
| 10+20                                                           | 1                 | 49        | 1       | 0         |        | 22.83  | 22.85  | 22.89   |            |          |
| 10+20                                                           | 50                | 0         | 100     | 0         | 64-QAM | 20.96  | 21.40  | 21.91   | 32.21      | 1.6634   |
| 10+20                                                           | 1                 | 0         | 1       | 99        |        | 15.50  | 15.86  | 16.43   |            |          |
| 10+20                                                           | 1                 | 49        | 1       | 0         |        | 21.80  | 21.70  | 21.40   |            |          |
| 20+5                                                            | 100               | 0         | 25      | 0         | QPSK   | 22.20  | 22.35  | 23.10   | 34.02      | 2.5235   |
| 20+5                                                            | 1                 | 0         | 1       | 24        |        | 15.68  | 15.78  | 16.52   |            |          |
| 20+5                                                            | 1                 | 99        | 1       | 0         |        | 23.52  | 23.59  | 23.72   |            |          |
| 20+5                                                            | 100               | 0         | 25      | 0         | 16-QAM | 21.18  | 21.35  | 22.12   | 33.37      | 2.1727   |
| 20+5                                                            | 1                 | 0         | 1       | 24        |        | 15.75  | 15.91  | 16.73   |            |          |
| 20+5                                                            | 1                 | 99        | 1       | 0         |        | 22.67  | 22.89  | 23.07   |            |          |
| 20+5                                                            | 100               | 0         | 25      | 0         | 64-QAM | 21.19  | 21.37  | 21.53   | 32.07      | 1.6106   |
| 20+5                                                            | 1                 | 0         | 1       | 24        |        | 15.73  | 15.87  | 16.64   |            |          |
| 20+5                                                            | 1                 | 99        | 1       | 0         |        | 21.58  | 21.77  | 20.17   |            |          |
| Limit                                                           | Output power < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |           |         |           |        |        |        |         |            |          |
|-----------------------------------------------------------------|-------------------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                        | PCC               |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                 | RB Size           | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 5+20                                                            | 25                | 0         | 100     | 0         | QPSK   | 22.20  | 22.35  | 23.18   | 34.20      | 2.6303   |
| 5+20                                                            | 1                 | 0         | 1       | 99        |        | 15.67  | 15.71  | 17.09   |            |          |
| 5+20                                                            | 1                 | 24        | 1       | 0         |        | 23.70  | 23.81  | 23.90   |            |          |
| 5+20                                                            | 25                | 0         | 100     | 0         | 16-QAM | 21.21  | 21.33  | 22.19   | 33.63      | 2.3067   |
| 5+20                                                            | 1                 | 0         | 1       | 99        |        | 15.77  | 15.90  | 16.74   |            |          |
| 5+20                                                            | 1                 | 24        | 1       | 0         |        | 23.16  | 23.33  | 23.21   |            |          |
| 5+20                                                            | 25                | 0         | 100     | 0         | 64-QAM | 21.20  | 21.35  | 22.23   | 32.55      | 1.7989   |
| 5+20                                                            | 1                 | 0         | 1       | 99        |        | 15.73  | 15.80  | 17.00   |            |          |
| 5+20                                                            | 1                 | 24        | 1       | 0         |        | 22.15  | 22.25  | 21.55   |            |          |
| 15+10                                                           | 75                | 0         | 50      | 0         | QPSK   | 21.92  | 22.33  | 22.90   | 34.18      | 2.6182   |
| 15+10                                                           | 1                 | 0         | 1       | 49        |        | 15.44  | 15.72  | 16.31   |            |          |
| 15+10                                                           | 1                 | 74        | 1       | 0         |        | 23.73  | 23.88  | 23.59   |            |          |
| 15+10                                                           | 75                | 0         | 50      | 0         | 16-QAM | 20.93  | 21.33  | 21.92   | 33.56      | 2.2699   |
| 15+10                                                           | 1                 | 0         | 1       | 49        |        | 15.53  | 15.93  | 16.53   |            |          |
| 15+10                                                           | 1                 | 74        | 1       | 0         |        | 22.83  | 23.26  | 22.81   |            |          |
| 15+10                                                           | 75                | 0         | 50      | 0         | 64-QAM | 20.94  | 21.37  | 21.76   | 32.55      | 1.7989   |
| 15+10                                                           | 1                 | 0         | 1       | 49        |        | 15.49  | 15.85  | 16.46   |            |          |
| 15+10                                                           | 1                 | 74        | 1       | 0         |        | 21.85  | 22.25  | 20.45   |            |          |
| 10+15                                                           | 50                | 0         | 75      | 0         | QPSK   | 21.87  | 22.33  | 22.70   | 34.13      | 2.5882   |
| 10+15                                                           | 1                 | 0         | 1       | 74        |        | 15.37  | 15.73  | 16.09   |            |          |
| 10+15                                                           | 1                 | 49        | 1       | 0         |        | 23.63  | 23.83  | 23.32   |            |          |
| 10+15                                                           | 50                | 0         | 75      | 0         | 16-QAM | 20.88  | 21.31  | 21.64   | 33.59      | 2.2856   |
| 10+15                                                           | 1                 | 0         | 1       | 74        |        | 15.49  | 15.85  | 16.41   |            |          |
| 10+15                                                           | 1                 | 49        | 1       | 0         |        | 22.80  | 23.29  | 22.63   |            |          |
| 10+15                                                           | 50                | 0         | 75      | 0         | 64-QAM | 20.89  | 21.34  | 21.72   | 32.41      | 1.7418   |
| 10+15                                                           | 1                 | 0         | 1       | 74        |        | 15.44  | 15.83  | 16.25   |            |          |
| 10+15                                                           | 1                 | 49        | 1       | 0         |        | 21.75  | 22.11  | 22.09   |            |          |
| Limit                                                           | Output power < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 10.3 dB) |                   |    |    |    |        |        |       |       |       |        |
|-----------------------------------------------------------------|-------------------|----|----|----|--------|--------|-------|-------|-------|--------|
| 15+15                                                           | 75                | 0  | 75 | 0  | QPSK   | 21.98  | 22.32 | 22.95 | 34.22 | 2.6424 |
| 15+15                                                           | 1                 | 0  | 1  | 74 |        | 15.46  | 15.72 | 16.33 |       |        |
| 15+15                                                           | 1                 | 74 | 1  | 0  |        | 23.65  | 23.92 | 23.63 |       |        |
| 15+15                                                           | 75                | 0  | 75 | 0  | 16-QAM | 20.99  | 21.39 | 21.94 | 33.56 | 2.2699 |
| 15+15                                                           | 1                 | 0  | 1  | 74 |        | 15.61  | 15.91 | 16.55 |       |        |
| 15+15                                                           | 1                 | 74 | 1  | 0  |        | 22.82  | 23.26 | 22.89 |       |        |
| 15+15                                                           | 75                | 0  | 75 | 0  | 64-QAM | 20.98  | 21.37 | 21.74 | 32.50 | 1.7783 |
| 15+15                                                           | 1                 | 0  | 1  | 74 |        | 15.49  | 15.85 | 16.53 |       |        |
| 15+15                                                           | 1                 | 74 | 1  | 0  |        | 21.78  | 22.20 | 20.87 |       |        |
| Limit                                                           | Output power < 2W |    |    |    |        | Result |       |       | Pass  |        |



| LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 2.4 dB) |          |           |         |           |        |        |        |         |           |         |
|---------------------------------------------------------------|----------|-----------|---------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                      | PCC      |           | SCC     |           | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
|                                                               | RB Size  | RB Offset | RB Size | RB Offset |        |        |        |         |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | QPSK   | 21.82  | 21.88  | 21.44   | 24.15     | 0.2600  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 12.78  | 12.59  | 12.77   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 23.90  | 23.71  | 23.79   |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | 16-QAM | 20.89  | 20.87  | 20.86   | 23.53     | 0.2254  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 13.36  | 13.15  | 13.25   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 23.28  | 23.18  | 23.13   |           |         |
| 10+10                                                         | 50       | 0         | 50      | 0         | 64-QAM | 20.16  | 20.14  | 20.06   | 21.5      | 0.1413  |
| 10+10                                                         | 1        | 0         | 1       | 49        |        | 13.09  | 13.00  | 13.11   |           |         |
| 10+10                                                         | 1        | 49        | 1       | 0         |        | 20.41  | 21.25  | 20.98   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | QPSK   | 22.21  | 22.26  | 21.47   | 24.13     | 0.2588  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 13.37  | 13.22  | 13.61   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 23.84  | 23.88  | 22.54   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | 16-QAM | 21.29  | 21.29  | 21.02   | 23.84     | 0.2421  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 13.78  | 13.78  | 13.79   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 23.24  | 23.59  | 22.11   |           |         |
| 10+5                                                          | 50       | 0         | 25      | 0         | 64-QAM | 20.33  | 20.26  | 20.02   | 21.74     | 0.1493  |
| 10+5                                                          | 1        | 0         | 1       | 24        |        | 13.77  | 13.56  | 13.75   |           |         |
| 10+5                                                          | 1        | 49        | 1       | 0         |        | 20.31  | 21.49  | 19.19   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | QPSK   | 22.15  | 22.21  | 22.02   | 24.1      | 0.2570  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 13.23  | 13.14  | 13.21   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 23.81  | 23.85  | 23.83   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | 16-QAM | 21.16  | 21.31  | 21.23   | 23.93     | 0.2472  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 13.79  | 13.66  | 13.63   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 23.33  | 23.68  | 23.59   |           |         |
| 5+10                                                          | 25       | 0         | 50      | 0         | 64-QAM | 20.22  | 20.24  | 20.43   | 21.28     | 0.1343  |
| 5+10                                                          | 1        | 0         | 1       | 49        |        | 13.52  | 13.51  | 13.58   |           |         |
| 5+10                                                          | 1        | 24        | 1       | 0         |        | 20.31  | 20.73  | 21.03   |           |         |
| Limit                                                         | ERP < 7W |           |         |           |        | Result |        |         | Pass      |         |



| LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 10+10                                                          | 50        | 0         | 50      | 0         | QPSK   | 18.50  | 19.03  | 19.15   | 29.97      | 0.9931   |
| 10+10                                                          | 1         | 0         | 1       | 49        |        | 10.12  | 10.55  | 10.55   |            |          |
| 10+10                                                          | 1         | 49        | 1       | 0         |        | 20.65  | 20.99  | 21.47   |            |          |
| 10+10                                                          | 50        | 0         | 50      | 0         | 16-QAM | 17.65  | 18.13  | 18.15   | 29.11      | 0.8147   |
| 10+10                                                          | 1         | 0         | 1       | 49        |        | 10.66  | 11.03  | 11.04   |            |          |
| 10+10                                                          | 1         | 49        | 1       | 0         |        | 20.14  | 20.42  | 20.61   |            |          |
| 10+10                                                          | 50        | 0         | 50      | 0         | 64-QAM | 17.70  | 18.08  | 18.15   | 27.89      | 0.6152   |
| 10+10                                                          | 1         | 0         | 1       | 49        |        | 10.67  | 10.95  | 10.95   |            |          |
| 10+10                                                          | 1         | 49        | 1       | 0         |        | 18.57  | 19.29  | 19.39   |            |          |
| 15+5                                                           | 75        | 0         | 25      | 0         | QPSK   | 18.60  | 18.55  | 18.52   | 29.05      | 0.8035   |
| 15+5                                                           | 1         | 0         | 1       | 24        |        | 10.01  | 10.01  | 10.03   |            |          |
| 15+5                                                           | 1         | 74        | 1       | 0         |        | 20.54  | 20.55  | 20.53   |            |          |
| 15+5                                                           | 75        | 0         | 25      | 0         | 16-QAM | 17.58  | 17.52  | 17.52   | 28.57      | 0.7194   |
| 15+5                                                           | 1         | 0         | 1       | 24        |        | 10.52  | 10.66  | 10.59   |            |          |
| 15+5                                                           | 1         | 74        | 1       | 0         |        | 20.05  | 20.07  | 20.02   |            |          |
| 15+5                                                           | 75        | 0         | 25      | 0         | 64-QAM | 17.60  | 17.57  | 17.56   | 27.38      | 0.5470   |
| 15+5                                                           | 1         | 0         | 1       | 24        |        | 10.52  | 10.35  | 10.44   |            |          |
| 15+5                                                           | 1         | 74        | 1       | 0         |        | 18.82  | 18.88  | 18.85   |            |          |
| 5+15                                                           | 25        | 0         | 75      | 0         | QPSK   | 18.58  | 18.72  | 18.70   | 29.17      | 0.8260   |
| 5+15                                                           | 1         | 0         | 1       | 74        |        | 10.16  | 10.04  | 10.18   |            |          |
| 5+15                                                           | 1         | 24        | 1       | 0         |        | 20.62  | 20.54  | 20.67   |            |          |
| 5+15                                                           | 25        | 0         | 75      | 0         | 16-QAM | 17.68  | 17.72  | 17.72   | 28.65      | 0.7328   |
| 5+15                                                           | 1         | 0         | 1       | 74        |        | 10.66  | 10.56  | 10.61   |            |          |
| 5+15                                                           | 1         | 24        | 1       | 0         |        | 20.15  | 20.02  | 20.08   |            |          |
| 5+15                                                           | 25        | 0         | 75      | 0         | 64-QAM | 17.75  | 17.67  | 17.72   | 28.03      | 0.6353   |
| 5+15                                                           | 1         | 0         | 1       | 74        |        | 10.58  | 10.49  | 10.52   |            |          |
| 5+15                                                           | 1         | 24        | 1       | 0         |        | 18.94  | 19.53  | 18.71   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 10+5                                                           | 50        | 0         | 25      | 0         | QPSK   | 19.58  | 20.02  | 20.15   | 29.95      | 0.9886   |
| 10+5                                                           | 1         | 0         | 1       | 24        |        | 11.66  | 12.04  | 12.15   |            |          |
| 10+5                                                           | 1         | 49        | 1       | 0         |        | 21.45  | 21.45  | 21.45   |            |          |
| 10+5                                                           | 50        | 0         | 25      | 0         | 16-QAM | 18.66  | 19.05  | 19.15   | 29.95      | 0.9886   |
| 10+5                                                           | 1         | 0         | 1       | 24        |        | 12.10  | 12.49  | 12.73   |            |          |
| 10+5                                                           | 1         | 49        | 1       | 0         |        | 21.06  | 21.45  | 21.44   |            |          |
| 10+5                                                           | 50        | 0         | 25      | 0         | 64-QAM | 18.73  | 19.13  | 19.16   | 28.88      | 0.7727   |
| 10+5                                                           | 1         | 0         | 1       | 24        |        | 12.09  | 12.48  | 12.58   |            |          |
| 10+5                                                           | 1         | 49        | 1       | 0         |        | 20.02  | 20.38  | 20.32   |            |          |
| 5+10                                                           | 25        | 0         | 50      | 0         | QPSK   | 20.21  | 20.14  | 20.08   | 29.96      | 0.9908   |
| 5+10                                                           | 1         | 0         | 1       | 49        |        | 12.11  | 12.04  | 11.81   |            |          |
| 5+10                                                           | 1         | 24        | 1       | 0         |        | 21.46  | 21.46  | 21.38   |            |          |
| 5+10                                                           | 25        | 0         | 50      | 0         | 16-QAM | 19.16  | 19.15  | 19.16   | 29.99      | 0.9977   |
| 5+10                                                           | 1         | 0         | 1       | 49        |        | 12.53  | 12.56  | 12.20   |            |          |
| 5+10                                                           | 1         | 24        | 1       | 0         |        | 21.49  | 21.49  | 21.33   |            |          |
| 5+10                                                           | 25        | 0         | 50      | 0         | 64-QAM | 19.22  | 20.09  | 19.21   | 28.96      | 0.7870   |
| 5+10                                                           | 1         | 0         | 1       | 49        |        | 12.46  | 12.45  | 12.48   |            |          |
| 5+10                                                           | 1         | 24        | 1       | 0         |        | 20.46  | 20.42  | 20.32   |            |          |
| 5+5                                                            | 25        | 0         | 25      | 0         | QPSK   | 19.60  | 19.99  | 19.96   | 29.95      | 0.9886   |
| 5+5                                                            | 1         | 0         | 1       | 24        |        | 11.55  | 11.96  | 12.07   |            |          |
| 5+5                                                            | 1         | 24        | 1       | 0         |        | 21.40  | 21.41  | 21.45   |            |          |
| 5+5                                                            | 25        | 0         | 25      | 0         | 16-QAM | 18.66  | 19.01  | 19.15   | 29.82      | 0.9594   |
| 5+5                                                            | 1         | 0         | 1       | 24        |        | 12.00  | 12.52  | 12.68   |            |          |
| 5+5                                                            | 1         | 24        | 1       | 0         |        | 20.90  | 21.31  | 21.32   |            |          |
| 5+5                                                            | 25        | 0         | 25      | 0         | 64-QAM | 18.64  | 18.94  | 19.11   | 28.83      | 0.7638   |
| 5+5                                                            | 1         | 0         | 1       | 24        |        | 11.90  | 12.36  | 12.39   |            |          |
| 5+5                                                            | 1         | 24        | 1       | 0         |        | 19.93  | 20.33  | 20.26   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | QPSK   | 18.84  | 18.95  | 19.07   | 29.90      | 0.9772   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 12.56  | 12.56  | 12.50   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 20.55  | 20.81  | 21.40   |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | 16-QAM | 17.81  | 18.03  | 18.03   | 28.89      | 0.7745   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 12.95  | 13.13  | 13.09   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 20.07  | 20.38  | 20.39   |            |          |
| 20+20                                                          | 100       | 0         | 100     | 0         | 64-QAM | 17.82  | 18.07  | 18.07   | 27.81      | 0.6039   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 12.80  | 12.98  | 12.87   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 18.95  | 19.29  | 19.31   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | QPSK   | 18.81  | 19.33  | 19.18   | 27.83      | 0.6067   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 12.65  | 12.94  | 12.82   |            |          |
| 20+15                                                          | 1         | 74        | 1       | 0         |        | 17.49  | 17.26  | 17.15   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | 16-QAM | 17.85  | 18.38  | 18.27   | 26.88      | 0.4875   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 13.02  | 13.16  | 13.44   |            |          |
| 20+15                                                          | 1         | 74        | 1       | 0         |        | 17.05  | 16.88  | 16.67   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | 64-QAM | 17.93  | 18.34  | 18.31   | 26.84      | 0.4831   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 12.84  | 13.04  | 13.18   |            |          |
| 20+15                                                          | 1         | 74        | 1       | 0         |        | 13.70  | 13.73  | 13.37   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | QPSK   | 19.35  | 19.59  | 19.48   | 29.73      | 0.9397   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 12.99  | 13.09  | 12.91   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 21.23  | 21.21  | 21.15   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | 16-QAM | 18.44  | 18.58  | 18.52   | 29.31      | 0.8531   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 13.26  | 13.59  | 13.61   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 20.78  | 20.81  | 20.72   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | 64-QAM | 18.35  | 19.52  | 18.60   | 29.78      | 0.9506   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 13.25  | 13.35  | 13.28   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 19.59  | 19.62  | 21.28   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | QPSK   | 19.09  | 19.41  | 19.32   | 27.91      | 0.6180   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 12.73  | 12.92  | 12.99   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 17.34  | 17.11  | 16.53   |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | 16-QAM | 18.08  | 18.37  | 18.28   | 26.87      | 0.4864   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 13.26  | 13.41  | 13.35   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 16.69  | 16.71  | 16.04   |            |          |
| 20+10                                                          | 100       | 0         | 50      | 0         | 64-QAM | 18.09  | 18.39  | 18.31   | 26.89      | 0.4887   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 13.07  | 13.29  | 12.84   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 13.57  | 13.49  | 12.92   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | QPSK   | 19.36  | 19.48  | 19.48   | 29.83      | 0.9616   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 12.98  | 13.01  | 12.88   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 21.33  | 21.31  | 21.22   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | 16-QAM | 18.42  | 18.52  | 18.53   | 29.31      | 0.8531   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 13.87  | 13.54  | 13.52   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 20.81  | 20.74  | 20.77   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | 64-QAM | 18.45  | 18.52  | 18.47   | 28.29      | 0.6745   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 13.30  | 13.36  | 13.27   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 19.60  | 19.77  | 19.79   |            |          |
| 20+5                                                           | 100       | 0         | 25      | 0         | QPSK   | 18.73  | 19.35  | 19.33   | 29.85      | 0.9661   |
| 20+5                                                           | 1         | 0         | 1       | 24        |        | 12.48  | 12.74  | 12.90   |            |          |
| 20+5                                                           | 1         | 99        | 1       | 0         |        | 20.74  | 21.34  | 21.35   |            |          |
| 20+5                                                           | 100       | 0         | 25      | 0         | 16-QAM | 17.79  | 18.41  | 18.47   | 29.37      | 0.8650   |
| 20+5                                                           | 1         | 0         | 1       | 24        |        | 13.03  | 13.13  | 13.38   |            |          |
| 20+5                                                           | 1         | 99        | 1       | 0         |        | 20.27  | 20.76  | 20.87   |            |          |
| 20+5                                                           | 100       | 0         | 25      | 0         | 64-QAM | 17.83  | 18.34  | 18.46   | 28.33      | 0.6808   |
| 20+5                                                           | 1         | 0         | 1       | 24        |        | 12.85  | 13.23  | 13.20   |            |          |
| 20+5                                                           | 1         | 99        | 1       | 0         |        | 19.26  | 19.77  | 19.83   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 5+20                                                           | 25        | 0         | 100     | 0         | QPSK   | 19.01  | 18.98  | 19.11   | 29.48      | 0.8872   |
| 5+20                                                           | 1         | 0         | 1       | 99        |        | 12.56  | 12.51  | 12.51   |            |          |
| 5+20                                                           | 1         | 24        | 1       | 0         |        | 20.95  | 20.80  | 20.98   |            |          |
| 5+20                                                           | 25        | 0         | 100     | 0         | 16-QAM | 18.07  | 18.05  | 18.19   | 28.98      | 0.7907   |
| 5+20                                                           | 1         | 0         | 1       | 99        |        | 13.18  | 13.13  | 13.07   |            |          |
| 5+20                                                           | 1         | 24        | 1       | 0         |        | 20.48  | 20.36  | 20.44   |            |          |
| 5+20                                                           | 25        | 0         | 100     | 0         | 64-QAM | 18.08  | 18.10  | 18.15   | 28.02      | 0.6339   |
| 5+20                                                           | 1         | 0         | 1       | 99        |        | 13.00  | 12.87  | 12.94   |            |          |
| 5+20                                                           | 1         | 24        | 1       | 0         |        | 19.44  | 19.27  | 19.52   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = 8.5 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | QPSK   | 19.03  | 19.01  | 19.03   | 29.58      | 0.9078   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 12.45  | 12.36  | 12.42   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 20.87  | 20.79  | 21.08   |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | 16-QAM | 18.01  | 18.01  | 18.09   | 28.97      | 0.7889   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 12.72  | 13.03  | 13.03   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 20.29  | 20.32  | 20.47   |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | 64-QAM | 18.02  | 18.05  | 18.15   | 29.32      | 0.8551   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 12.72  | 12.81  | 12.78   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 19.03  | 20.82  | 19.41   |            |          |
| 10+15                                                          | 50        | 0         | 75      | 0         | QPSK   | 18.90  | 19.00  | 19.11   | 29.47      | 0.8851   |
| 10+15                                                          | 1         | 0         | 1       | 74        |        | 12.37  | 12.45  | 12.48   |            |          |
| 10+15                                                          | 1         | 49        | 1       | 0         |        | 20.81  | 20.96  | 20.97   |            |          |
| 10+15                                                          | 50        | 0         | 75      | 0         | 16-QAM | 18.07  | 18.04  | 18.14   | 28.98      | 0.7907   |
| 10+15                                                          | 1         | 0         | 1       | 74        |        | 12.94  | 12.83  | 13.11   |            |          |
| 10+15                                                          | 1         | 49        | 1       | 0         |        | 20.38  | 20.30  | 20.48   |            |          |
| 10+15                                                          | 50        | 0         | 75      | 0         | 64-QAM | 17.91  | 18.01  | 18.17   | 27.85      | 0.6095   |
| 10+15                                                          | 1         | 0         | 1       | 74        |        | 12.56  | 12.53  | 12.82   |            |          |
| 10+15                                                          | 1         | 49        | 1       | 0         |        | 19.35  | 19.18  | 19.33   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | QPSK   | 18.95  | 19.00  | 19.08   | 29.50      | 0.8913   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 12.61  | 12.44  | 12.42   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 20.84  | 20.72  | 21.00   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | 16-QAM | 18.01  | 17.96  | 18.08   | 29.23      | 0.8375   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 13.30  | 13.08  | 13.11   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 20.17  | 20.21  | 20.73   |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | 64-QAM | 18.00  | 18.05  | 18.15   | 27.87      | 0.6124   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 13.02  | 12.86  | 12.88   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 19.05  | 19.28  | 19.37   |            |          |
| Limit                                                          | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |

