



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-TP00131CLF  
**Equipment** : Notebook Computer  
**Brand Name** : Lenovo  
**Model Name** : TP00131C; TP00131D  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No.780, Beian Rd., Zhongshan Dist., Taipei  
104, Taiwan  
**Manufacturer** : LCFC (HeFei) Electronics Technology Co., Ltd.  
No. 3188-1, Yungu Road (Hefei Export  
Processing Zone), Hefei Economics &  
Technology Development Area, Anhui, CHINA  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27

Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

The product was received on Oct. 22, 2021 and testing was performed from Nov. 08, 2021 to Nov. 30, 2021. We, Sporton International Inc. Wensan 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 partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**



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## History of this test report

| Report No. | Version | Description                                                                                                                    | Issued Date   |
|------------|---------|--------------------------------------------------------------------------------------------------------------------------------|---------------|
| FG1O2145B  | 01      | Initial issue of report                                                                                                        | Dec. 29, 2021 |
| FG1O2145B  | 02      | 1. Revise Test Mode and Frequency List of Low/Middle/High Channels<br>2. Revise Appendix A<br>3. Revise Summary of Test Result | Jan. 12, 2022 |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
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|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |
|            |         |                                                                                                                                |               |

## Summary of Test Result

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



| 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>16.35 dB at<br>5342.000 MHz |
|               | §2.1051<br>§27.53 (m)(4)                                                                         | Radiated Spurious Emission<br>(Band 7) (Band 38) (Band 41)                                                                              |                    |                                            |

**Note:**

1. The module (Model: L860-GL-16) makes no difference after verifying output power, this report reuses test data from the module report.
2. Conducted power was verified to be consistent with the original modular approval, so the output power level in the original modular grant is referenced in this report for determining ERP/EIRP of this host product.

**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: Sheng Kuo****Report Producer: Tina Chuang**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Notebook Computer                                                                                                                                      |
| Brand Name                      | Lenovo                                                                                                                                                 |
| Model Name                      | TP00131C; TP00131D                                                                                                                                     |
| FCC ID                          | 2AJN7-TP00131CLF                                                                                                                                       |
| Sample 1                        | EUT with Amphenol Antenna                                                                                                                              |
| Sample 2                        | EUT with Speed Antenna                                                                                                                                 |
| EUT supports Radios application | WCDMA/HSPA/LTE/GNSS/NFC/UWB<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80/VHT160<br>WLAN 11ax HE20/HE40/HE80/HE160<br>Bluetooth BR/EDR/LE |
| EUT Stage                       | Production Unit                                                                                                                                        |

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Fibocom L860-GL-16 tested inside of Lenovo Notebook Computer.

| WWAN Antenna Information |              |             |                |                                                                                                                                                                                                                                                                                    |
|--------------------------|--------------|-------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Antenna             | Manufacturer | Amphenol    | Peak gain(dBi) | LTE Band 2 : -0.2<br>LTE Band 4 : -0.5<br>LTE Band 5 : -0.2<br>LTE Band 7 : 0.6<br>LTE Band 12 : -0.6<br>LTE Band 13 : -0.1<br>LTE Band 17 : -0.7<br>LTE Band 25 : -0.8<br>LTE Band 26 : 0.0<br>LTE Band 38 : 0.7<br>LTE Band 41 : 0.7<br>LTE Band 66 : -0.6<br>LTE Band 71 : -0.2 |
|                          | Part number  | DC33001QG40 | Type           | PIFA                                                                                                                                                                                                                                                                               |
|                          | Manufacturer | Speed       | Peak gain(dBi) | LTE Band 2 : -0.2<br>LTE Band 4 : -0.5<br>LTE Band 5 : -0.2<br>LTE Band 7 : 0.6<br>LTE Band 12 : -0.6<br>LTE Band 13 : -0.1<br>LTE Band 17 : -0.7<br>LTE Band 25 : -0.8<br>LTE Band 26 : 0.0<br>LTE Band 38 : 0.7<br>LTE Band 41 : 0.7<br>LTE Band 66 : -0.6<br>LTE Band 71 : -0.2 |
|                          | Part number  | DC33001RF40 | Type           | PIFA                                                                                                                                                                                                                                                                               |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. All the tests were performed with "Amphenol Antenna" as representative.



## 1.2 Product Specification of Equipment Under Test

| Product Specification is subject to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                               | LTE Band 2: 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4: 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5: 824.7 MHz ~ 848.3 MHz<br>LTE Band 7: 2502.5 MHz ~ 2567.5 MHz<br>LTE Band 12: 699.7 MHz ~ 715.3 MHz<br>LTE Band 13: 779.5 MHz ~ 784.5 MHz<br>LTE Band 17 : 706.5 MHz ~ 713.5 MHz<br>LTE Band 25: 1850.7 MHz ~ 1914.3 MHz<br>LTE Band 26: 824.7 MHz ~ 848.3 MHz<br>LTE Band 38: 2572.5 MHz ~ 2617.5 MHz<br>LTE Band 41: 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66: 1710.7 MHz ~ 1779.3 MHz<br>LTE Band 71: 665.5 MHz ~ 695.5 MHz                                                                                                                     |
| <b>Rx Frequency</b>                               | LTE Band 2: 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4: 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 5: 869.7 MHz ~ 893.3 MHz<br>LTE Band 7: 2622.5MHz ~ 2687.5 MHz<br>LTE Band 12: 729.7 MHz ~ 745.3 MHz<br>LTE Band 13: 748.5 MHz ~ 753.5 MHz<br>LTE Band 17 : 736.5 MHz ~ 743.5 MHz<br>LTE Band 25: 1930.7 MHz ~ 1994.3 MHz<br>LTE Band 26: 869.7 MHz ~ 893.3 MHz<br>LTE Band 38: 2572.5 MHz ~ 2617.5 MHz<br>LTE Band 41: 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66: 2110.7 MHz ~ 2199.3 MHz<br>LTE Band 71: 619.5 MHz ~ 649.5 MHz                                                                                                                      |
| <b>Bandwidth</b>                                  | LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13: 5MHz / 10MHz<br>LTE Band 17: 5MHz / 10MHz<br>LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz<br>LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz |

| Product Specification is subject to this standard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum Output Power to Antenna</b>            | LTE Band 2 : 23.32 dBm<br>LTE Band 4 : 22.98 dBm<br>LTE Band 5 : 22.92 dBm<br>LTE Band 5B : 23.06 dBm<br>LTE Band 7 : 23.26 dBm<br>LTE Band 7C : 23.95 dBm<br>LTE Band 12 : 22.86 dBm<br>LTE Band 13 : 22.73 dBm<br>LTE Band 17 : 22.85 dBm<br>LTE Band 25 : 23.32 dBm<br>LTE Band 26 : 22.93 dBm<br>LTE Band 38 : 23.46 dBm<br>LTE Band 38C : 23.57 dBm<br>LTE Band 41 : 25.35 dBm for HPUE<br>LTE Band 41C : 23.63 dBm<br>LTE Band 66 : 22.99 dBm<br>LTE Band 66B : 22.98 dBm<br>LTE Band 66C : 22.65 dBm<br>LTE Band 71 : 23.32 dBm |
| <b>Type of Modulation</b>                         | QPSK / 16QAM / 64QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### 1.3 Modification of EUT

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



## 1.4 Testing Location

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| Test Site             | Sporton International Inc. EMC & Wireless Communications Laboratory                                           |
| Test Site Location    | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333                                                         |
| Test Site No.         | <b>Sporton Site No.</b>                                                                                       |
|                       | TH03-HY (TAF Code: 1190)                                                                                      |
| Test Engineer         | Benjamin Lin                                                                                                  |
| Temperature (°C)      | 23.5~25.0                                                                                                     |
| Relative Humidity (%) | 49.4~52.0                                                                                                     |
| Remark                | The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory. |

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| Test Site             | Sporton International Inc. Wensan Laboratory                                 |
| Test Site Location    | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010 |
| Test Site No.         | <b>Sporton Site No.</b>                                                      |
|                       | 03CH11-HY                                                                    |
| Test Engineer         | Harvey Guo, Fu Chen and Troye Hsieh                                          |
| Temperature (°C)      | 18.1~23.1                                                                    |
| Relative Humidity (%) | 55.3~69.9                                                                    |

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

FCC Designation No.: TW1190 and TW3786

## 1.5 Applicable Standards

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

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

**Remark:**

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



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168

D01 Power Meas. License Digital Systems v03r01 with maximum output power.

| 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.<br>Output<br>Power | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
|                         | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v          |      | v    | v            | v | v |
| 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     |            |      |      |              |   |   |



| 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 |
| Radiated Spurious Emission | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Covered by Band 25 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Covered by Band 66 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Covered by Band 26 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                  | - |   |    |    | v  | v          |       |       | v    |      |      | v            | v | v |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |   |   | v  | -  | -  | v          |       |       | v    |      |      | v            | v | v |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                  | - | v | v  | -  | -  | v          |       |       | v    |      |      | v            | v | v |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Covered by Band 12 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |   |   |    |    | v  | v          |       |       | v    |      |      | v            | v | v |
|                            | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |   |   |    | v  | -  | v          |       |       | v    |      |      | v            | v | v |
|                            | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Covered by Band 41 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                            | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                  | - |   |    |    | v  | v          |       |       | v    |      |      | v            | v | v |
|                            | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |   |   |    |    | v  | v          |       |       | v    |      |      | v            | v | v |
|                            | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -                  | - |   |    |    | v  | v          |       |       | v    |      |      | v            | v | v |
| Remark                     | <ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>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.</li> <li>Wider operating range bandwidth covers narrower one when the power is higher or the same.</li> <li>All the radiated test cases were performed with Battery 1.</li> </ol> |                    |   |   |    |    |    |            |       |       |      |      |      |              |   |   |

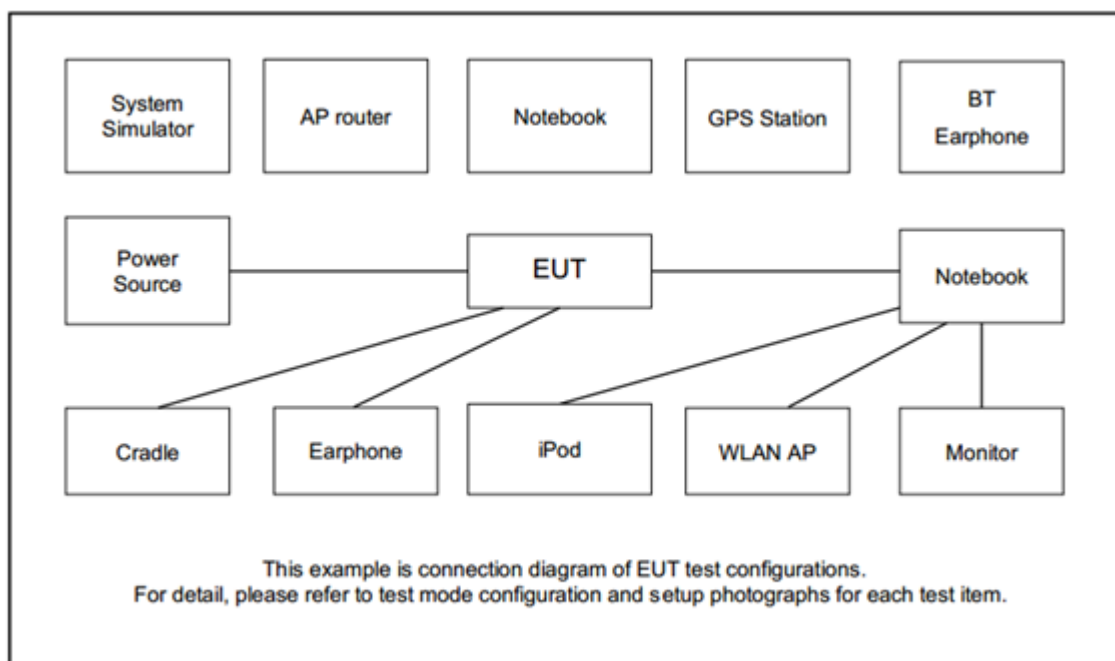


| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |     |      |      |       | Modulation |       |       | RB #       |      |      | Test Channel |   |   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------|------|-------|------------|-------|-------|------------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3+5             | 5+3 | 5+10 | 10+5 | 10+10 | QPSK       | 16QAM | 64QAM | 1          | Half | Full | L            | M | H |
| Max. Output Power          | 5B_CA                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |      |      | v     | v          | v     | v     | v          |      | v    | v            | v | v |
| E.R.P.                     | 5B_CA                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |     |      |      | v     | v          | v     | v     | Max. Power |      |      |              |   |   |
| Radiated Spurious Emission | 5B_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.<br>4. All the radiated test cases were performed with Battery 1. |                 |     |      |      |       |            |       |       |            |      |      |              |   |   |