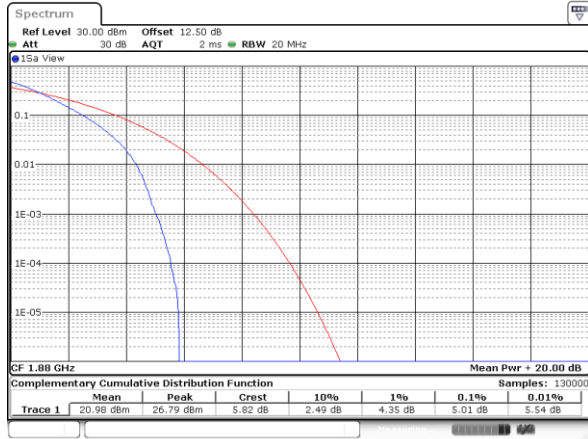
**LTE Band 2****Peak-to-Average Ratio**

| Mode      | LTE Band 2 / 20MHz |         |         |             |
|-----------|--------------------|---------|---------|-------------|
| Mod.      | QPSK               | 16QAM   | 64QAM   | Limit: 13dB |
| RB Size   | Full RB            | Full RB | Full RB | Result      |
| Middle CH | 5.01               | 5.86    | 6.58    | <b>PASS</b> |



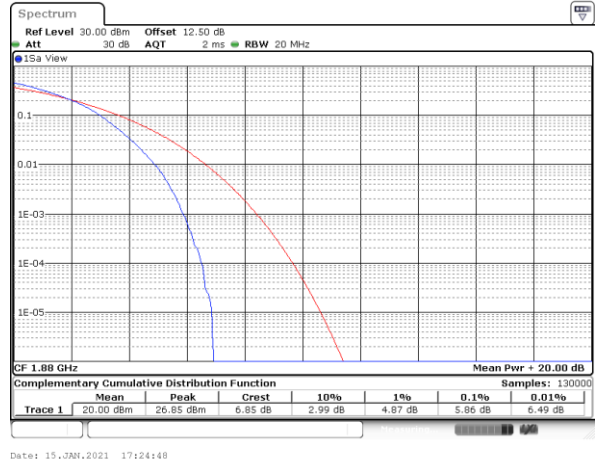
LTE Band 2 / 20MHz / QPSK

Middle Channel / Full RB



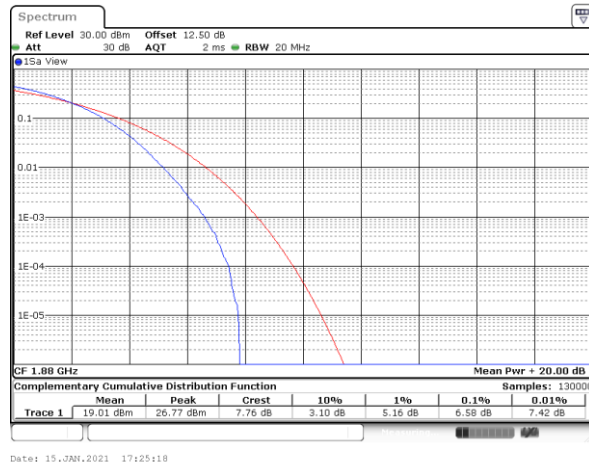
LTE Band 2 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 2 / 20MHz / 64QAM

Middle Channel / Full RB





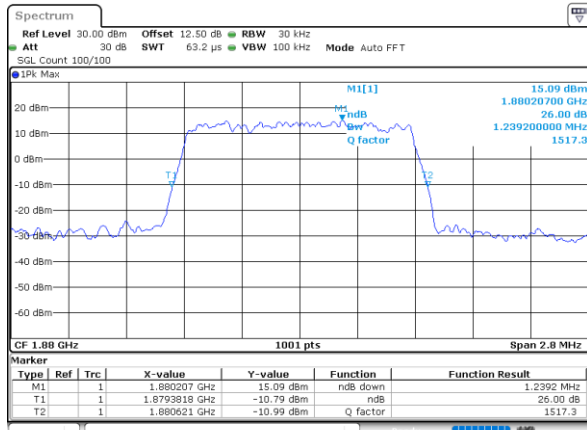
**26dB Bandwidth**

| 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 |
| Middle CH | 1.24                      | 1.21  | 2.96  | 2.98  | 4.94  | 4.88  | 9.79  | 9.71  | 14.48 | 14.45 | 18.98 | 18.78 |
| Mode      | LTE Band 2 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW        | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | 64QAM                     | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     |
| Middle CH | 1.23                      | -     | 3.02  | -     | 4.91  | -     | 9.83  | -     | 14.45 | -     | 18.74 | -     |

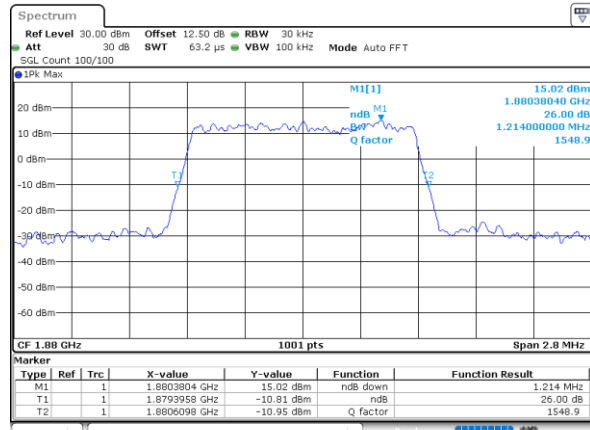


## LTE Band 2

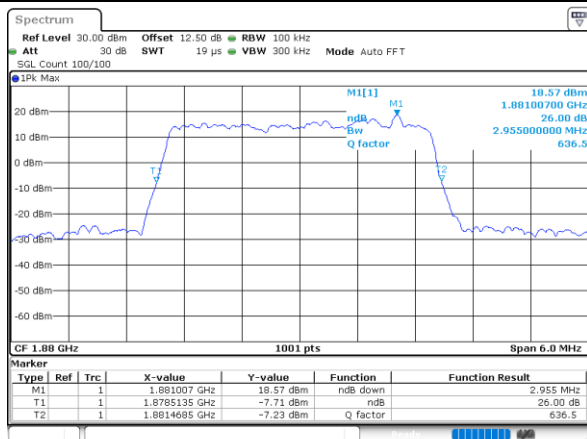
## Middle Channel / 1.4MHz / QPSK



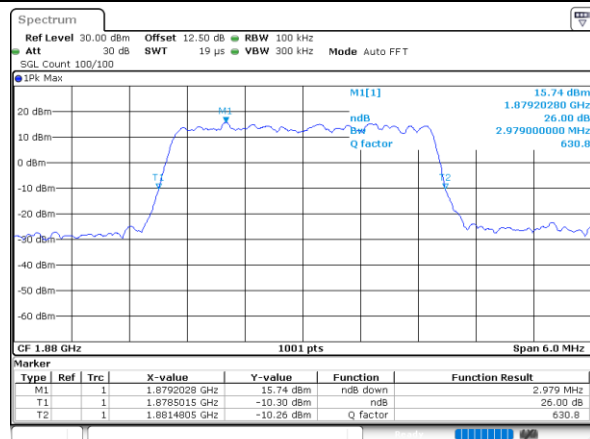
## Middle Channel / 1.4MHz / 16QAM



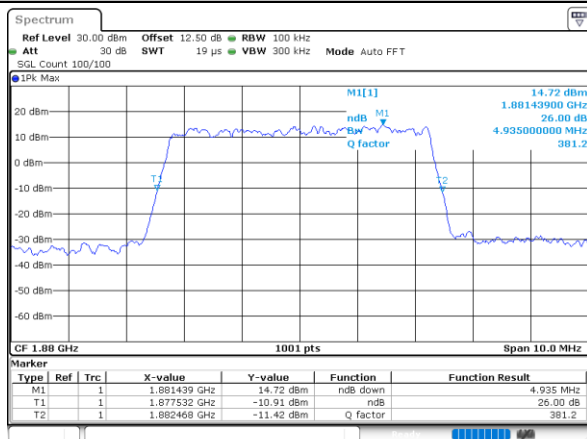
## Middle Channel / 3MHz / QPSK



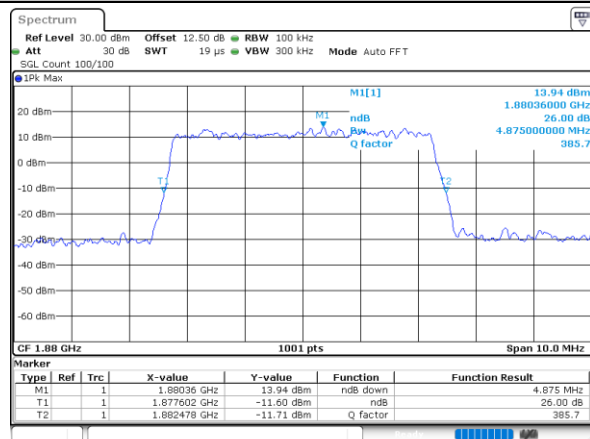
## Middle Channel / 3MHz / 16QAM



## Middle Channel / 5MHz / QPSK



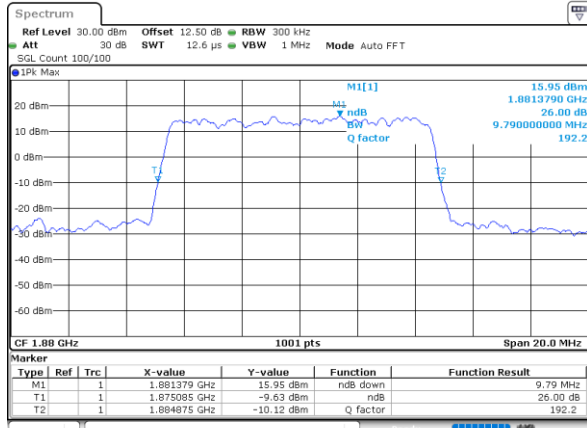
## Middle Channel / 5MHz / 16QAM





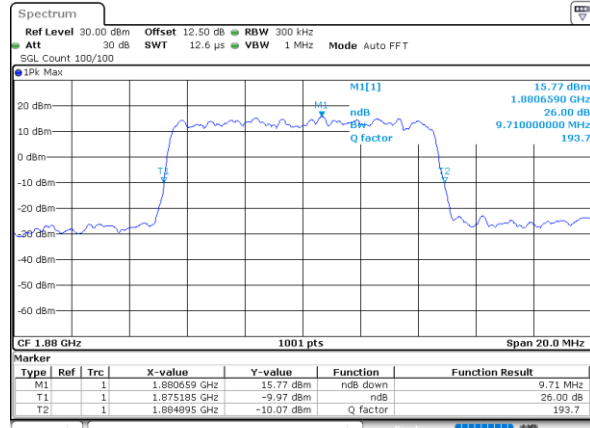
## LTE Band 2

## Middle Channel / 10MHz / QPSK



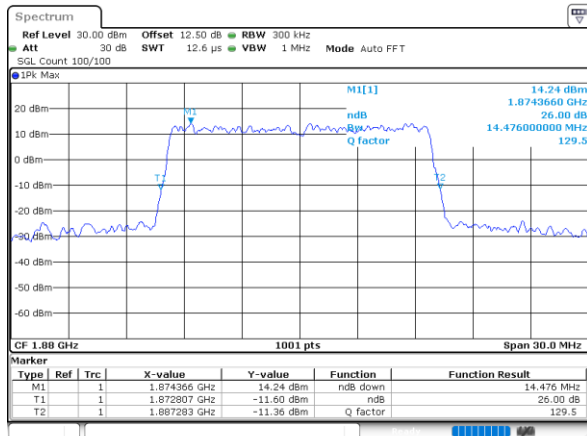
Date: 15.JAN.2021 17:04:08

## Middle Channel / 10MHz / 16QAM



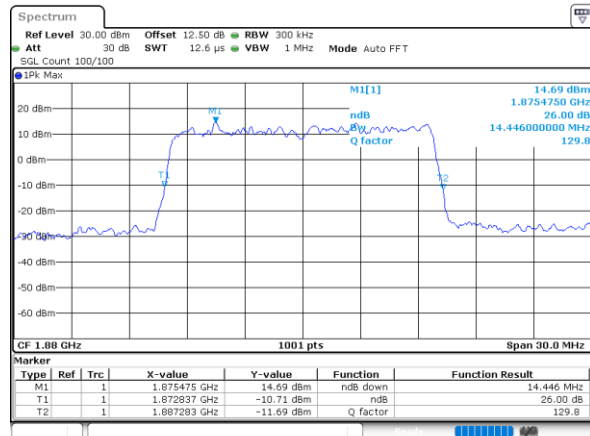
Date: 15.JAN.2021 17:04:20

## Middle Channel / 15MHz / QPSK



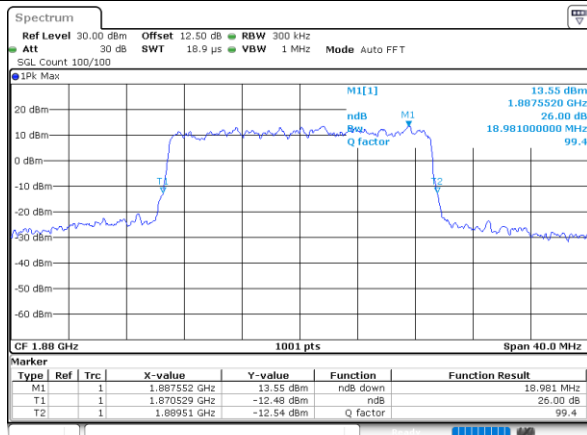
Date: 15.JAN.2021 17:09:15

## Middle Channel / 15MHz / 16QAM



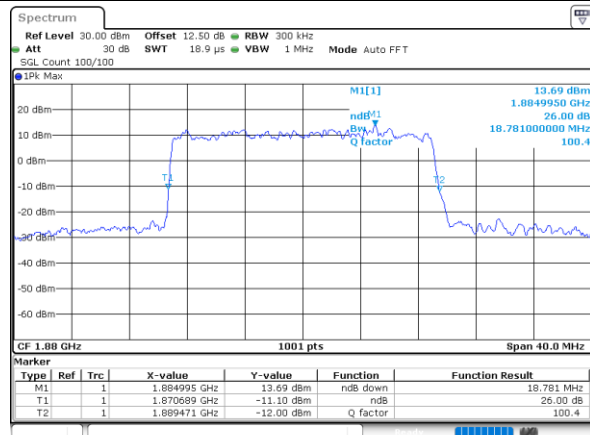
Date: 15.JAN.2021 17:09:27

## Middle Channel / 20MHz / QPSK



Date: 15.JAN.2021 17:14:22

## Middle Channel / 20MHz / 16QAM

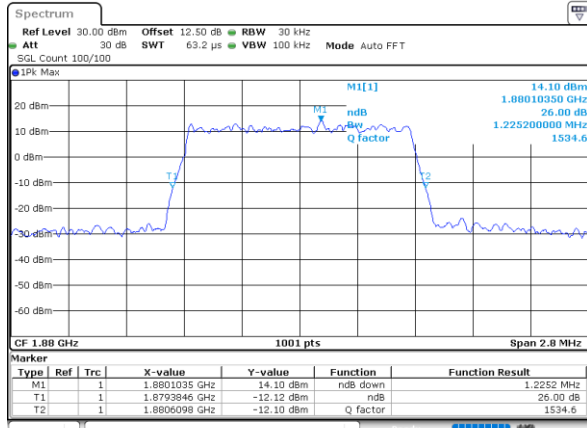


Date: 15.JAN.2021 17:14:33

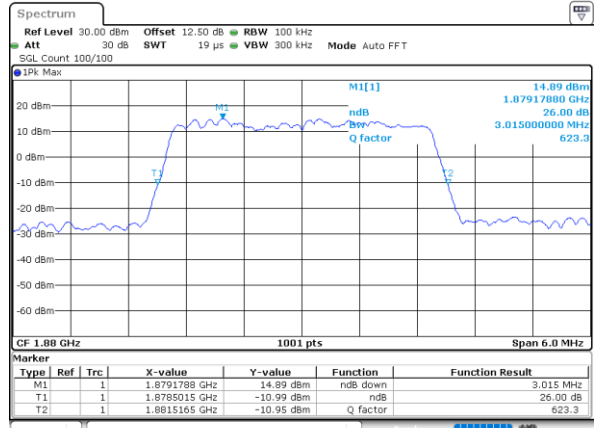


## LTE Band 2

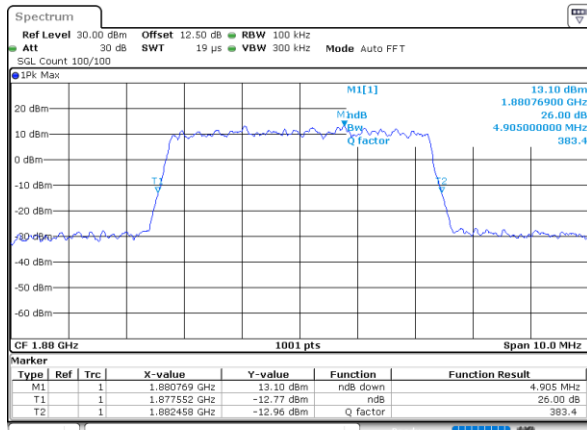
## Middle Channel / 1.4MHz / 64QAM



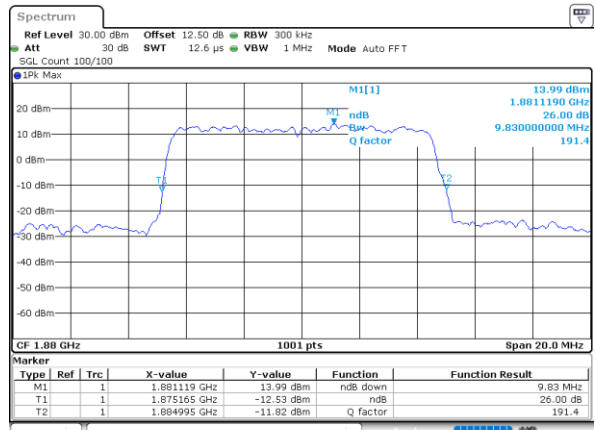
## Middle Channel / 3MHz / 64QAM



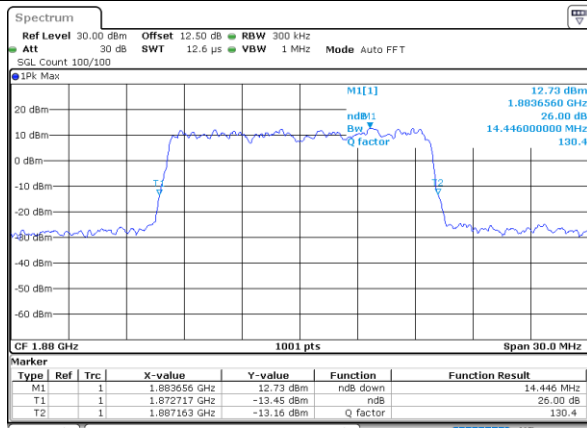
## Middle Channel / 5MHz / 64QAM



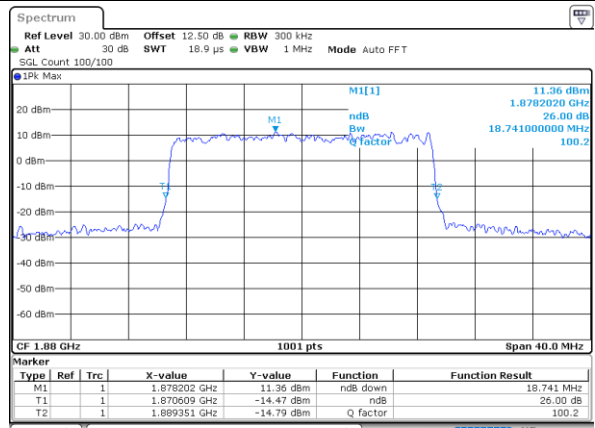
## Middle Channel / 10MHz / 64QAM



## Middle Channel / 15MHz / 64QAM



## Middle Channel / 20MHz / 64QAM



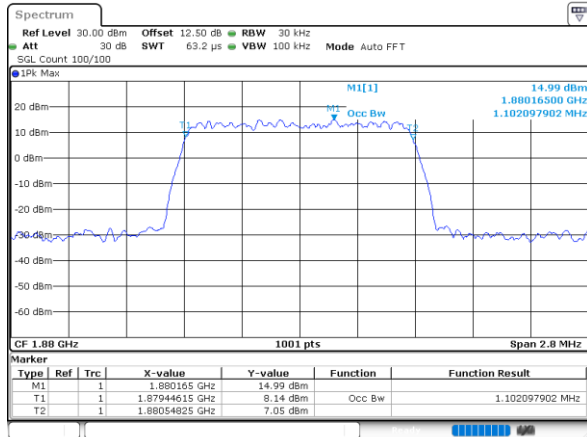
**Occupied Bandwidth**

| Mode      | LTE Band 2 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|-----------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW        | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | QPSK                     | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Middle CH | 1.10                     | 1.09  | 2.71  | 2.74  | 4.49  | 4.51  | 9.01  | 8.97  | 13.46 | 13.40 | 17.86 | 17.86 |
| Mode      | LTE Band 2 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW        | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.      | 64QAM                    | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     | 64QAM | -     |
| Middle CH | 1.10                     | -     | 2.72  | -     | 4.50  | -     | 9.01  | -     | 13.46 | -     | 17.90 | -     |