| 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          | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | v                   | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     | v          |      | v    | v            | v | v |
|                            | 38C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | v                   | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     | v          |      | v    | v            | v | v |
|                            | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 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 |
| E.I.R.P.                   | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | v                   | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     | Max. Power |      |      |              |   |   |
|                            | 38C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | v                   | -     | -     | -     | -     | -    | -    | v     | -     | -     | v          | v     | v     |            |      |      |              |   |   |
|                            | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | v                   | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |            |      |      |              |   |   |
|                            | 66C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | v                   |       |       |       |       |      |      |       |       |       | v          | v     | v     |            |      |      |              |   |   |
| Radiated Spurious Emission | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | v                   |       |       |       |       |      |      |       |       |       | v          |       |       | v          |      |      | v            | v | v |
|                            | 38C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Covered by Band 41C |       |       |       |       |      |      |       |       |       |            |       |       | v          |      |      | v            | v | v |
|                            | 41C_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.<br>4. Wider operating range bandwidth covers narrower one when the power is higher or the same.<br>5. All the radiated test cases were performed with Battery 1. |                     |       |       |       |       |      |      |       |       |       |            |       |       |            |      |      |              |   |   |

| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |      |      |      |      |       | Modulation |       |       | RB #       |      |      | Test Channel |   |   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------|------|-------|------------|-------|-------|------------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5+5             | 5+10 | 10+5 | 5+15 | 15+5 | 10+10 | QPSK       | 16QAM | 64QAM | 1          | Half | Full | L            | M | H |
| Max. Output Power          | 66B_CA                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |      |      |      | v    |       | v          | v     | v     | v          |      | v    | v            | v | v |
| E.I.R.P.                   | 66B_CA                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |      |      |      | v    |       | v          | v     | v     | Max. Power |      |      |              |   |   |
| Radiated Spurious Emission | 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.<br>4. All the radiated test cases were performed with Battery 1. |                 |      |      |      |      |       |            |       |       |            |      |      |              |   |   |

## 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.   | System Simulator | Anritsu    | MT8820C   | N/A          | N/A               | Unshielded, 1.8 m |
| 3.   | iPod Earphone    | Apple      | N/A       | Verification | Unshielded, 1.0 m | N/A               |



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

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

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



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

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

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



| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |
| LTE Band 17 Channel and Frequency List |                        |        |        |         |
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23780  | 23790  | 23800   |
|                                        | Frequency              | 709    | 710    | 711     |
| 5                                      | Channel                | 23755  | 23790  | 23825   |
|                                        | Frequency              | 706.5  | 710    | 713.5   |
| LTE Band 25 Channel and Frequency List |                        |        |        |         |
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 26140  | 26340  | 26590   |
|                                        | Frequency              | 1860   | 1880   | 1905    |
| 15                                     | Channel                | 26115  | 26340  | 26615   |
|                                        | Frequency              | 1857.5 | 1880   | 1907.5  |
| 10                                     | Channel                | 26090  | 26340  | 26640   |
|                                        | Frequency              | 1855   | 1880   | 1910    |
| 5                                      | Channel                | 26065  | 26340  | 26665   |
|                                        | Frequency              | 1852.5 | 1880   | 1912.5  |
| 3                                      | Channel                | 26055  | 26340  | 26675   |
|                                        | Frequency              | 1851.5 | 1880   | 1913.5  |
| 1.4                                    | Channel                | 26047  | 26340  | 26683   |
|                                        | Frequency              | 1850.7 | 1880   | 1914.3  |



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

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

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



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

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

| LTE Band 5B Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 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 7 Channel and Frequency List_CA |                        |           |        |        |         |
|------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                 | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                  | PCC                    | Channel   | 20850  | 21001  | 21152   |
|                                          |                        | Frequency | 2510.0 | 2525.1 | 2540.2  |
|                                          | SCC                    | Channel   | 21048  | 21199  | 21350   |
|                                          |                        | Frequency | 2529.8 | 2544.9 | 2560.0  |
| 20 + 15                                  | PCC                    | Channel   | 20850  | 21026  | 21201   |
|                                          |                        | Frequency | 2510.0 | 2527.6 | 2545.1  |
|                                          | SCC                    | Channel   | 21021  | 21197  | 21372   |
|                                          |                        | Frequency | 2527.1 | 2544.7 | 2562.2  |
| 15 + 20                                  | PCC                    | Channel   | 20828  | 21003  | 21179   |
|                                          |                        | Frequency | 2507.8 | 2525.3 | 2542.9  |
|                                          | SCC                    | Channel   | 20999  | 21174  | 21350   |
|                                          |                        | Frequency | 2524.9 | 2542.4 | 2560.0  |
| 20 + 10                                  | PCC                    | Channel   | 20850  | 21051  | 21251   |
|                                          |                        | Frequency | 2510.0 | 2530.1 | 2550.1  |
|                                          | SCC                    | Channel   | 20994  | 21195  | 21395   |
|                                          |                        | Frequency | 2524.4 | 2544.5 | 2564.5  |
| 10 + 20                                  | PCC                    | Channel   | 20805  | 21006  | 21206   |
|                                          |                        | Frequency | 2505.5 | 2525.6 | 2545.6  |
|                                          | SCC                    | Channel   | 20949  | 21150  | 21350   |
|                                          |                        | Frequency | 2519.9 | 2540.0 | 2560.0  |
| 15 + 15                                  | PCC                    | Channel   | 20825  | 21025  | 21225   |
|                                          |                        | Frequency | 2507.5 | 2527.5 | 2547.5  |
|                                          | SCC                    | Channel   | 20975  | 21175  | 21375   |
|                                          |                        | Frequency | 2522.5 | 2542.5 | 2562.5  |
| 15 + 10                                  | PCC                    | Channel   | 20825  | 21051  | 21277   |
|                                          |                        | Frequency | 2507.5 | 2530.1 | 2552.7  |
|                                          | SCC                    | Channel   | 20945  | 21171  | 21397   |
|                                          |                        | Frequency | 2519.5 | 2542.1 | 2564.7  |



| LTE Band 38 Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| 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  | -      | -       |
|                                           |                        | Frequency | 2577.5 | -      | -       |
|                                           | SCC                    | Channel   | 37975  | -      | -       |
|                                           |                        | Frequency | 2592.5 | -      | -       |

| LTE Band 41 Channel and Frequency List_CA |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| 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_CA |     |           |        |        |        |
|-------------------------------------------|-----|-----------|--------|--------|--------|
| 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 66B Channel and Frequency List_CA |                        |           |        |        |         |
|--------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                   | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 15 + 5                                     | PCC                    | Channel   | 132047 | 132398 | 132549  |
|                                            |                        | Frequency | 1717.5 | 1752.6 | 1767.7  |
|                                            | SCC                    | Channel   | 132140 | 133391 | 132642  |
|                                            |                        | Frequency | 1726.8 | 1761.9 | 1777.0  |

| LTE Band 66C Channel and Frequency List_CA |     |           |        |        |        |
|--------------------------------------------|-----|-----------|--------|--------|--------|
| 20 + 20                                    | PCC | Channel   | 132072 | 132323 | 132374 |
|                                            |     | Frequency | 1720.0 | 1745.1 | 1750.2 |
|                                            | SCC | Channel   | 132270 | 133421 | 132572 |
|                                            |     | Frequency | 1739.8 | 1764.9 | 1770.0 |

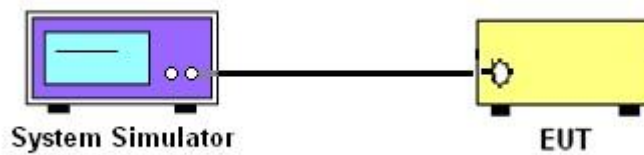
### 3 Conducted Test Items

#### 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 Test Result of Conducted Test

Please refer to Appendix A.

## 3.2 Conducted Output Power and ERP/EIRP

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

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

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

### 3.2.2 Test Procedures

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

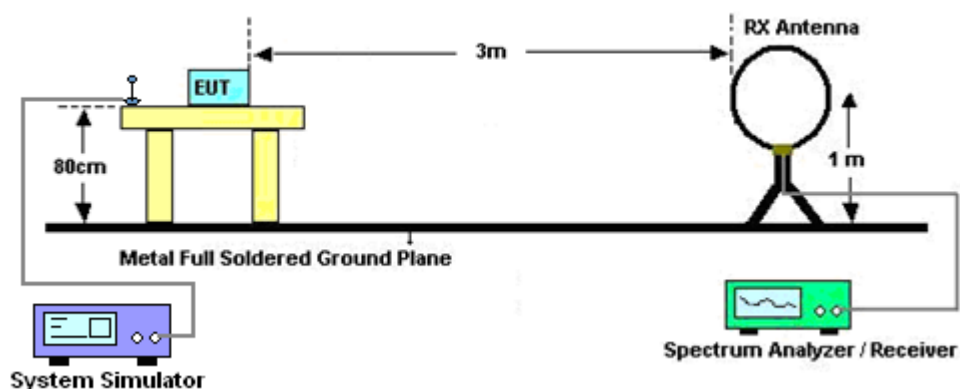
## 4 Radiated Test Items

### 4.1 Measuring Instruments

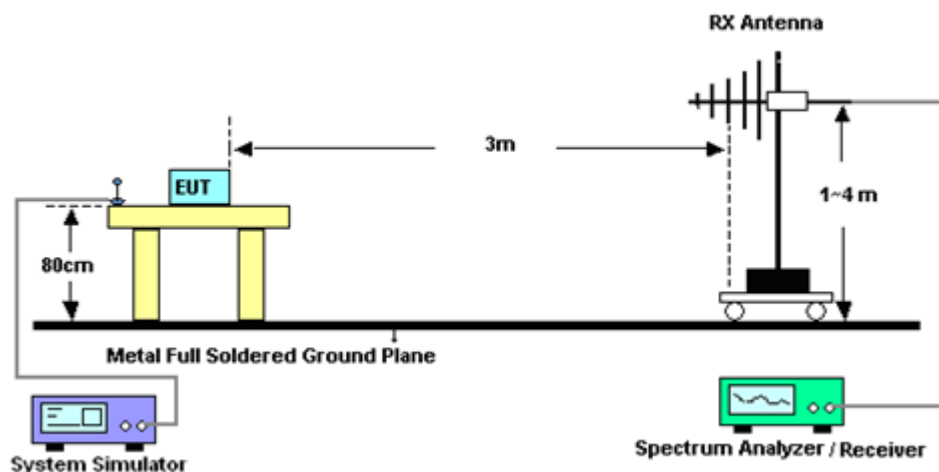
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