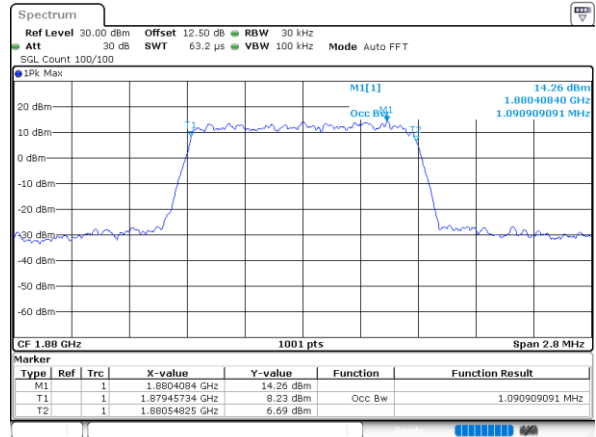


## LTE Band 2

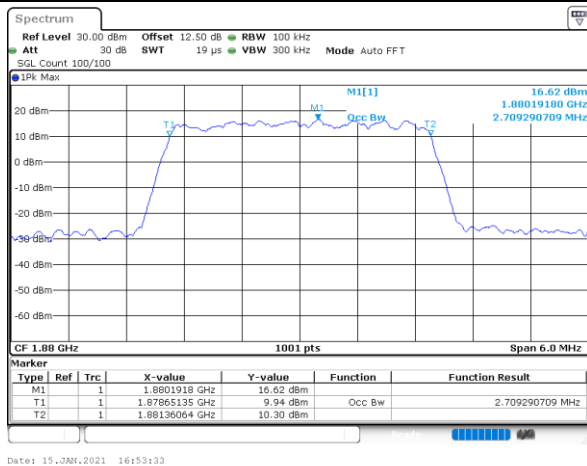
## Middle Channel / 1.4MHz / QPSK



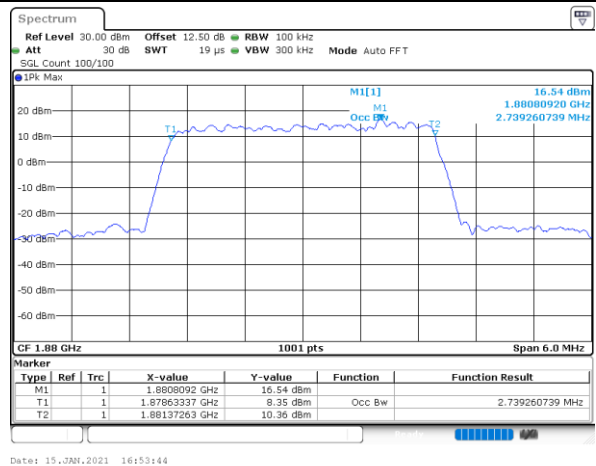
## Middle Channel / 1.4MHz / 16QAM



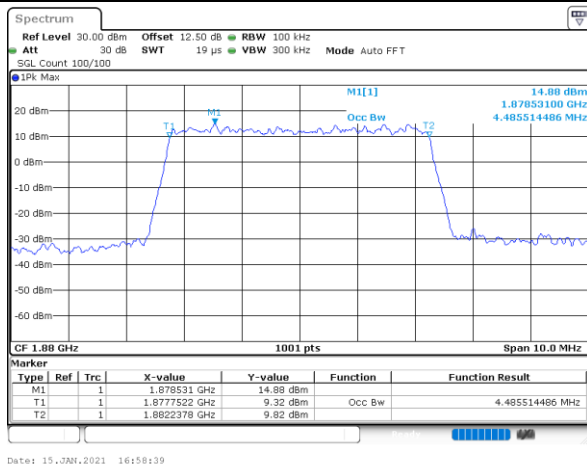
## Middle Channel / 3MHz / QPSK



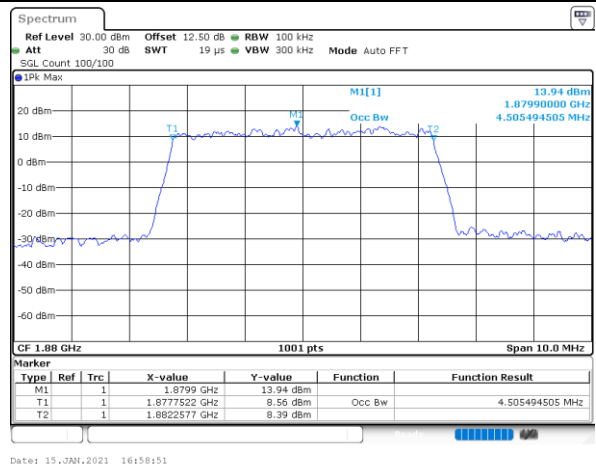
## Middle Channel / 3MHz / 16QAM



## Middle Channel / 5MHz / QPSK



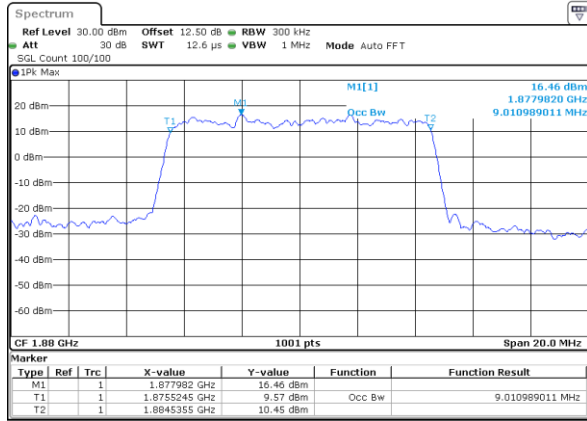
## Middle Channel / 5MHz / 16QAM





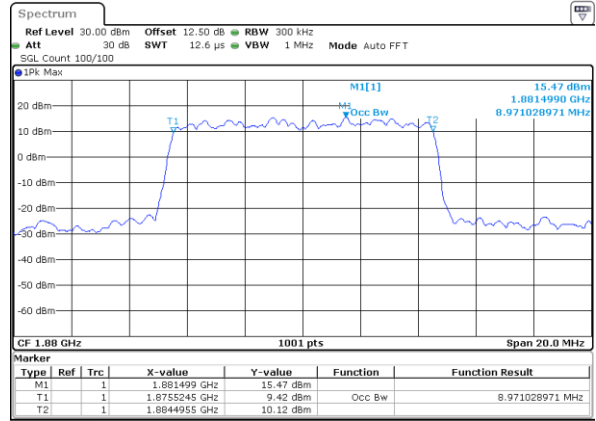
## LTE Band 2

## Middle Channel / 10MHz / QPSK



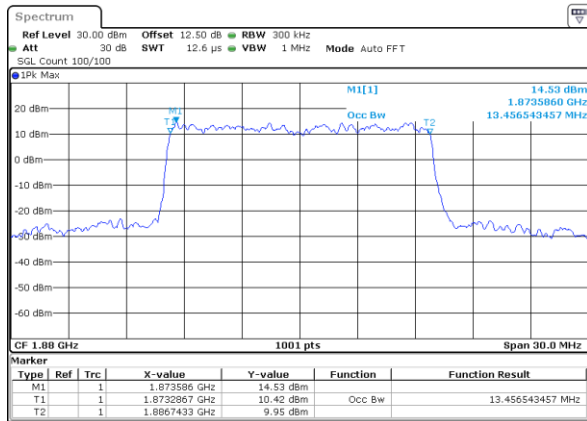
Date: 15.JAN.2021 17:03:46

## Middle Channel / 10MHz / 16QAM



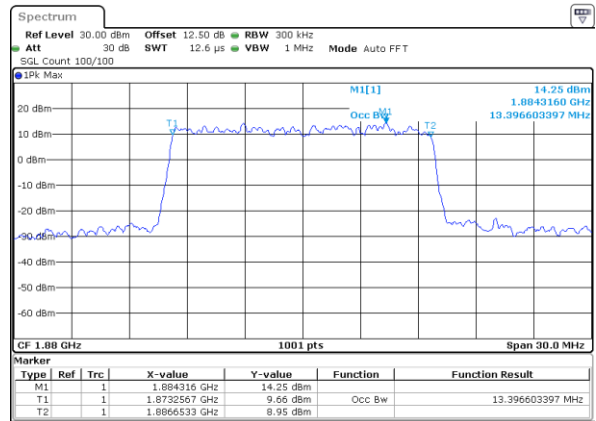
Date: 15.JAN.2021 17:03:57

## Middle Channel / 15MHz / QPSK



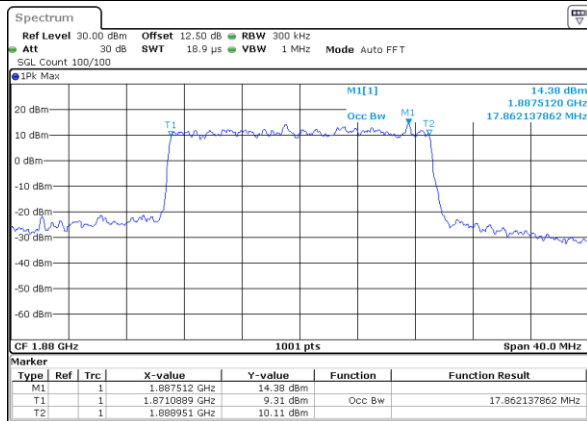
Date: 15.JAN.2021 17:08:52

## Middle Channel / 15MHz / 16QAM



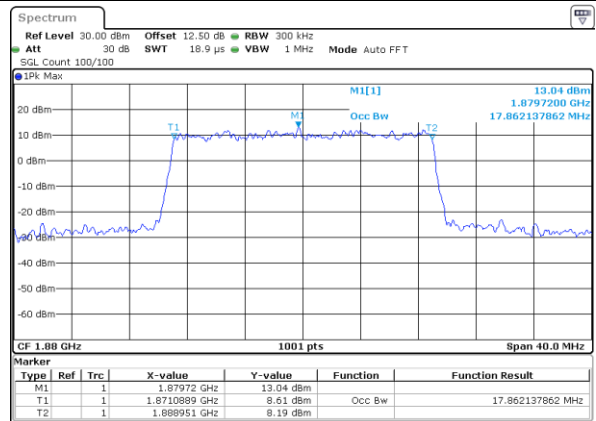
Date: 15.JAN.2021 17:09:04

## Middle Channel / 20MHz / QPSK



Date: 15.JAN.2021 17:13:59

## Middle Channel / 20MHz / 16QAM

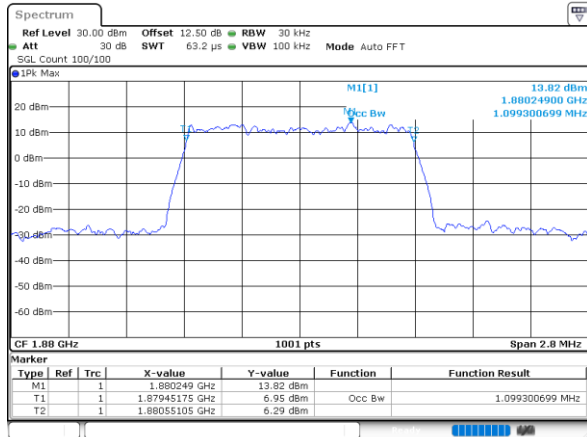


Date: 15.JAN.2021 17:14:11

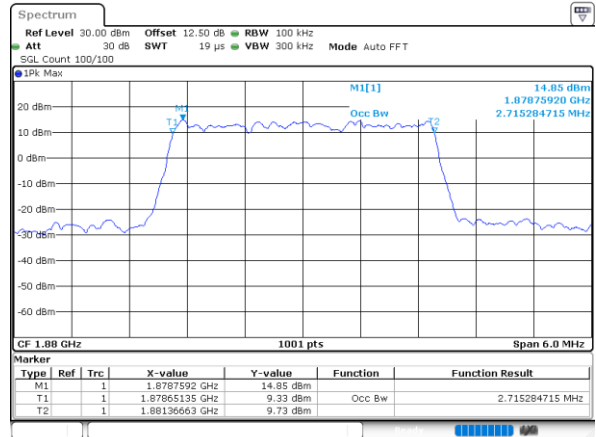


## LTE Band 2

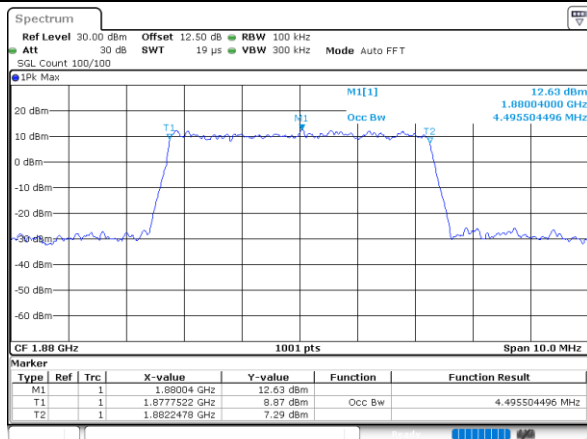
## Middle Channel / 1.4MHz / 64QAM



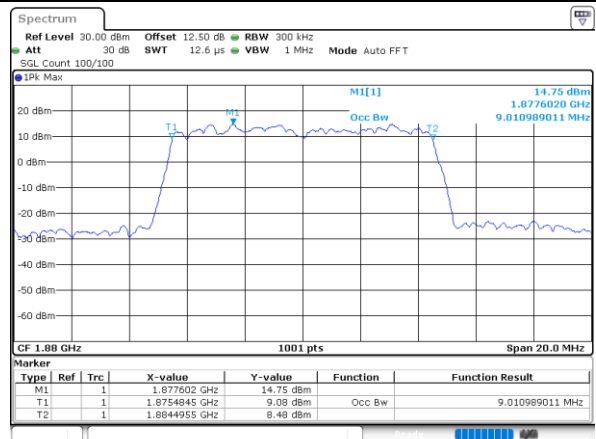
## Middle Channel / 3MHz / 64QAM



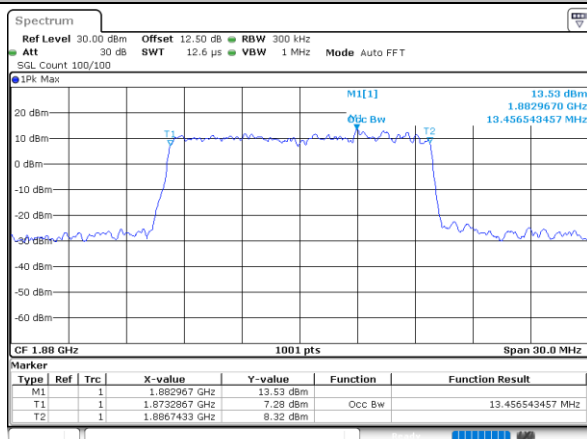
## Middle Channel / 5MHz / 64QAM



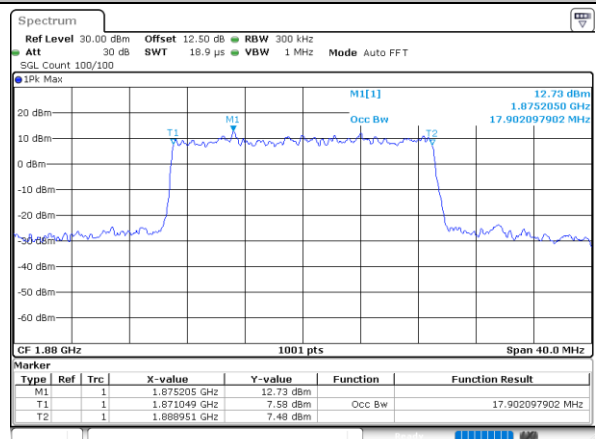
## Middle Channel / 10MHz / 64QAM

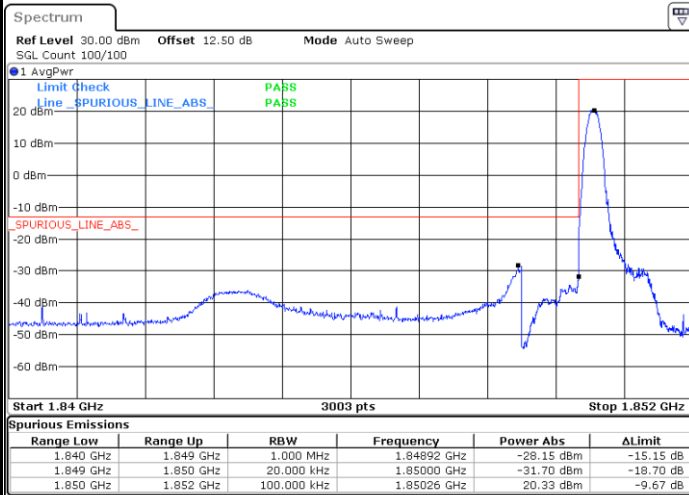
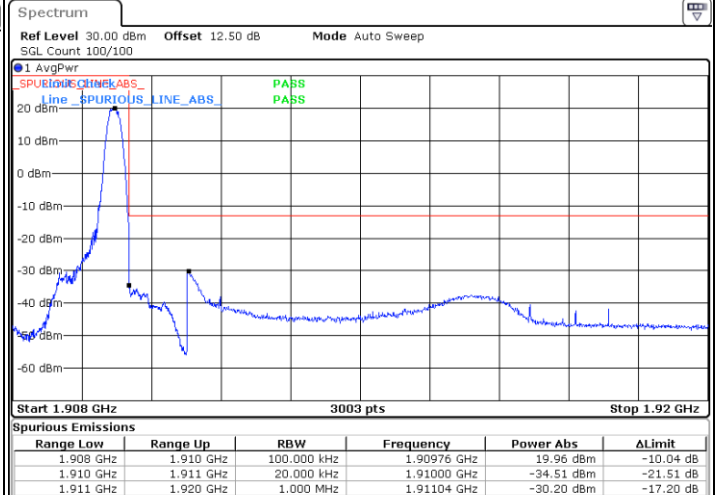
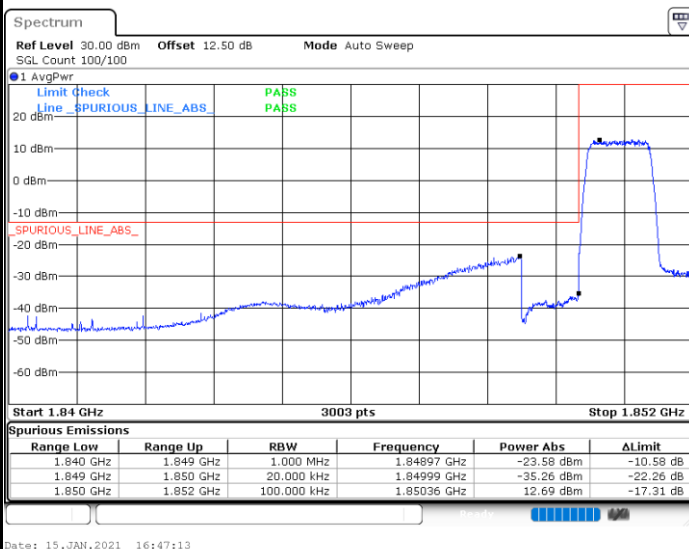
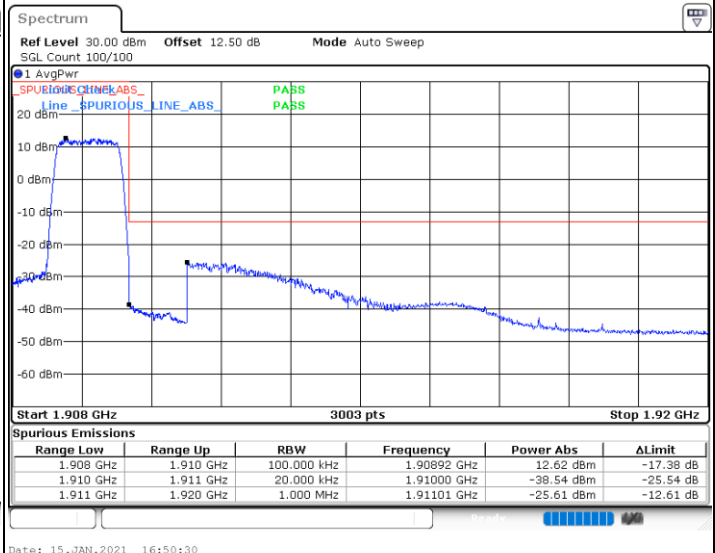


## Middle Channel / 15MHz / 64QAM



## Middle Channel / 20MHz / 64QAM

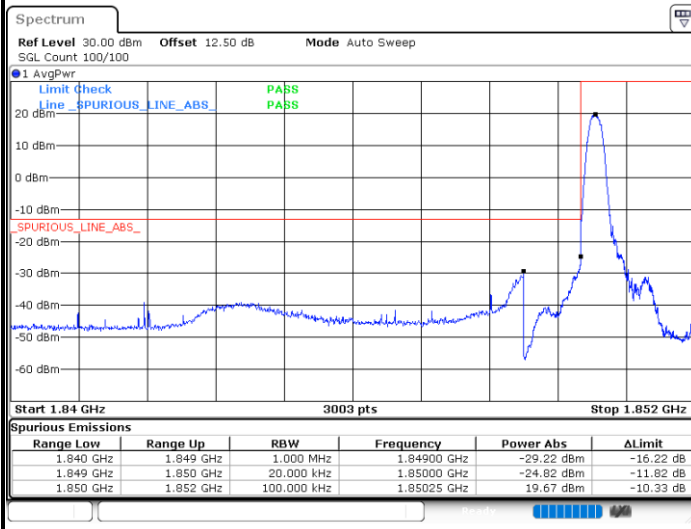


**Conducted Band Edge****LTE Band 2 / 1.4MHz / QPSK****Lowest Band Edge / 1RB****Highest Band Edge / 1RB****Lowest Band Edge / Full RB****Highest Band Edge / Full RB**

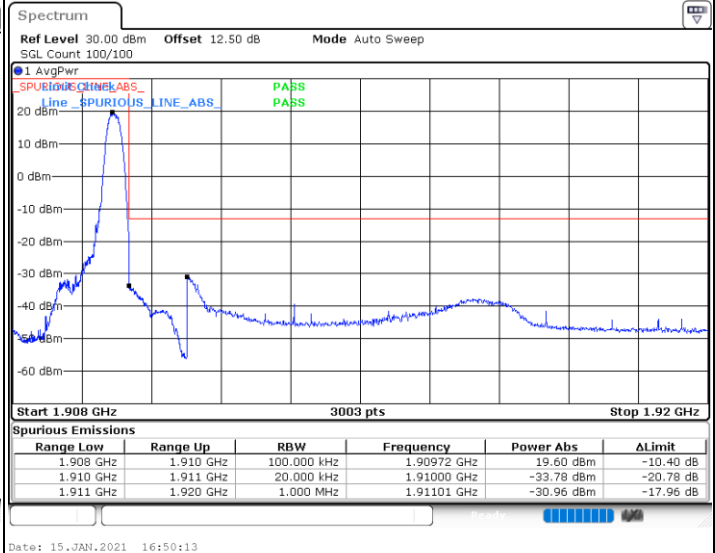


## LTE Band 2 / 1.4MHz / 16QAM

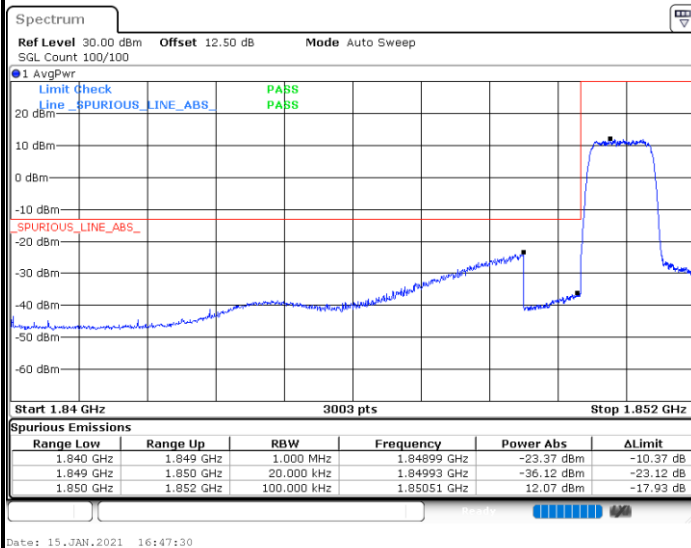
## Lowest Band Edge / 1 RB



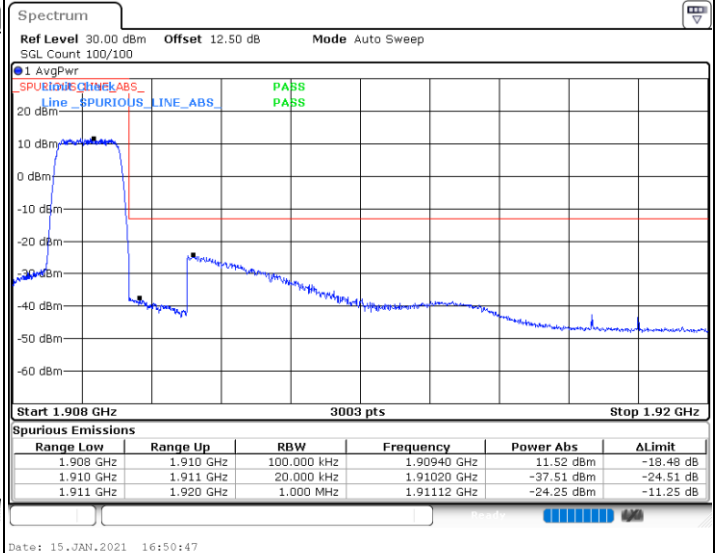
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