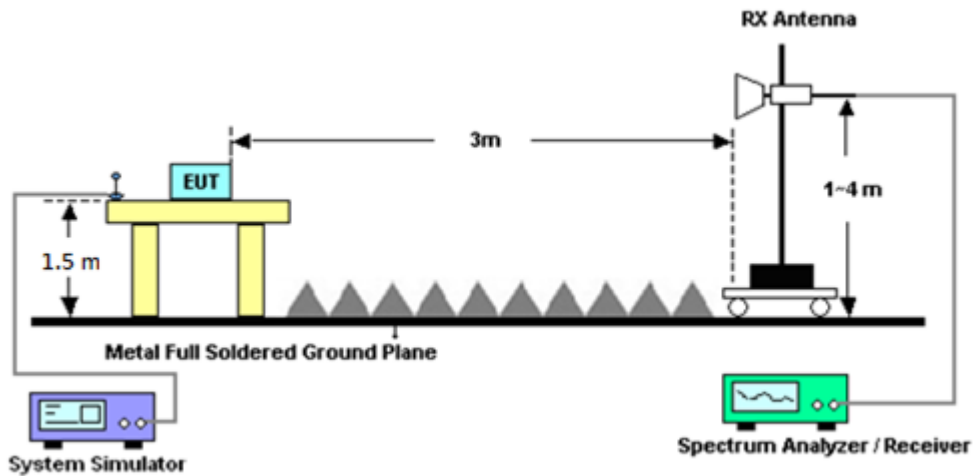
For radiated test below 30MHz



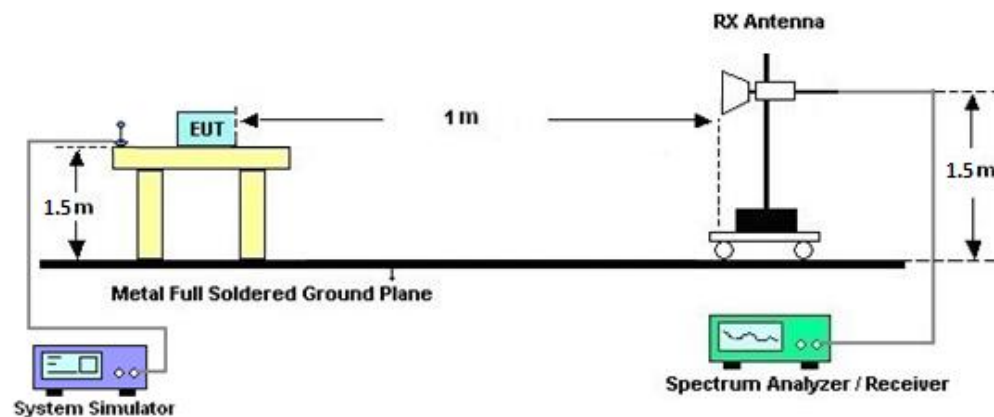
For radiated test from 30MHz to 1GHz



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



## **4.2 Radiated Spurious Emission Measurement**

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

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

For LTE Band 7, 38, 41

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

For LTE Band 13

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

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

### **4.2.2 Test Procedures**

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

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

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

For LTE Band 7, 38, 41

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

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

ERP (dBm) = EIRP - 2.15



## 5 List of Measuring Equipment

| Instrument             | Brand Name      | Model No.                   | Serial No.           | Characteristics               | Calibration Date | Test Date                       | Due Date      | Remark                |
|------------------------|-----------------|-----------------------------|----------------------|-------------------------------|------------------|---------------------------------|---------------|-----------------------|
| Base Station (Measure) | Anritsu         | MT8821C                     | 6262025341           | N/A                           | Oct. 05, 2021    | Nov. 15, 2021                   | Oct. 04, 2022 | Conducted (TH03-HY)   |
| Horn Antenna           | SCHWARZBECK     | BBHA 9120 D                 | 9120D-1326           | 1GHz ~ 18GHz                  | Oct. 25, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Oct. 24, 2022 | Radiation (03CH11-HY) |
| Bilog Antenna          | TESEQ           | CBL 6111D & N-6-06          | 35414 & AT-N0602     | 30MHz~1GHz                    | Oct. 09, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Oct. 08, 2022 | Radiation (03CH11-HY) |
| Loop Antenna           | Rohde & Schwarz | HFH2-Z2                     | 100315               | 9 kHz~30 MHz                  | Jan. 04, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Jan. 03, 2022 | Radiation (03CH11-HY) |
| Preamplifier           | Keysight        | 83017A                      | MY53270080           | 1GHz~26.5GHz                  | Nov. 12, 2020    | Nov. 08, 2021~<br>Nov. 30, 2021 | Nov. 11, 2021 | Radiation (03CH11-HY) |
| Preamplifier           | Keysight        | 83017A                      | MY53270080           | 1GHz~26.5GHz                  | Nov. 10, 2021    | Nov. 10, 2021~<br>Nov. 30, 2021 | Nov. 09, 2022 | Radiation (03CH11-HY) |
| Preamplifier           | Jet-Power       | JPA0118-55-303              | 1710001800<br>055007 | 1GHz~18GHz                    | Jun. 16, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Jun. 15, 2022 | Radiation (03CH11-HY) |
| Preamplifier           | EMEC            | EM18G40G                    | 060801               | 18GHz~40GHz                   | Jun. 22, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Jun. 21, 2022 | Radiation (03CH11-HY) |
| Amplifier              | SONOMA          | 310N                        | 187312               | 9kHz~1GHz                     | Dec. 02, 2020    | Nov. 08, 2021~<br>Nov. 30, 2021 | Dec. 01, 2021 | Radiation (03CH11-HY) |
| Spectrum Analyzer      | Keysight        | N9010A                      | MY54200486           | 10Hz~44GHz                    | Oct. 15, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Oct. 14, 2022 | Radiation (03CH11-HY) |
| Signal Generator       | Rohde & Schwarz | SMF100A                     | 101107               | 100kHz~40GHz                  | Dec. 04, 2020    | Nov. 08, 2021~<br>Nov. 30, 2021 | Dec. 03, 2021 | Radiation (03CH11-HY) |
| Controller             | EMEC            | EM 1000                     | N/A                  | Control Turn table & Ant Mast | N/A              | Nov. 08, 2021~<br>Nov. 30, 2021 | N/A           | Radiation (03CH11-HY) |
| Antenna Mast           | EMEC            | AM-BS-4500-B                | N/A                  | 1~4m                          | N/A              | Nov. 08, 2021~<br>Nov. 30, 2021 | N/A           | Radiation (03CH11-HY) |
| Turn Table             | EMEC            | TT 2000                     | N/A                  | 0~360 Degree                  | N/A              | Nov. 08, 2021~<br>Nov. 30, 2021 | N/A           | Radiation (03CH11-HY) |
| Software               | Audix           | E3<br>6.2009-8-24           | RK-001053            | N/A                           | N/A              | Nov. 08, 2021~<br>Nov. 30, 2021 | N/A           | Radiation (03CH11-HY) |
| RF Cable               | HUBER + SUHNER  | SUCOFLEX 104                | MY9837/4PE           | 9kHz-30MHz                    | Mar. 11, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable               | HUBER + SUHNER  | SUCOFLEX 102                | MY2859/2             | 30MHz-40GHz                   | Mar. 11, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable               | HUBER + SUHNER  | SUCOFLEX 104                | MY9837/4PE           | 30M-18G                       | Mar. 11, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| RF Cable               | HUBER + SUHNER  | SUCOFLEX 102                | MY4274/2             | 30MHz-40GHz                   | Mar. 11, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Mar. 10, 2022 | Radiation (03CH11-HY) |
| Filter                 | Wainwright      | WHKX12-1080-1200-15000-60ST | SN5                  | 1.2GHz High Pass Filter       | Jun. 30, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Jun. 29, 2022 | Radiation (03CH11-HY) |
| Filter                 | Wainwright      | WHKX12-2700-3000-18000-60SS | SN3                  | 3GHz High Pass Filter         | Sep. 13, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Sep. 12, 2022 | Radiation (03CH11-HY) |
| Hygrometer             | TECEPEL         | DTM-303B                    | TP200880             | N/A                           | Sep. 30, 2021    | Nov. 08, 2021~<br>Nov. 30, 2021 | Sep. 29, 2022 | Radiation (03CH11-HY) |



## 6 Uncertainty of Evaluation

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.09 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.56 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.00 dB |
|-------------------------------------------------------------------------|---------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power & ERP/EIRP)

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 23.23  | 22.65  | 23.31   | 23.11      | 0.2046   |
| 20                                                         | 1         | 99        |        | 22.65  | 21.86  | 23.26   |            |          |
| 20                                                         | 100       | 0         |        | 21.85  | 21.22  | 21.65   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 22.66  | 23.32  | 22.52   | 23.12      | 0.2051   |
| 20                                                         | 1         | 0         | 64-QAM | 21.33  | 20.89  | 21.66   | 21.46      | 0.1400   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 23.05  | 22.75  | 23.15   | 22.95      | 0.1972   |
| 15                                                         | 1         | 0         | 16-QAM | 22.65  | 21.65  | 22.44   | 22.45      | 0.1758   |
| 15                                                         | 1         | 0         | 64-QAM | 21.36  | 21.23  | 21.52   | 21.32      | 0.1355   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 22.79  | 22.86  | 22.58   | 22.66      | 0.1845   |
| 10                                                         | 1         | 0         | 16-QAM | 22.06  | 22.18  | 21.89   | 21.98      | 0.1578   |
| 10                                                         | 1         | 0         | 64-QAM | 21.32  | 20.86  | 20.73   | 21.12      | 0.1294   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.11  | 23.02  | 22.95   | 22.91      | 0.1954   |
| 5                                                          | 1         | 0         | 16-QAM | 22.12  | 22.23  | 22.25   | 22.05      | 0.1603   |
| 5                                                          | 1         | 0         | 64-QAM | 21.52  | 21.25  | 21.36   | 21.32      | 0.1355   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 22.96  | 23.06  | 23.09   | 22.89      | 0.1945   |
| 3                                                          | 1         | 0         | 16-QAM | 22.03  | 22.32  | 22.16   | 22.12      | 0.1629   |
| 3                                                          | 1         | 0         | 64-QAM | 21.25  | 21.56  | 21.36   | 21.36      | 0.1368   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 23.05  | 23.16  | 23.25   | 23.05      | 0.2018   |
| 1.4                                                        | 1         | 0         | 16-QAM | 22.32  | 22.36  | 22.44   | 22.24      | 0.1675   |
| 1.4                                                        | 1         | 0         | 64-QAM | 22.13  | 21.23  | 21.25   | 21.93      | 0.1560   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 22.77  | 22.85  | 23.32   | 22.52      | 0.1786   |
| 20                                                          | 1         | 99        |        | 22.82  | 23.06  | 22.63   |            |          |
| 20                                                          | 100       | 0         |        | 21.87  | 22.05  | 22.13   |            |          |
| 20                                                          | 1         | 0         | 16-QAM | 22.01  | 21.87  | 22.63   | 21.83      | 0.1524   |
| 20                                                          | 1         | 0         | 64-QAM | 21.32  | 21.23  | 21.37   | 20.57      | 0.1140   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                          | 1         | 0         | QPSK   | 22.63  | 22.73  | 22.85   | 22.05      | 0.1603   |
| 15                                                          | 1         | 0         | 16-QAM | 21.68  | 22.25  | 21.87   | 21.45      | 0.1396   |
| 15                                                          | 1         | 0         | 64-QAM | 20.96  | 21.21  | 21.12   | 20.41      | 0.1099   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                          | 1         | 0         | QPSK   | 22.72  | 22.68  | 22.72   | 21.92      | 0.1556   |
| 10                                                          | 1         | 0         | 16-QAM | 21.86  | 21.82  | 21.63   | 21.06      | 0.1276   |
| 10                                                          | 1         | 0         | 64-QAM | 20.85  | 21.03  | 20.85   | 20.23      | 0.1054   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                           | 1         | 0         | QPSK   | 22.63  | 22.65  | 23.13   | 22.33      | 0.1710   |
| 5                                                           | 1         | 0         | 16-QAM | 22.12  | 21.85  | 22.62   | 21.82      | 0.1521   |
| 5                                                           | 1         | 0         | 64-QAM | 20.87  | 20.69  | 21.36   | 20.56      | 0.1138   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                           | 1         | 0         | QPSK   | 22.63  | 22.56  | 22.93   | 22.13      | 0.1633   |
| 3                                                           | 1         | 0         | 16-QAM | 21.85  | 21.86  | 21.93   | 21.13      | 0.1297   |
| 3                                                           | 1         | 0         | 64-QAM | 20.32  | 20.78  | 21.32   | 20.52      | 0.1127   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.8 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                         | 1         | 0         | QPSK   | 22.63  | 22.63  | 22.66   | 21.86      | 0.1535   |
| 1.4                                                         | 1         | 0         | 16-QAM | 21.56  | 21.68  | 21.92   | 21.12      | 0.1294   |
| 1.4                                                         | 1         | 0         | 64-QAM | 20.72  | 20.86  | 20.68   | 20.06      | 0.1014   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 22.98  | 22.78  | 22.89   | 22.48      | 0.1770   |
| 20                                                         | 1         | 99        |        | 22.63  | 22.86  | 22.85   |            |          |
| 20                                                         | 100       | 0         |        | 21.77  | 21.79  | 21.96   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 22.56  | 22.26  | 22.56   | 22.06      | 0.1607   |
| 20                                                         | 1         | 0         | 64-QAM | 21.65  | 20.80  | 21.25   | 21.15      | 0.1303   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 22.86  | 22.59  | 22.79   | 22.36      | 0.1722   |
| 15                                                         | 1         | 0         | 16-QAM | 22.38  | 22.21  | 21.58   | 21.88      | 0.1542   |
| 15                                                         | 1         | 0         | 64-QAM | 21.36  | 20.65  | 20.72   | 20.86      | 0.1219   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 22.78  | 22.60  | 22.89   | 22.39      | 0.1734   |
| 10                                                         | 1         | 0         | 16-QAM | 21.85  | 21.65  | 21.98   | 21.48      | 0.1406   |
| 10                                                         | 1         | 0         | 64-QAM | 21.18  | 20.85  | 21.36   | 20.86      | 0.1219   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 22.96  | 22.67  | 22.96   | 22.46      | 0.1762   |
| 5                                                          | 1         | 0         | 16-QAM | 22.16  | 21.69  | 22.22   | 21.72      | 0.1486   |
| 5                                                          | 1         | 0         | 64-QAM | 21.33  | 21.21  | 21.16   | 20.83      | 0.1211   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                          | 1         | 0         | QPSK   | 22.82  | 22.44  | 22.77   | 22.32      | 0.1706   |
| 3                                                          | 1         | 0         | 16-QAM | 21.63  | 21.63  | 21.65   | 21.15      | 0.1303   |
| 3                                                          | 1         | 0         | 64-QAM | 20.86  | 20.75  | 21.18   | 20.68      | 0.1169   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = -0.5 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                        | 1         | 0         | QPSK   | 22.63  | 22.68  | 22.78   | 22.28      | 0.1690   |
| 1.4                                                        | 1         | 0         | 16-QAM | 21.65  | 21.75  | 22.13   | 21.63      | 0.1455   |
| 1.4                                                        | 1         | 0         | 64-QAM | 21.23  | 20.63  | 21.36   | 20.86      | 0.1219   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                         | 1        | 0         | QPSK   | 22.86  | 22.92  | 22.83   | 20.57     | 0.1140  |
| 10                                                         | 1        | 49        |        | 22.75  | 22.73  | 22.63   |           |         |
| 10                                                         | 50       | 0         |        | 21.78  | 21.82  | 21.83   |           |         |
| 10                                                         | 1        | 0         | 16-QAM | 21.85  | 21.89  | 21.86   | 19.54     | 0.0899  |
| 10                                                         | 1        | 0         | 64-QAM | 21.32  | 21.26  | 21.66   | 19.31     | 0.0853  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                          | 1        | 0         | QPSK   | 22.78  | 22.76  | 22.77   | 20.43     | 0.1104  |
| 5                                                          | 1        | 0         | 16-QAM | 21.85  | 21.88  | 21.85   | 19.53     | 0.0897  |
| 5                                                          | 1        | 0         | 64-QAM | 21.25  | 21.56  | 21.36   | 19.21     | 0.0834  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                          | 1        | 0         | QPSK   | 22.75  | 22.78  | 22.91   | 20.56     | 0.1138  |
| 3                                                          | 1        | 0         | 16-QAM | 21.86  | 21.66  | 22.22   | 19.87     | 0.0971  |
| 3                                                          | 1        | 0         | 64-QAM | 21.65  | 21.36  | 21.63   | 19.30     | 0.0851  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                   | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                        | 1        | 0         | QPSK   | 22.78  | 22.86  | 22.86   | 20.51     | 0.1125  |
| 1.4                                                        | 1        | 0         | 16-QAM | 21.85  | 21.36  | 21.63   | 19.50     | 0.0891  |
| 1.4                                                        | 1        | 0         | 64-QAM | 20.96  | 21.26  | 21.35   | 19.00     | 0.0794  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.6 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                        | 1         | 0         | QPSK   | 23.12  | 23.26  | 22.77   | 23.86      | 0.2432   |
| 20                                                        | 1         | 99        |        | 23.03  | 22.86  | 23.26   |            |          |
| 20                                                        | 100       | 0         |        | 22.12  | 22.44  | 22.13   |            |          |
| 20                                                        | 1         | 0         | 16-QAM | 22.56  | 22.76  | 21.87   | 23.36      | 0.2168   |
| 20                                                        | 1         | 0         | 64-QAM | 21.22  | 21.59  | 20.86   | 22.19      | 0.1656   |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.6 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                        | 1         | 0         | QPSK   | 23.13  | 23.22  | 22.89   | 23.82      | 0.2410   |
| 15                                                        | 1         | 0         | 16-QAM | 22.56  | 22.58  | 22.12   | 23.18      | 0.2080   |
| 15                                                        | 1         | 0         | 64-QAM | 21.58  | 21.36  | 21.23   | 22.18      | 0.1652   |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.6 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                        | 1         | 0         | QPSK   | 23.23  | 23.23  | 23.13   | 23.83      | 0.2415   |
| 10                                                        | 1         | 0         | 16-QAM | 22.58  | 22.52  | 22.52   | 23.18      | 0.2080   |
| 10                                                        | 1         | 0         | 64-QAM | 21.21  | 21.62  | 21.52   | 22.22      | 0.1667   |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 0.6 dB) |           |           |        |        |        |         |            |          |
|-----------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                  | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                         | 1         | 0         | QPSK   | 23.06  | 23.23  | 23.12   | 23.83      | 0.2415   |
| 5                                                         | 1         | 0         | 16-QAM | 22.55  | 22.44  | 22.56   | 23.16      | 0.2070   |
| 5                                                         | 1         | 0         | 64-QAM | 21.85  | 21.56  | 21.52   | 22.45      | 0.1758   |
| Limit                                                     | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.58  | 22.86  | 22.72   | 20.11     | 0.1026  |
| 10                                                          | 1        | 49        |        | 22.62  | 22.56  | 22.63   |           |         |
| 10                                                          | 50       | 0         |        | 21.72  | 21.58  | 21.68   |           |         |
| 10                                                          | 1        | 0         | 16-QAM | 21.65  | 22.21  | 21.85   | 19.46     | 0.0883  |
| 10                                                          | 1        | 0         | 64-QAM | 20.75  | 21.97  | 20.65   | 19.22     | 0.0836  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.63  | 22.69  | 22.63   | 19.94     | 0.0986  |
| 5                                                           | 1        | 0         | 16-QAM | 21.86  | 21.86  | 21.75   | 19.11     | 0.0815  |
| 5                                                           | 1        | 0         | 64-QAM | 20.96  | 20.96  | 21.13   | 18.38     | 0.0689  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                           | 1        | 0         | QPSK   | 22.63  | 22.63  | 22.66   | 19.91     | 0.0979  |
| 3                                                           | 1        | 0         | 16-QAM | 21.86  | 21.85  | 21.86   | 19.11     | 0.0815  |
| 3                                                           | 1        | 0         | 64-QAM | 20.75  | 20.96  | 20.96   | 18.21     | 0.0662  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                         | 1        | 0         | QPSK   | 22.56  | 22.68  | 22.69   | 19.94     | 0.0986  |
| 1.4                                                         | 1        | 0         | 16-QAM | 21.87  | 21.86  | 22.20   | 19.45     | 0.0881  |
| 1.4                                                         | 1        | 0         | 64-QAM | 21.86  | 20.96  | 20.98   | 19.11     | 0.0815  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.1 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 22.73  | -       | 20.48     | 0.1117  |
| 10                                                          | 1        | 49        |        |        | 22.56  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 21.65  |         |           |         |
| 10                                                          | 1        | 0         | 16-QAM |        | 21.86  |         | 19.61     | 0.0914  |
| 10                                                          | 1        | 0         | 64-QAM |        | 20.97  |         | 18.72     | 0.0745  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 13 Maximum Average Power [dBm] (GT - LC = -0.1 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.52  | 22.65  | 22.72   | 20.47     | 0.1114  |
| 5                                                           | 1        | 0         | 16-QAM | 21.52  | 21.85  | 21.36   | 19.60     | 0.0912  |
| 5                                                           | 1        | 0         | 64-QAM | 20.96  | 20.96  | 20.56   | 18.71     | 0.0743  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.7 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.85  | 22.63  | 22.75   | 20.00     | 0.1000  |
| 10                                                          | 1        | 49        |        | 22.72  | 22.69  | 22.32   |           |         |
| 10                                                          | 50       | 0         |        | 21.62  | 21.65  | 21.82   |           |         |
| 10                                                          | 1        | 0         | 16-QAM | 21.87  | 21.36  | 21.65   | 19.02     | 0.0798  |
| 10                                                          | 1        | 0         | 64-QAM | 21.32  | 20.85  | 21.12   | 18.47     | 0.0703  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.7 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.82  | 22.72  | 22.63   | 19.97     | 0.0993  |
| 5                                                           | 1        | 0         | 16-QAM | 21.86  | 21.69  | 21.71   | 19.01     | 0.0796  |
| 5                                                           | 1        | 0         | 64-QAM | 20.86  | 20.78  | 20.65   | 18.01     | 0.0632  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                 | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                       | 1        | 0         | QPSK   | 22.63  | 22.66  | 22.93   | 20.78     | 0.1197  |
| 15                                                       | 1        | 74        |        | 22.76  | 22.56  | 22.63   |           |         |
| 15                                                       | 75       | 0         |        | 21.86  | 21.78  | 21.68   |           |         |
| 15                                                       | 1        | 0         | 16-QAM | 20.85  | 21.72  | 21.52   | 19.57     | 0.0906  |
| Limit                                                    | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                 | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                       | 1        | 0         | QPSK   | 22.75  | 22.76  | 22.73   | 20.61     | 0.1151  |
| 10                                                       | 1        | 0         | 16-QAM | 21.36  | 21.32  | 21.56   | 19.41     | 0.0873  |
| 10                                                       | 1        | 0         | 64-QAM | 20.63  | 20.53  | 20.25   | 18.48     | 0.0705  |
| Limit                                                    | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                 | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                        | 1        | 0         | QPSK   | 22.63  | 22.76  | 22.68   | 20.61     | 0.1151  |
| 5                                                        | 1        | 0         | 16-QAM | 21.71  | 21.35  | 21.52   | 19.56     | 0.0904  |
| 5                                                        | 1        | 0         | 64-QAM | 20.68  | 20.35  | 20.36   | 18.53     | 0.0713  |
| Limit                                                    | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                 | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 3                                                        | 1        | 0         | QPSK   | 22.66  | 22.77  | 22.76   | 20.62     | 0.1153  |
| 3                                                        | 1        | 0         | 16-QAM | 21.32  | 21.32  | 21.36   | 19.21     | 0.0834  |
| 3                                                        | 1        | 0         | 64-QAM | 20.85  | 20.25  | 20.33   | 18.70     | 0.0741  |
| Limit                                                    | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0 dB) |          |           |        |        |        |         |           |         |
|----------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                 | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4                                                      | 1        | 0         | QPSK   | 22.69  | 22.76  | 22.86   | 20.71     | 0.1178  |
| 1.4                                                      | 1        | 0         | 16-QAM | 21.32  | 21.32  | 21.63   | 19.48     | 0.0887  |
| 1.4                                                      | 1        | 0         | 64-QAM | 20.23  | 20.32  | 20.65   | 18.50     | 0.0708  |
| Limit                                                    | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                         | 1         | 0         | QPSK   | 23.44  | 23.46  | 23.26   | 24.16      | 0.2606   |
| 20                                                         | 1         | 99        |        | 23.39  | 23.21  | 23.13   |            |          |
| 20                                                         | 100       | 0         |        | 23.35  | 22.25  | 22.15   |            |          |
| 20                                                         | 1         | 0         | 16-QAM | 22.32  | 22.86  | 22.36   | 23.56      | 0.2270   |
| 20                                                         | 1         | 0         | 64-QAM | 21.36  | 21.58  | 21.52   | 22.28      | 0.1690   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                         | 1         | 0         | QPSK   | 23.44  | 23.36  | 23.21   | 24.14      | 0.2594   |
| 15                                                         | 1         | 0         | 16-QAM | 22.56  | 22.52  | 22.39   | 23.26      | 0.2118   |
| 15                                                         | 1         | 0         | 64-QAM | 21.36  | 21.23  | 21.82   | 22.52      | 0.1786   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                         | 1         | 0         | QPSK   | 23.13  | 23.25  | 23.13   | 23.95      | 0.2483   |
| 10                                                         | 1         | 0         | 16-QAM | 22.52  | 22.36  | 22.03   | 23.22      | 0.2099   |
| 10                                                         | 1         | 0         | 64-QAM | 21.63  | 21.32  | 21.29   | 22.33      | 0.1710   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                   | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                          | 1         | 0         | QPSK   | 23.36  | 23.26  | 23.13   | 24.06      | 0.2547   |
| 5                                                          | 1         | 0         | 16-QAM | 22.63  | 22.56  | 22.36   | 23.33      | 0.2153   |
| 5                                                          | 1         | 0         | 64-QAM | 21.58  | 21.63  | 21.36   | 22.33      | 0.1710   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                         | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                               | 1         | 0         | QPSK   | 25.35  | 25.32  | 24.85   | 26.05      | 0.4027   |
| 20                                                               | 1         | 99        |        | 25.03  | 25.09  | 24.87   |            |          |
| 20                                                               | 100       | 0         |        | 24.26  | 24.32  | 24.36   |            |          |
| 20                                                               | 1         | 0         | 16-QAM | 24.56  | 24.62  | 24.52   | 25.32      | 0.3404   |
| 20                                                               | 1         | 0         | 64-QAM | 23.69  | 23.58  | 23.55   | 24.39      | 0.2748   |
| Limit                                                            | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                         | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                               | 1         | 0         | QPSK   | 25.33  | 25.32  | 24.96   | 26.03      | 0.4009   |
| 15                                                               | 1         | 0         | 16-QAM | 24.69  | 24.44  | 24.32   | 25.39      | 0.3459   |
| 15                                                               | 1         | 0         | 64-QAM | 23.75  | 23.51  | 23.36   | 24.45      | 0.2786   |
| Limit                                                            | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                         | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                               | 1         | 0         | QPSK   | 25.35  | 25.33  | 24.96   | 26.05      | 0.4027   |
| 10                                                               | 1         | 0         | 16-QAM | 24.77  | 24.86  | 24.25   | 25.56      | 0.3597   |
| 10                                                               | 1         | 0         | 64-QAM | 23.63  | 23.63  | 23.25   | 24.33      | 0.2710   |
| Limit                                                            | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |        |        |        |         |            |          |
|------------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                         | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                                | 1         | 0         | QPSK   | 25.26  | 25.22  | 24.96   | 25.96      | 0.3945   |
| 5                                                                | 1         | 0         | 16-QAM | 24.32  | 24.23  | 24.32   | 25.02      | 0.3177   |
| 5                                                                | 1         | 0         | 64-QAM | 23.36  | 23.63  | 23.63   | 24.33      | 0.2710   |
| Limit                                                            | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 20                                                          | 1         | 0         | QPSK   | 22.99  | 22.76  | 22.63   | 22.39      | 0.1734   |
| 20                                                          | 1         | 99        |        | 22.63  | 22.85  | 22.87   |            |          |
| 20                                                          | 100       | 0         |        | 21.56  | 21.96  | 21.79   |            |          |
| 20                                                          | 1         | 0         | 16-QAM | 22.32  | 21.65  | 21.60   | 21.72      | 0.1486   |
| 20                                                          | 1         | 0         | 64-QAM | 21.70  | 20.82  | 20.85   | 21.10      | 0.1288   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 15                                                          | 1         | 0         | QPSK   | 22.86  | 22.68  | 22.36   | 22.26      | 0.1683   |
| 15                                                          | 1         | 0         | 16-QAM | 22.12  | 22.06  | 21.89   | 21.52      | 0.1419   |
| 15                                                          | 1         | 0         | 64-QAM | 21.69  | 21.16  | 21.02   | 21.09      | 0.1285   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10                                                          | 1         | 0         | QPSK   | 22.78  | 22.75  | 22.52   | 22.18      | 0.1652   |
| 10                                                          | 1         | 0         | 16-QAM | 21.86  | 21.65  | 21.76   | 21.26      | 0.1337   |
| 10                                                          | 1         | 0         | 64-QAM | 20.85  | 20.63  | 20.56   | 20.25      | 0.1059   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 5                                                           | 1         | 0         | QPSK   | 22.85  | 22.77  | 22.72   | 22.25      | 0.1679   |
| 5                                                           | 1         | 0         | 16-QAM | 21.76  | 21.63  | 21.58   | 21.16      | 0.1306   |
| 5                                                           | 1         | 0         | 64-QAM | 20.65  | 20.71  | 20.36   | 20.11      | 0.1026   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 3                                                           | 1         | 0         | QPSK   | 22.77  | 22.63  | 22.76   | 22.17      | 0.1648   |
| 3                                                           | 1         | 0         | 16-QAM | 21.63  | 21.68  | 21.63   | 21.08      | 0.1282   |
| 3                                                           | 1         | 0         | 64-QAM | 20.73  | 20.32  | 20.58   | 20.13      | 0.1030   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |        |        |        |         |            |          |
|-------------------------------------------------------------|-----------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                    | RB Size   | RB Offset | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 1.4                                                         | 1         | 0         | QPSK   | 22.76  | 22.73  | 22.72   | 22.16      | 0.1644   |
| 1.4                                                         | 1         | 0         | 16-QAM | 21.32  | 21.58  | 21.54   | 20.98      | 0.1253   |
| 1.4                                                         | 1         | 0         | 64-QAM | 20.69  | 20.54  | 20.57   | 20.09      | 0.1021   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 20                                                          | 1        | 0         | QPSK   | 22.87  | 22.63  | 22.63   | 20.97     | 0.1250  |
| 20                                                          | 1        | 99        |        | 22.56  | 23.32  | 22.02   |           |         |
| 20                                                          | 100      | 0         |        | 21.58  | 21.96  | 21.63   |           |         |
| 20                                                          | 1        | 0         | 16-QAM | 21.32  | 21.36  | 21.97   | 19.62     | 0.0916  |
| 20                                                          | 1        | 0         | 64-QAM | 20.36  | 20.97  | 20.69   | 18.62     | 0.0728  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15                                                          | 1        | 0         | QPSK   | 22.44  | 22.74  | 22.77   | 20.42     | 0.1102  |
| 15                                                          | 1        | 0         | 16-QAM | 21.56  | 21.58  | 21.96   | 19.61     | 0.0914  |
| 15                                                          | 1        | 0         | 64-QAM | 20.96  | 20.74  | 20.58   | 18.61     | 0.0726  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | 22.36  | 22.82  | 22.86   | 20.51     | 0.1125  |
| 10                                                          | 1        | 0         | 16-QAM | 21.86  | 21.65  | 21.54   | 19.51     | 0.0893  |
| 10                                                          | 1        | 0         | 64-QAM | 20.66  | 20.69  | 20.38   | 18.34     | 0.0682  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.2 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5                                                           | 1        | 0         | QPSK   | 22.58  | 22.58  | 22.39   | 20.23     | 0.1054  |
| 5                                                           | 1        | 0         | 16-QAM | 21.52  | 21.63  | 21.85   | 19.50     | 0.0891  |
| 5                                                           | 1        | 0         | 64-QAM | 20.36  | 20.71  | 20.36   | 18.36     | 0.0685  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = -0.2 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   | 20.67  | 20.58  | 20.64   | 20.71     | 0.1178  |
| 10+10                                                          | 1        | 0         | 1       | 49        |        | 12.48  | 12.25  | 12.30   |           |         |
| 10+10                                                          | 1        | 49        | 1       | 0         |        | 22.50  | 23.06  | 22.57   |           |         |
| 10+10                                                          | 1        | 0         | 1       | 49        | 16-QAM | 13.21  | 12.64  | 12.10   | 20.01     | 0.1002  |
| 10+10                                                          | 1        | 49        | 1       | 0         |        | 21.93  | 22.36  | 21.65   |           |         |
| 10+10                                                          | 1        | 0         | 1       | 49        | 64-QAM | 12.36  | 12.43  | 12.46   | 18.79     | 0.0757  |
| 10+10                                                          | 1        | 49        | 1       | 0         |        | 20.71  | 20.83  | 21.14   |           |         |
| Limit                                                          | ERP < 7W |           |         |           |        | Result |        |         | Pass      |         |