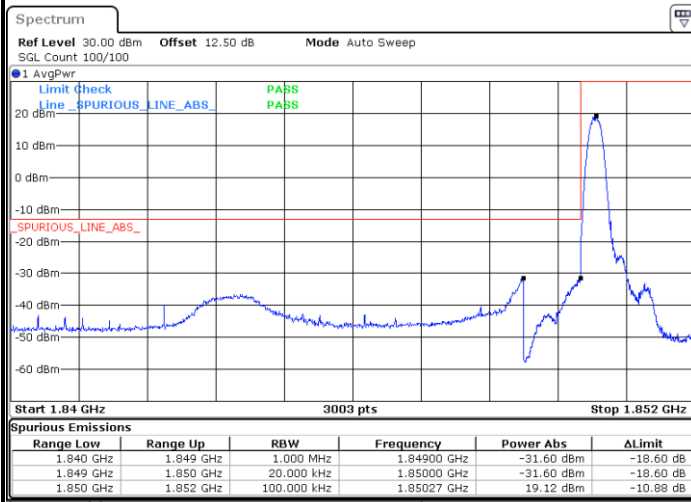
## Highest Band Edge / Full RB



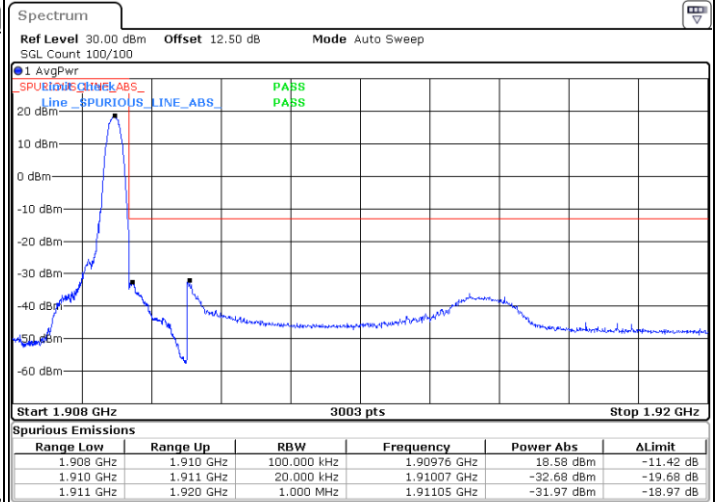


## LTE Band 2 / 1.4MHz / 64QAM

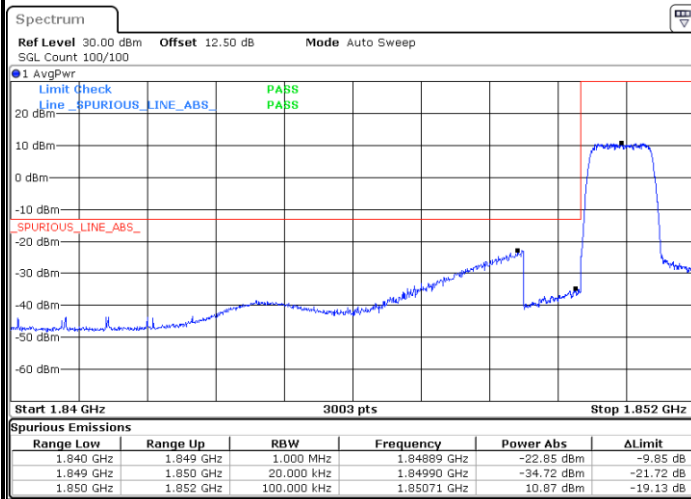
## Lowest Band Edge / 1 RB



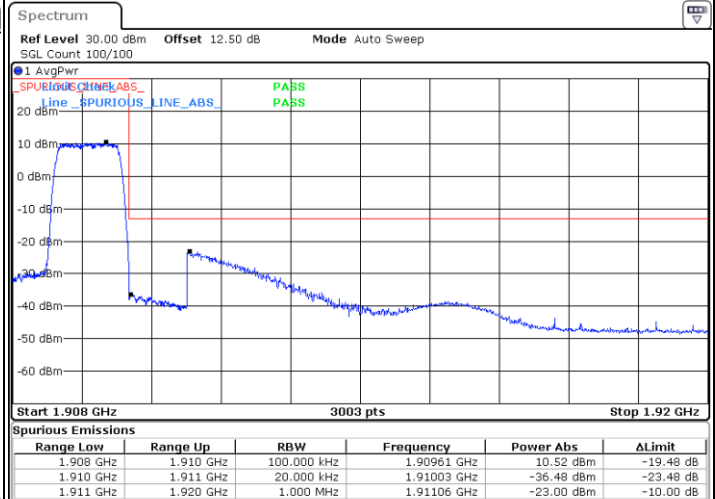
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



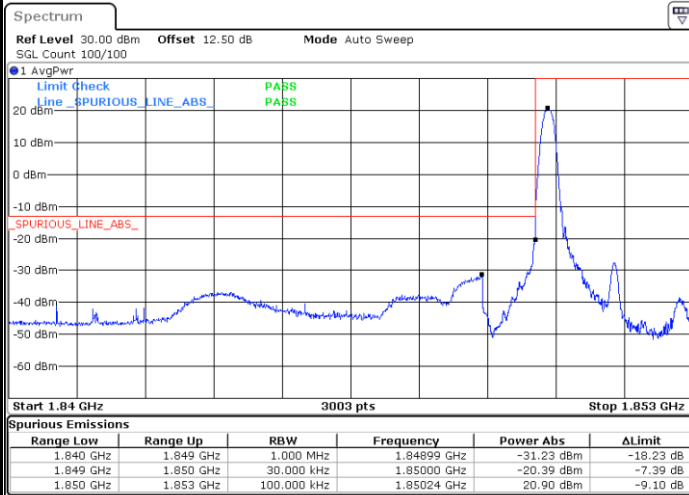
## Highest Band Edge / Full RB



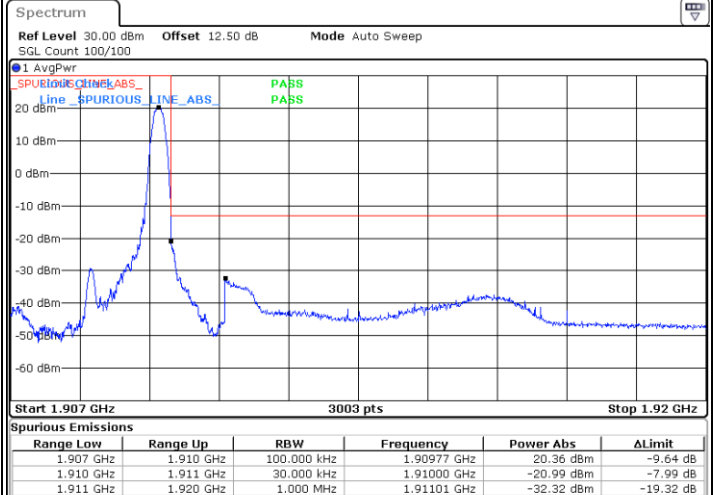


## LTE Band 2 / 3MHz / QPSK

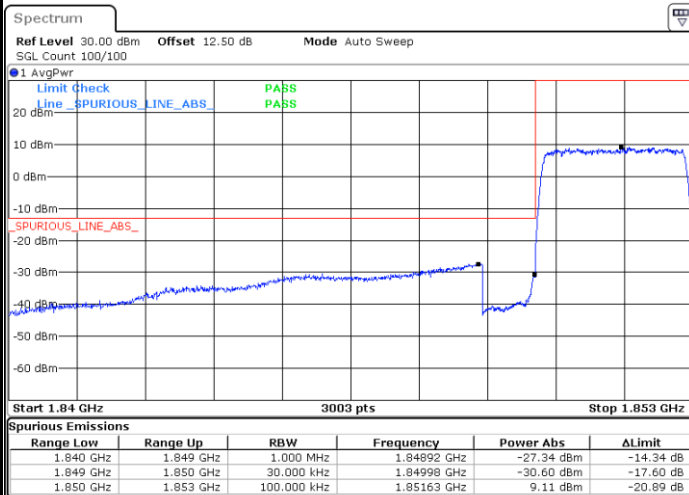
## Lowest Band Edge / 1RB



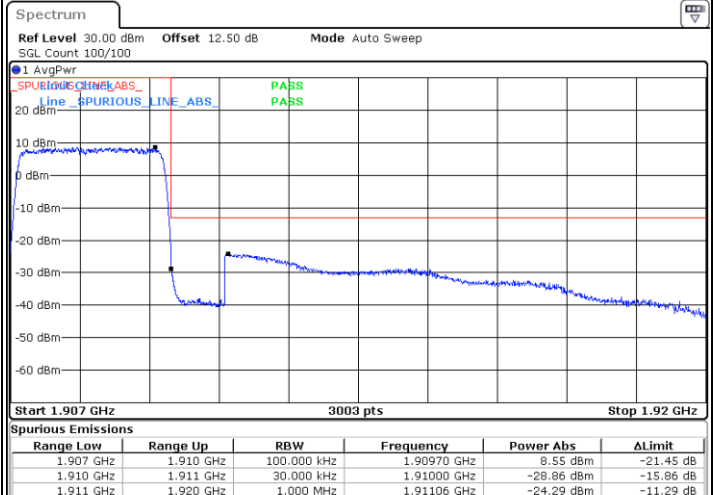
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