| LTE Band 66B_CA Maximum Average Power [dBm] (GT - LC = -0.6 dB) |           |           |         |           |        |        |        |         |            |          |
|-----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                        | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                 | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 15+5                                                            | 75        | 0         | 25      | 0         | QPSK   | 22.98  | 22.24  | 22.13   | 22.38      | 0.1730   |
| 15+5                                                            | 1         | 0         | 1       | 24        |        | 22.15  | 22.19  | 22.13   |            |          |
| 15+5                                                            | 1         | 74        | 1       | 0         |        | 21.65  | 22.78  | 22.65   |            |          |
| 15+5                                                            | 1         | 0         | 1       | 24        | 16-QAM | 22.50  | 22.10  | 22.16   | 22.17      | 0.1648   |
| 15+5                                                            | 1         | 74        | 1       | 0         |        | 22.51  | 22.77  | 22.57   |            |          |
| 15+5                                                            | 1         | 0         | 1       | 24        | 64-QAM | 22.44  | 22.13  | 22.56   | 21.96      | 0.1570   |
| 15+5                                                            | 1         | 74        | 1       | 0         |        | 22.31  | 22.50  | 22.26   |            |          |
| Limit                                                           | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |

| LTE Band 66C_CA Maximum Average Power [dBm] (GT - LC = -0.6 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   | 20.51  | 20.31  | 20.43   | 22.05      | 0.1603   |
| 20+20                                                           | 1         | 0         | 1       | 99        |        | 13.74  | 13.42  | 13.52   |            |          |
| 20+20                                                           | 1         | 99        | 1       | 0         |        | 22.36  | 22.65  | 22.47   |            |          |
| 20+20                                                           | 1         | 0         | 1       | 99        | 16-QAM | 14.13  | 14.10  | 13.48   | 21.29      | 0.1346   |
| 20+20                                                           | 1         | 99        | 1       | 0         |        | 21.32  | 21.89  | 21.41   |            |          |
| 20+20                                                           | 1         | 0         | 1       | 99        | 64-QAM | 14.48  | 13.87  | 14.19   | 20.52      | 0.1127   |
| 20+20                                                           | 1         | 99        | 1       | 0         |        | 20.69  | 20.88  | 21.12   |            |          |
| Limit                                                           | EIRP < 1W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.6 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   | 21.86  | 21.85  | 22.13   | 24.55      | 0.2851   |
| 20+20                                                         | 1         | 0         | 1       | 99        |        | 15.12  | 14.96  | 15.03   |            |          |
| 20+20                                                         | 1         | 99        | 1       | 0         |        | 23.91  | 23.79  | 23.95   |            |          |
| 20+20                                                         | 1         | 0         | 1       | 99        | 16-QAM | 15.32  | 15.55  | 15.65   | 24.26      | 0.2667   |
| 20+20                                                         | 1         | 99        | 1       | 0         |        | 23.66  | 23.26  | 23.36   |            |          |
| 20+20                                                         | 1         | 0         | 1       | 99        | 64-QAM | 15.13  | 15.12  | 15.52   | 22.82      | 0.1914   |
| 20+20                                                         | 1         | 99        | 1       | 0         |        | 22.21  | 22.03  | 22.22   |            |          |
| 20+15                                                         | 100       | 0         | 75      | 0         | QPSK   | 20.40  | 20.23  | 20.37   | 22.98      | 0.1986   |
| 20+15                                                         | 1         | 0         | 1       | 74        |        | 13.93  | 13.36  | 13.81   |            |          |
| 20+15                                                         | 1         | 99        | 1       | 0         |        | 22.36  | 22.38  | 22.13   |            |          |
| 20+15                                                         | 1         | 0         | 1       | 74        | 16-QAM | 14.26  | 13.96  | 13.64   | 22.80      | 0.1905   |
| 20+15                                                         | 1         | 99        | 1       | 0         |        | 22.20  | 21.80  | 21.83   |            |          |
| 15+20                                                         | 75        | 0         | 100     | 0         | QPSK   | 20.41  | 20.34  | 20.33   | 23.96      | 0.2489   |
| 15+20                                                         | 1         | 0         | 1       | 99        |        | 13.46  | 13.05  | 13.75   |            |          |
| 15+20                                                         | 1         | 74        | 1       | 0         |        | 22.82  | 22.19  | 23.36   |            |          |
| 15+20                                                         | 1         | 0         | 1       | 99        | 16-QAM | 13.70  | 13.83  | 14.30   | 22.45      | 0.1758   |
| 15+20                                                         | 1         | 74        | 1       | 0         |        | 21.60  | 21.66  | 21.85   |            |          |
| Limit                                                         | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |

| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.6 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         | 75      | 0         | QPSK   | 20.34  | 20.22  | 20.31   | 22.99      | 0.1991   |
| 20+10                                                         | 1         | 0         | 1       | 74        |        | 13.71  | 13.70  | 13.76   |            |          |
| 20+10                                                         | 1         | 99        | 1       | 0         |        | 22.31  | 22.18  | 22.39   |            |          |
| 20+10                                                         | 1         | 0         | 1       | 74        | 16-QAM | 14.31  | 13.98  | 14.21   | 22.88      | 0.1941   |
| 20+10                                                         | 1         | 99        | 1       | 0         |        | 21.74  | 21.42  | 22.28   |            |          |
| 10+20                                                         | 75        | 0         | 100     | 0         | QPSK   | 20.31  | 20.24  | 20.12   | 22.95      | 0.1972   |
| 10+20                                                         | 1         | 0         | 1       | 99        |        | 13.58  | 13.70  | 13.71   |            |          |
| 10+20                                                         | 1         | 74        | 1       | 0         |        | 22.35  | 22.19  | 22.35   |            |          |
| 10+20                                                         | 1         | 0         | 1       | 99        | 16-QAM | 14.49  | 13.92  | 13.52   | 22.14      | 0.1637   |
| 10+20                                                         | 1         | 74        | 1       | 0         |        | 21.28  | 21.49  | 21.54   |            |          |
| 15+15                                                         | 75        | 0         | 100     | 0         | QPSK   | 20.35  | 20.24  | 20.30   | 22.96      | 0.1977   |
| 15+15                                                         | 1         | 0         | 1       | 99        |        | 13.64  | 13.67  | 13.67   |            |          |
| 15+15                                                         | 1         | 74        | 1       | 0         |        | 22.36  | 22.10  | 22.31   |            |          |
| 15+15                                                         | 1         | 0         | 1       | 99        | 16-QAM | 14.06  | 13.82  | 13.83   | 22.61      | 0.1824   |
| 15+15                                                         | 1         | 74        | 1       | 0         |        | 22.01  | 21.49  | 21.39   |            |          |
| Limit                                                         | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 7C_CA Maximum Average Power [dBm] (GT - LC = 0.6 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         | 100     | 0         | QPSK   | 20.34  | 20.15  | 20.31   | 22.91      | 0.1954   |
| 15+10                                                         | 1         | 0         | 1       | 99        |        | 13.80  | 20.32  | 13.94   |            |          |
| 15+10                                                         | 1         | 74        | 1       | 0         |        | 22.31  | 22.23  | 22.27   |            |          |
| 15+10                                                         | 1         | 0         | 1       | 99        | 16-QAM | 13.78  | 19.36  | 14.28   | 22.54      | 0.1795   |
| 15+10                                                         | 1         | 74        | 1       | 0         |        | 21.40  | 21.94  | 21.69   |            |          |
| Limit                                                         | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |

| LTE Band 38C_CA Maximum Average Power [dBm] (GT - LC = -0.1 dB) |           |           |         |           |        |        |        |         |            |          |
|-----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                        | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                 | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 20+20                                                           | 1         | 99        | 1       | 0         | QPSK   | 23.57  | 23.52  | 23.55   | 23.47      | 0.2223   |
| 20+20                                                           | 1         | 99        | 1       | 0         | 16-QAM | 22.58  | 22.49  | 22.44   | 22.48      | 0.1770   |
| 20+20                                                           | 1         | 99        | 1       | 0         | 64-QAM | 21.54  | 21.46  | 21.46   | 21.44      | 0.1393   |
| 15+15                                                           | 1         | 74        | 1       | 0         | QPSK   | 23.43  | -      | -       | 23.33      | 0.2153   |
| 15+15                                                           | 1         | 74        | 1       | 0         | 16-QAM | 22.57  | -      | -       | 22.47      | 0.1766   |
| Limit                                                           | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.7 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   | 21.59  | 21.19  | 21.31   | 24.33      | 0.2710   |
| 20+20                                                          | 1         | 0         | 1       | 99        |        | 15.03  | 14.42  | 14.62   |            |          |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 23.63  | 23.18  | 23.14   |            |          |
| 20+20                                                          | 1         | 0         | 1       | 99        | 16-QAM | 15.22  | 14.77  | 15.29   | 23.81      | 0.2404   |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 23.11  | 22.81  | 22.47   |            |          |
| 20+20                                                          | 1         | 0         | 1       | 99        | 64-QAM | 15.55  | 14.54  | 15.25   | 23.73      | 0.2360   |
| 20+20                                                          | 1         | 99        | 1       | 0         |        | 23.03  | 21.63  | 21.58   |            |          |
| 20+15                                                          | 100       | 0         | 75      | 0         | QPSK   | 21.49  | 21.13  | 21.16   | 24.21      | 0.2636   |
| 20+15                                                          | 1         | 0         | 1       | 74        |        | 14.88  | 14.47  | 14.72   |            |          |
| 20+15                                                          | 1         | 99        | 1       | 0         |        | 23.51  | 23.22  | 22.96   |            |          |
| 20+15                                                          | 1         | 0         | 1       | 74        | 16-QAM | 15.44  | 15.09  | 14.88   | 23.79      | 0.2393   |
| 20+15                                                          | 1         | 99        | 1       | 0         |        | 23.09  | 22.97  | 22.82   |            |          |
| 15+20                                                          | 75        | 0         | 100     | 0         | QPSK   | 21.48  | 21.28  | 21.08   | 24.03      | 0.2529   |
| 15+20                                                          | 1         | 0         | 1       | 99        |        | 14.79  | 14.59  | 14.57   |            |          |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 22.41  | 23.33  | 23.01   |            |          |
| 15+20                                                          | 1         | 0         | 1       | 99        | 16-QAM | 15.38  | 15.28  | 14.64   | 23.51      | 0.2244   |
| 15+20                                                          | 1         | 74        | 1       | 0         |        | 22.39  | 22.81  | 22.55   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |

| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.7 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   | 21.41  | 21.14  | 21.11   | 24.20      | 0.2630   |
| 20+10                                                          | 1         | 0         | 1       | 49        |        | 14.89  | 14.55  | 14.78   |            |          |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 23.50  | 23.32  | 22.95   |            |          |
| 20+10                                                          | 1         | 0         | 1       | 49        | 16-QAM | 15.44  | 15.17  | 15.14   | 23.96      | 0.2489   |
| 20+10                                                          | 1         | 99        | 1       | 0         |        | 23.26  | 22.61  | 22.24   |            |          |
| 10+20                                                          | 50        | 0         | 100     | 0         | QPSK   | 21.32  | 21.17  | 21.10   | 24.25      | 0.2661   |
| 10+20                                                          | 1         | 0         | 1       | 99        |        | 14.85  | 14.45  | 14.61   |            |          |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 23.55  | 23.12  | 23.06   |            |          |
| 10+20                                                          | 1         | 0         | 1       | 99        | 16-QAM | 15.36  | 14.94  | 15.24   | 24.08      | 0.2559   |
| 10+20                                                          | 1         | 49        | 1       | 0         |        | 23.38  | 22.67  | 22.68   |            |          |
| 20+5                                                           | 100       | 0         | 25      | 0         | QPSK   | 21.54  | 21.21  | 20.99   | 23.92      | 0.2466   |
| 20+5                                                           | 1         | 0         | 1       | 24        |        | 14.98  | 14.62  | 14.67   |            |          |
| 20+5                                                           | 1         | 99        | 1       | 0         |        | 22.68  | 23.22  | 22.72   |            |          |
| 20+5                                                           | 1         | 0         | 1       | 24        | 16-QAM | 15.47  | 15.32  | 15.41   | 23.89      | 0.2449   |
| 20+5                                                           | 1         | 99        | 1       | 0         |        | 23.19  | 22.79  | 22.56   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.7 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   | 21.47  | 21.18  | 21.06   | 23.34      | 0.2158   |
| 5+20                                                           | 1         | 0         | 1       | 99        |        | 14.82  | 14.47  | 14.61   |            |          |
| 5+20                                                           | 1         | 24        | 1       | 0         |        | 22.13  | 22.64  | 22.58   |            |          |
| 5+20                                                           | 1         | 0         | 1       | 99        | 16-QAM | 22.86  | 15.05  | 15.07   | 23.56      | 0.2270   |
| 5+20                                                           | 1         | 24        | 1       | 0         |        | 22.51  | 22.39  | 22.29   |            |          |
| 15+10                                                          | 75        | 0         | 50      | 0         | QPSK   | 21.44  | 21.11  | 20.99   | 24.29      | 0.2685   |
| 15+10                                                          | 1         | 0         | 1       | 49        |        | 14.85  | 14.52  | 14.71   |            |          |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 23.59  | 23.09  | 22.88   |            |          |
| 15+10                                                          | 1         | 0         | 1       | 49        | 16-QAM | 15.36  | 15.05  | 15.32   | 23.78      | 0.2388   |
| 15+10                                                          | 1         | 74        | 1       | 0         |        | 23.08  | 22.64  | 21.83   |            |          |
| 10+15                                                          | 50        | 0         | 75      | 0         | QPSK   | 21.41  | 21.16  | 21.11   | 24.15      | 0.2600   |
| 10+15                                                          | 1         | 0         | 1       | 74        |        | 14.87  | 14.64  | 14.57   |            |          |
| 10+15                                                          | 1         | 49        | 1       | 0         |        | 23.45  | 23.25  | 23.02   |            |          |
| 10+15                                                          | 1         | 0         | 1       | 74        | 16-QAM | 15.28  | 14.95  | 14.90   | 23.83      | 0.2415   |
| 10+15                                                          | 1         | 49        | 1       | 0         |        | 23.13  | 22.44  | 22.59   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |

| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 0.7 dB) |           |           |         |           |        |        |        |         |            |          |
|----------------------------------------------------------------|-----------|-----------|---------|-----------|--------|--------|--------|---------|------------|----------|
| BW [MHz]                                                       | PCC       |           | SCC     |           | Mod    | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
|                                                                | RB Size   | RB Offset | RB Size | RB Offset |        |        |        |         |            |          |
| 15+15                                                          | 75        | 0         | 75      | 0         | QPSK   | 20.76  | 21.08  | 21.07   | 24.16      | 0.2606   |
| 15+15                                                          | 1         | 0         | 1       | 74        |        | 14.88  | 14.43  | 14.61   |            |          |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 23.46  | 23.26  | 22.97   |            |          |
| 15+15                                                          | 1         | 0         | 1       | 74        | 16-QAM | 15.36  | 14.96  | 14.78   | 23.81      | 0.2404   |
| 15+15                                                          | 1         | 74        | 1       | 0         |        | 23.11  | 22.61  | 22.47   |            |          |
| Limit                                                          | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



## Appendix B. Test Results of Radiated Test

LTE Band 5B

| LTE Band 5B / 10MHz+10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                          | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                           | 1667                 | -58.99         | -13              | -45.99                  | -69.68                  | -62.54                   | 3.90                       | 9.60                        | H                     |
|                                  | 2500                 | -56.49         | -13              | -43.49                  | -71.21                  | -60.11                   | 4.83                       | 10.60                       | H                     |
|                                  | 3334                 | -57.96         | -13              | -44.96                  | -74.78                  | -62.56                   | 5.59                       | 12.34                       | H                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                  | 1667                 | -55.03         | -13              | -42.03                  | -65.84                  | -58.58                   | 3.90                       | 9.60                        | V                     |
|                                  | 2500                 | -54.93         | -13              | -41.93                  | -70.08                  | -58.55                   | 4.83                       | 10.60                       | V                     |
|                                  | 3334                 | -57.29         | -13              | -44.29                  | -74.61                  | -61.89                   | 5.59                       | 12.34                       | V                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                           | 1672                 | -59.16         | -13              | -46.16                  | -69.89                  | -62.73                   | 3.91                       | 9.63                        | H                     |
|                                  | 2508                 | -55.13         | -13              | -42.13                  | -69.87                  | -58.79                   | 4.84                       | 10.65                       | H                     |
|                                  | 3344                 | -57.98         | -13              | -44.98                  | -74.8                   | -62.61                   | 5.60                       | 12.38                       | H                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                  | 1672                 | -55.56         | -13              | -42.56                  | -66.41                  | -59.13                   | 3.91                       | 9.63                        | V                     |
|                                  | 2508                 | -52.90         | -13              | -39.90                  | -68.03                  | -56.56                   | 4.84                       | 10.65                       | V                     |
|                                  | 3344                 | -57.49         | -13              | -44.49                  | -74.81                  | -62.12                   | 5.60                       | 12.38                       | V                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                  |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1677 | -58.14 | -13 | -45.14 | -68.91 | -61.74 | 3.92 | 9.66  | H |
|         | 2516 | -54.65 | -13 | -41.65 | -69.39 | -58.35 | 4.84 | 10.70 | H |
|         | 3354 | -57.68 | -13 | -44.68 | -74.48 | -62.33 | 5.61 | 12.41 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 1677 | -54.87 | -13 | -41.87 | -65.76 | -58.47 | 3.92 | 9.66  | V |
|         | 2516 | -53.69 | -13 | -40.69 | -68.82 | -57.39 | 4.84 | 10.70 | V |
|         | 3354 | -57.36 | -13 | -44.36 | -74.67 | -62.01 | 5.61 | 12.41 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 7**

| LTE Band 7 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 5002                 | -52.73          | -25              | -27.73                  | -75.43                  | -64                      | 0.94                       | 12.20                       | H                     |
|                           | 7503                 | -47.34          | -25              | -22.34                  | -77.38                  | -56.57                   | 1.18                       | 10.41                       | H                     |
|                           | 10004                | -42.28          | -25              | -17.28                  | -77.02                  | -53.01                   | 1.37                       | 12.09                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5002                 | -52.89          | -25              | -27.89                  | -75.63                  | -64.16                   | 0.94                       | 12.20                       | V                     |
|                           | 7503                 | -46.85          | -25              | -21.85                  | -76.84                  | -56.08                   | 1.18                       | 10.41                       | V                     |
|                           | 10004                | -43.35          | -25              | -18.35                  | -77.16                  | -54.08                   | 1.37                       | 12.09                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 5052                 | -52.83          | -25              | -27.83                  | -75.67                  | -64.18                   | 0.95                       | 12.30                       | H                     |
|                           | 7578                 | -47.36          | -25              | -22.36                  | -76.92                  | -56.8                    | 1.18                       | 10.62                       | H                     |
|                           | 10104                | -42.76          | -25              | -17.76                  | -77.36                  | -53.29                   | 1.38                       | 11.90                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5052                 | -52.04          | -25              | -27.04                  | -74.92                  | -63.39                   | 0.95                       | 12.30                       | V                     |
|                           | 7578                 | -47.09          | -25              | -22.09                  | -77.2                   | -56.53                   | 1.18                       | 10.62                       | V                     |
|                           | 10104                | -43.53          | -25              | -18.53                  | -77.34                  | -54.06                   | 1.38                       | 11.90                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |      |       |   |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 5102  | -52.23 | -25 | -27.23 | -75.24 | -63.67 | 0.96 | 12.40 | H |
|         | 7653  | -47.27 | -25 | -22.27 | -76.77 | -56.91 | 1.18 | 10.83 | H |
|         | 10204 | -42.50 | -25 | -17.50 | -76.97 | -52.83 | 1.39 | 11.71 | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         | 5102  | -52.30 | -25 | -27.30 | -75.33 | -63.74 | 0.96 | 12.40 | V |
|         | 7653  | -46.64 | -25 | -21.64 | -76.65 | -56.28 | 1.18 | 10.83 | V |
|         | 10204 | -43.36 | -25 | -18.36 | -77.17 | -53.69 | 1.39 | 11.71 | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 12**

| LTE Band 12 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1399                 | -53.07         | -13.00           | -40.07                  | -63.51                  | -54.74                   | 3.57                       | 7.39                        | H                     |
|                            | 2098                 | -44.82         | -13.00           | -31.82                  | -58.72                  | -47.99                   | 4.40                       | 9.72                        | H                     |
|                            | 2798                 | -58.27         | -13.00           | -45.27                  | -74.37                  | -62.02                   | 5.10                       | 11.00                       | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1399                 | -55.60         | -13.00           | -42.60                  | -66.06                  | -57.27                   | 3.57                       | 7.39                        | V                     |
|                            | 2098                 | -42.74         | -13.00           | -29.74                  | -57.16                  | -45.91                   | 4.40                       | 9.72                        | V                     |
|                            | 2798                 | -57.82         | -13.00           | -44.82                  | -74.09                  | -61.57                   | 5.10                       | 11.00                       | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1406                 | -50.48         | -13.00           | -37.48                  | -60.95                  | -52.17                   | 3.58                       | 7.42                        | H                     |
|                            | 2109                 | -43.54         | -13.00           | -30.54                  | -57.56                  | -46.61                   | 4.41                       | 9.63                        | H                     |
|                            | 2812                 | -58.03         | -13.00           | -45.03                  | -74.17                  | -61.77                   | 5.11                       | 11.00                       | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1406                 | -53.74         | -13.00           | -40.74                  | -64.23                  | -55.43                   | 3.58                       | 7.42                        | V                     |
|                            | 2109                 | -40.75         | -13.00           | -27.75                  | -55.31                  | -43.82                   | 4.41                       | 9.63                        | V                     |
|                            | 2812                 | -57.97         | -13.00           | -44.97                  | -74.26                  | -61.71                   | 5.11                       | 11.00                       | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |       |   |
|---------|------|--------|--------|--------|--------|--------|------|-------|---|
| Highest | 1413 | -52.87 | -13.00 | -39.87 | -63.36 | -54.58 | 3.59 | 7.45  | H |
|         | 2119 | -44.83 | -13.00 | -31.83 | -58.97 | -47.81 | 4.42 | 9.55  | H |
|         | 2826 | -57.90 | -13.00 | -44.90 | -74.04 | -61.63 | 5.12 | 11.00 | H |
|         |      |        |        |        |        |        |      |       | H |
|         |      |        |        |        |        |        |      |       | H |
|         | 1413 | -54.66 | -13.00 | -41.66 | -65.18 | -56.37 | 3.59 | 7.45  | V |
|         | 2119 | -40.37 | -13.00 | -27.37 | -55.06 | -43.35 | 4.42 | 9.55  | V |
|         | 2826 | -58.25 | -13.00 | -45.25 | -74.55 | -61.98 | 5.12 | 11.00 | V |
|         |      |        |        |        |        |        |      |       | V |
|         |      |        |        |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 13**

| LTE Band 13 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1554                 | -62.89         | -13              | -49.89                  | -73.47                  | -65.80                   | 3.77                       | 8.83                        | H                     |
|                           | 2332                 | -53.50         | -13              | -40.50                  | -68.44                  | -56.43                   | 4.65                       | 9.73                        | H                     |
|                           | 3109                 | -58.65         | -13              | -45.65                  | -75.41                  | -62.42                   | 5.38                       | 11.30                       | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1554                 | -62.15         | -13.00           | -49.15                  | -72.85                  | -65.06                   | 3.77                       | 8.83                        | V                     |
|                           | 2332                 | -57.20         | -13              | -44.20                  | -72.43                  | -60.13                   | 4.65                       | 9.73                        | V                     |
|                           | 3109                 | -58.55         | -13              | -45.55                  | -75.51                  | -62.32                   | 5.38                       | 11.30                       | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 1559                 | -62.78         | -42.15           | -20.63                  | -73.35                  | -65.72                   | 3.78                       | 8.87                        | H                     |
|                           | 2339                 | -58.48         | -13              | -45.48                  | -73.41                  | -61.43                   | 4.66                       | 9.76                        | H                     |
|                           | 3119                 | -58.61         | -13              | -45.61                  | -75.39                  | -62.37                   | 5.39                       | 11.30                       | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1559                 | -62.57         | -42.15           | -20.42                  | -73.25                  | -65.51                   | 3.78                       | 8.87                        | V                     |
|                           | 2339                 | -58.59         | -13              | -45.59                  | -73.79                  | -61.54                   | 4.66                       | 9.76                        | V                     |
|                           | 3119                 | -58.04         | -13              | -45.04                  | -75.04                  | -61.80                   | 5.39                       | 11.30                       | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |       |   |
|---------|------|--------|--------|--------|--------|--------|------|-------|---|
| Highest | 1564 | -62.76 | -42.15 | -20.61 | -73.31 | -65.74 | 3.78 | 8.91  | H |
|         | 2347 | -53.34 | -13    | -40.34 | -68.26 | -56.31 | 4.66 | 9.79  | H |
|         | 3129 | -58.88 | -13    | -45.88 | -75.68 | -62.63 | 5.40 | 11.30 | H |
|         |      |        |        |        |        |        |      |       | H |
|         |      |        |        |        |        |        |      |       | H |
|         | 1564 | -62.77 | -42.15 | -20.62 | -73.44 | -65.75 | 3.78 | 8.91  | V |
|         | 2347 | -54.22 | -13    | -41.22 | -69.39 | -57.19 | 4.66 | 9.79  | V |
|         | 3129 | -58.78 | -13    | -45.78 | -75.83 | -62.53 | 5.40 | 11.30 | V |
|         |      |        |        |        |        |        |      |       | V |
|         |      |        |        |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 13 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Middle                     | 1555                 | -62.69         | -13              | -49.69                  | -73.28                  | -65.61                   | 3.77                       | 8.84                        | H                     |
|                            | 2332                 | -53.87         | -13              | -40.87                  | -68.81                  | -56.8                    | 4.65                       | 9.73                        | H                     |
|                            | 3110                 | -58.45         | -13              | -45.45                  | -75.22                  | -62.22                   | 5.38                       | 11.30                       | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1555                 | -62.46         | -13              | -49.46                  | -73.17                  | -65.38                   | 3.77                       | 8.84                        | V                     |
|                            | 2332                 | -56.14         | -13              | -43.14                  | -71.37                  | -59.07                   | 4.65                       | 9.73                        | V                     |
|                            | 3110                 | -58.44         | -13              | -45.44                  | -75.4                   | -62.21                   | 5.38                       | 11.30                       | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 25**

| LTE Band 25/ 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3702                 | -53.27          | -13              | -40.27                  | -72.41                  | -59.64                   | 5.93                       | 12.30                       | H                     |
|                           | 5553                 | -52.59          | -13              | -39.59                  | -76.81                  | -58.15                   | 7.74                       | 13.31                       | H                     |
|                           | 7404                 | -46.72          | -13              | -33.72                  | -77.27                  | -49.2                    | 8.72                       | 11.20                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3702                 | -53.80          | -13              | -40.80                  | -72.99                  | -60.17                   | 5.93                       | 12.30                       | V                     |
|                           | 5553                 | -52.53          | -13              | -39.53                  | -77.06                  | -58.09                   | 7.74                       | 13.31                       | V                     |
|                           | 7404                 | -46.57          | -13              | -33.57                  | -77.03                  | -49.05                   | 8.72                       | 11.20                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3742                 | -49.98          | -13              | -36.98                  | -69.2                   | -56.32                   | 5.96                       | 12.30                       | H                     |
|                           | 5613                 | -52.74          | -13              | -39.74                  | -76.82                  | -58.37                   | 7.79                       | 13.43                       | H                     |
|                           | 7484                 | -46.99          | -13              | -33.99                  | -77.14                  | -49.44                   | 8.75                       | 11.20                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3742                 | -49.98          | -13              | -36.98                  | -69.29                  | -56.32                   | 5.96                       | 12.30                       | V                     |
|                           | 5613                 | -52.02          | -13              | -39.02                  | -76.57                  | -57.65                   | 7.79                       | 13.43                       | V                     |
|                           | 7484                 | -46.81          | -13              | -33.81                  | -76.88                  | -49.26                   | 8.75                       | 11.20                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3792 | -39.63 | -13 | -26.63 | -58.95 | -45.92 | 6.01 | 12.30 | H |
|         | 5688 | -48.24 | -13 | -35.24 | -72.52 | -53.89 | 7.85 | 13.50 | H |
|         | 7584 | -46.40 | -13 | -33.40 | -75.92 | -49.14 | 8.80 | 11.54 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3792 | -41.82 | -13 | -28.82 | -61.28 | -48.11 | 6.01 | 12.30 | V |
|         | 5688 | -45.66 | -13 | -32.66 | -70.39 | -51.31 | 7.85 | 13.50 | V |
|         | 7584 | -46.07 | -13 | -33.07 | -76.19 | -48.81 | 8.80 | 11.54 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 26**