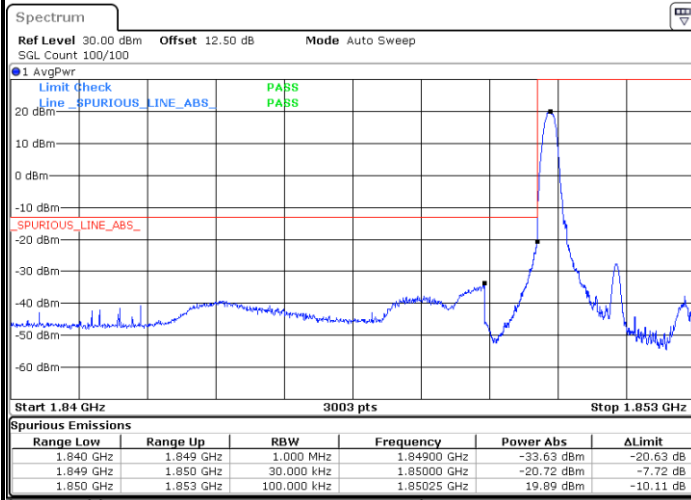
## Highest Band Edge / Full RB



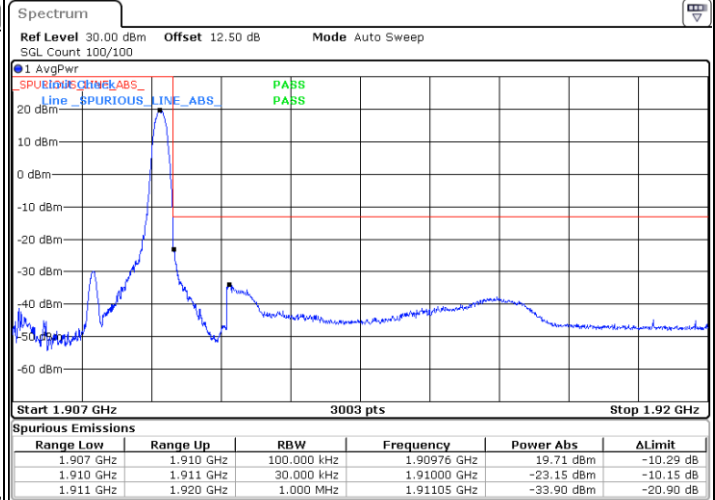


## LTE Band 2 / 3MHz / 16QAM

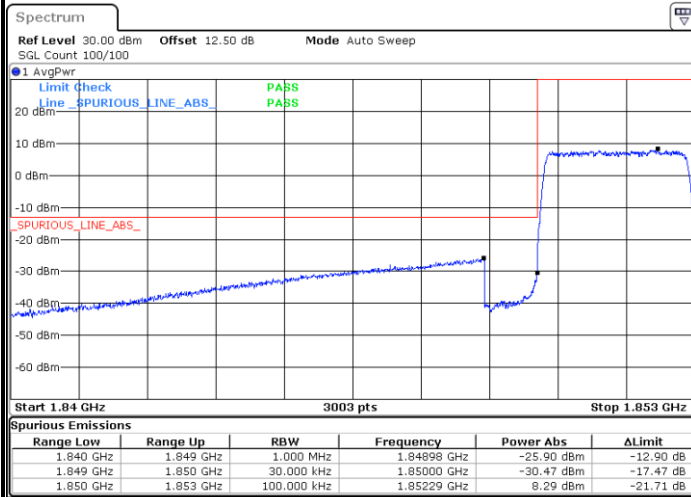
## Lowest Band Edge / 1 RB



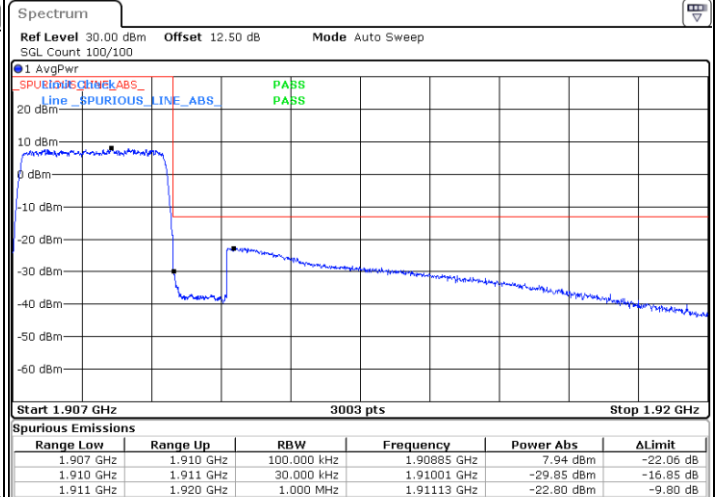
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



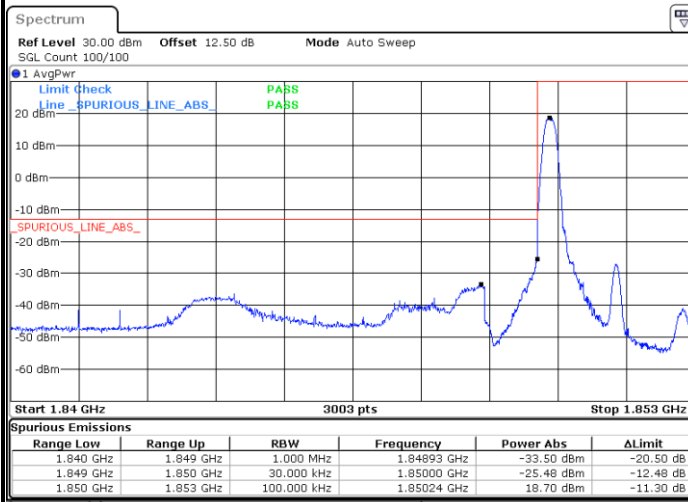
## Highest Band Edge / Full RB



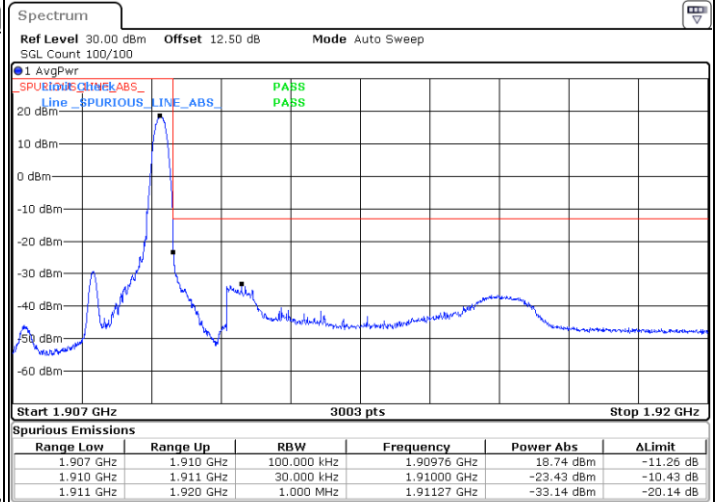


## LTE Band 2 / 3MHz / 64QAM

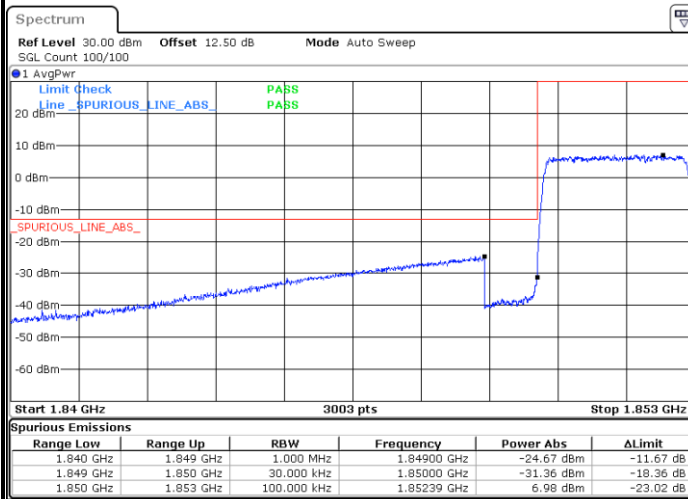
## Lowest Band Edge / 1 RB



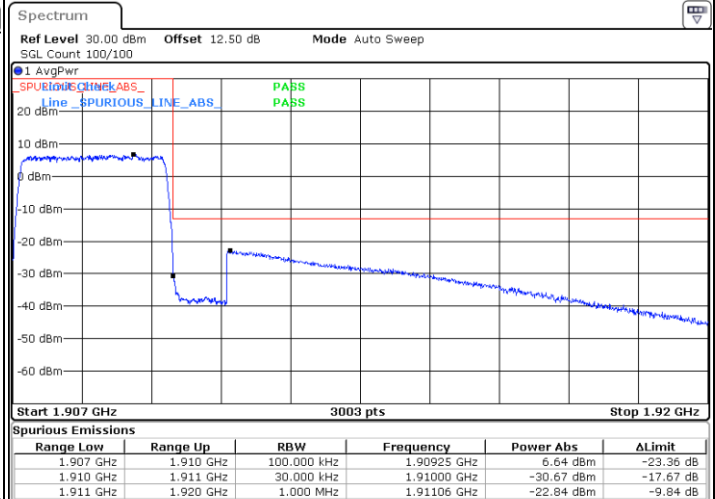
## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



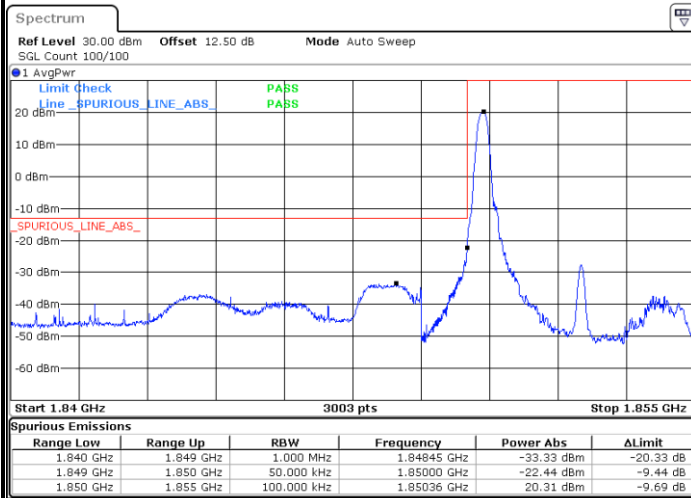
## Highest Band Edge / Full RB



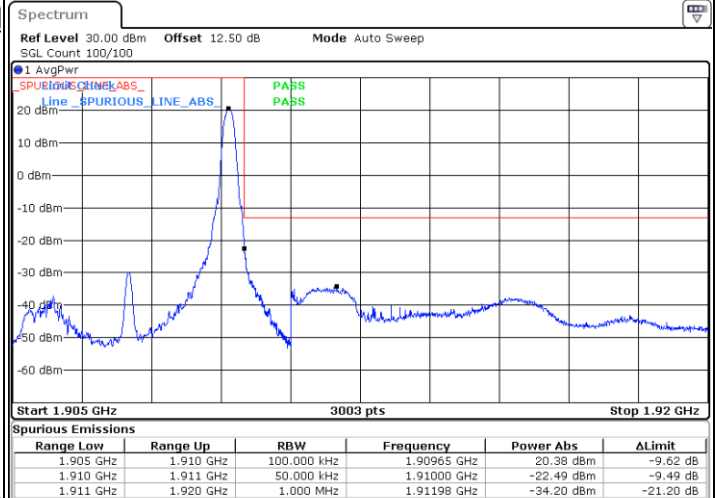


## LTE Band 2 / 5MHz / QPSK

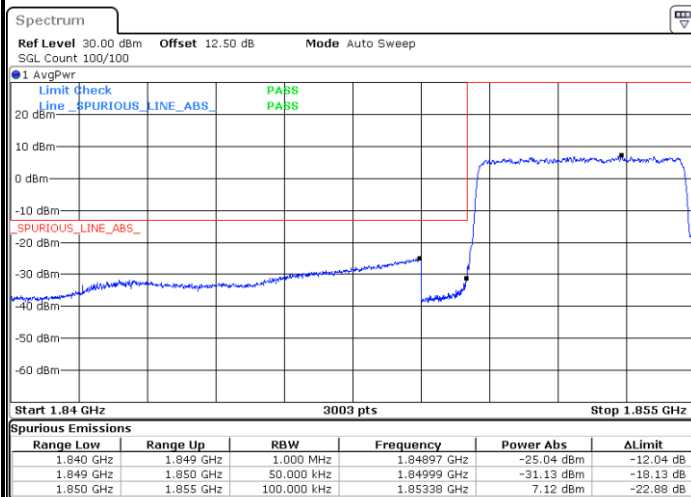
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