| LTE Band 26 / 15MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1649                 | -57.95         | -13              | -44.95                  | -68.48                  | -64.90                   | 0.53                       | 9.63                        | H                     |
|                            | 2474                 | -58.97         | -13              | -45.97                  | -73.72                  | -66.95                   | 0.65                       | 10.78                       | H                     |
|                            | 3299                 | -57.99         | -13              | -44.99                  | -74.83                  | -67.08                   | 0.76                       | 12.00                       | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1649                 | -54.46         | -13              | -41.46                  | -65.12                  | -61.41                   | 0.53                       | 9.63                        | V                     |
|                            | 2474                 | -58.53         | -13              | -45.53                  | -73.63                  | -66.51                   | 0.65                       | 10.78                       | V                     |
|                            | 3299                 | -57.17         | -13              | -44.17                  | -74.49                  | -66.26                   | 0.76                       | 12.00                       | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1648                 | -55.96         | -13              | -42.96                  | -61.71                  | -62.91                   | 0.53                       | 9.63                        | H                     |
|                            | 2489                 | -58.93         | -13              | -45.93                  | -74.07                  | -66.92                   | 0.65                       | 10.79                       | H                     |
|                            | 3319                 | -57.60         | -13              | -44.60                  | -74.92                  | -66.75                   | 0.76                       | 12.06                       | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1648                 | -50.98         | -13              | -37.98                  | -61.71                  | -57.93                   | 0.53                       | 9.63                        | V                     |
|                            | 2489                 | -58.93         | -13              | -45.93                  | -74.07                  | -66.92                   | 0.65                       | 10.79                       | V                     |
|                            | 3319                 | -57.60         | -13              | -44.60                  | -74.92                  | -66.75                   | 0.76                       | 12.06                       | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1669 | -55.49 | -13 | -42.49 | -66.21 | -62.48 | 0.53 | 9.67  | H |
|         | 2504 | -59.12 | -13 | -46.12 | -73.85 | -67.12 | 0.66 | 10.80 | H |
|         | 3339 | -57.92 | -13 | -44.92 | -74.75 | -67.12 | 0.76 | 12.12 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 1669 | -51.99 | -13 | -38.99 | -62.83 | -58.98 | 0.53 | 9.67  | V |
|         | 2504 | -58.73 | -13 | -45.73 | -73.88 | -66.73 | 0.66 | 10.80 | V |
|         | 3339 | -57.29 | -13 | -44.29 | -74.62 | -66.49 | 0.76 | 12.12 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 41 HPUE**

| LTE Band 41 HPUE / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                         | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                          | 4994                 | -53.19          | -25              | -28.19                  | -75.89                  | -58.42                   | 7.48                       | 12.71                       | H                     |
|                                 | 7491                 | -47.29          | -25              | -22.29                  | -77.4                   | -49.73                   | 8.76                       | 11.20                       | H                     |
|                                 | 9988                 | -41.80          | -25              | -16.80                  | -76.49                  | -42.87                   | 10.01                      | 11.08                       | H                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                 | 4994                 | -51.07          | -25              | -26.07                  | -73.83                  | -56.3                    | 7.48                       | 12.71                       | V                     |
|                                 | 7491                 | -47.15          | -25              | -22.15                  | -77.19                  | -49.59                   | 8.76                       | 11.20                       | V                     |
|                                 | 9988                 | -43.13          | -25              | -18.13                  | -76.91                  | -44.2                    | 10.01                      | 11.08                       | V                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                          | 5168                 | -47.83          | -25              | -22.83                  | -71.04                  | -52.91                   | 7.56                       | 12.64                       | H                     |
|                                 | 7752                 | -46.78          | -25              | -21.78                  | -76.42                  | -49.71                   | 8.88                       | 11.80                       | H                     |
|                                 | 10336                | -42.57          | -25              | -17.57                  | -76.86                  | -43.28                   | 10.29                      | 10.99                       | H                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                 | 5168                 | -47.67          | -25              | -22.67                  | -70.88                  | -52.75                   | 7.56                       | 12.64                       | V                     |
|                                 | 7752                 | -46.85          | -25              | -21.85                  | -76.59                  | -49.78                   | 8.88                       | 11.80                       | V                     |
|                                 | 10336                | -43.40          | -25              | -18.40                  | -77.21                  | -44.11                   | 10.29                      | 10.99                       | V                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                 |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |       |       |   |
|---------|-------|--------|-----|--------|--------|--------|-------|-------|---|
| Highest | 5342  | -43.58 | -25 | -18.58 | -67.73 | -49.51 | 7.63  | 13.57 | H |
|         | 8013  | -43.84 | -25 | -18.84 | -74.01 | -46.12 | 9.00  | 11.27 | H |
|         | 10684 | -43.17 | -25 | -18.17 | -77.34 | -43.6  | 10.49 | 10.92 | H |
|         |       |        |     |        |        |        |       |       | H |
|         |       |        |     |        |        |        |       |       | H |
|         | 5342  | -41.35 | -25 | -16.35 | -65.4  | -47.28 | 7.63  | 13.57 | V |
|         | 8013  | -43.86 | -25 | -18.86 | -74.05 | -46.14 | 9.00  | 11.27 | V |
|         | 10684 | -42.95 | -25 | -17.95 | -76.97 | -43.38 | 10.49 | 10.92 | V |
|         |       |        |     |        |        |        |       |       | V |
|         |       |        |     |        |        |        |       |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 66**

| LTE Band 66 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 3422                 | -55.46          | -13              | -42.46                  | -73.26                  | -62.29                   | 5.67                       | 12.50                       | H                     |
|                            | 5133                 | -54.44          | -13              | -41.44                  | -76.91                  | -59.36                   | 7.55                       | 12.47                       | H                     |
|                            | 6844                 | -48.86          | -13              | -35.86                  | -77.4                   | -52.63                   | 8.44                       | 12.21                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3422                 | -53.16          | -13              | -40.16                  | -71.44                  | -59.99                   | 5.67                       | 12.50                       | V                     |
|                            | 5133                 | -54.30          | -13              | -41.30                  | -76.78                  | -59.22                   | 7.55                       | 12.47                       | V                     |
|                            | 6844                 | -49.04          | -13              | -36.04                  | -77.53                  | -52.81                   | 8.44                       | 12.21                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 3472                 | -55.65          | -13              | -42.65                  | -73.88                  | -62.39                   | 5.71                       | 12.46                       | H                     |
|                            | 5208                 | -54.52          | -13              | -41.52                  | -77.28                  | -59.89                   | 7.58                       | 12.95                       | H                     |
|                            | 6944                 | -49.47          | -13              | -36.47                  | -77.56                  | -52.87                   | 8.51                       | 11.91                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3472                 | -53.68          | -13              | -40.68                  | -72.28                  | -60.42                   | 5.71                       | 12.46                       | V                     |
|                            | 5208                 | -54.86          | -13              | -41.86                  | -77.6                   | -60.23                   | 7.58                       | 12.95                       | V                     |
|                            | 6944                 | -48.79          | -13              | -35.79                  | -77.62                  | -52.19                   | 8.51                       | 11.91                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3522 | -57.15 | -13 | -44.15 | -75.6  | -63.66 | 5.76 | 12.27 | H |
|         | 5283 | -54.20 | -13 | -41.20 | -77.43 | -59.92 | 7.61 | 13.33 | H |
|         | 7044 | -48.54 | -13 | -35.54 | -76.74 | -51.61 | 8.57 | 11.64 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3522 | -54.71 | -13 | -41.71 | -73.4  | -61.22 | 5.76 | 12.27 | V |
|         | 5283 | -54.63 | -13 | -41.63 | -77.8  | -60.35 | 7.61 | 13.33 | V |
|         | 7044 | -47.83 | -13 | -34.83 | -77    | -50.90 | 8.57 | 11.64 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 71**

| LTE Band 71 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1328                 | -59.20          | -13              | -46.20                  | -69.43                  | -62.58                   | 3.47                       | 6.86                        | H                     |
|                            | 1992                 | -51.77          | -13              | -38.77                  | -64.46                  | -57.69                   | 4.28                       | 10.20                       | H                     |
|                            | 2656                 | -58.98          | -13              | -45.98                  | -74.24                  | -64.81                   | 4.97                       | 10.80                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1328                 | -59.54          | -13              | -46.54                  | -69.78                  | -62.92                   | 3.47                       | 6.86                        | V                     |
|                            | 1992                 | -52.37          | -13              | -39.37                  | -65.44                  | -58.29                   | 4.28                       | 10.20                       | V                     |
|                            | 2656                 | -59.01          | -13              | -46.01                  | -74.36                  | -64.84                   | 4.97                       | 10.80                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1348                 | -56.22          | -13              | -43.22                  | -66.51                  | -59.62                   | 3.50                       | 6.90                        | H                     |
|                            | 2022                 | -52.76          | -13              | -39.76                  | -65.77                  | -58.65                   | 4.31                       | 10.20                       | H                     |
|                            | 2696                 | -58.80          | -13              | -45.80                  | -74.3                   | -64.59                   | 5.01                       | 10.80                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1348                 | -59.41          | -13              | -46.41                  | -69.71                  | -62.81                   | 3.50                       | 6.90                        | V                     |
|                            | 2022                 | -49.74          | -13              | -36.74                  | -63.17                  | -55.63                   | 4.31                       | 10.20                       | V                     |
|                            | 2696                 | -58.91          | -13              | -45.91                  | -74.52                  | -64.70                   | 5.01                       | 10.80                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 1358 | -55.86 | -13 | -42.86 | -66.18 | -59.33 | 3.51 | 6.98  | H |
|         | 2037 | -55.11 | -13 | -42.11 | -68.29 | -60.98 | 4.33 | 10.20 | H |
|         | 2716 | -58.73 | -13 | -45.73 | -74.34 | -64.54 | 5.02 | 10.83 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 1358 | -56.01 | -13 | -43.01 | -66.34 | -59.48 | 3.51 | 6.98  | V |
|         | 2037 | -51.98 | -13 | -38.98 | -65.6  | -57.85 | 4.33 | 10.20 | V |
|         | 2716 | -58.56 | -13 | -45.56 | -74.29 | -64.37 | 5.02 | 10.83 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE CA Band 7C**

| LTE Band CA Band 7C / 20MHz+20MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                  | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                                   | 5040                 | -54.70         | -25              | -29.70                  | -76.84                  | -59.81                   | 7.51                       | 12.62                       | H                     |
|                                          | 7560                 | -48.19         | -25              | -23.19                  | -77.78                  | -50.84                   | 8.79                       | 11.44                       | H                     |
|                                          | 10080                | -43.81         | -25              | -18.81                  | -77.98                  | -44.99                   | 10.08                      | 11.26                       | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          | 5040                 | -53.82         | -25              | -28.82                  | -76                     | -58.93                   | 7.51                       | 12.62                       | V                     |
|                                          | 7560                 | -47.82         | -25              | -22.82                  | -77.82                  | -50.47                   | 8.79                       | 11.44                       | V                     |
|                                          | 10080                | -44.14         | -25              | -19.14                  | -77.48                  | -45.32                   | 10.08                      | 11.26                       | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                                   | 5070                 | -53.97         | -25              | -28.97                  | -76.2                   | -58.97                   | 7.52                       | 12.52                       | H                     |
|                                          | 7602                 | -48.29         | -25              | -23.29                  | -77.62                  | -51.09                   | 8.81                       | 11.60                       | H                     |
|                                          | 10134                | -43.59         | -25              | -18.59                  | -77.74                  | -44.77                   | 10.12                      | 11.30                       | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          | 5070                 | -53.25         | -25              | -28.25                  | -75.51                  | -58.25                   | 7.52                       | 12.52                       | V                     |
|                                          | 7602                 | -47.61         | -25              | -22.61                  | -77.66                  | -50.41                   | 8.81                       | 11.60                       | V                     |
|                                          | 10134                | -44.00         | -25              | -19.00                  | -77.39                  | -45.18                   | 10.12                      | 11.30                       | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |       |       |   |
|---------|-------|--------|-----|--------|--------|--------|-------|-------|---|
| Highest | 5100  | -54.28 | -25 | -29.28 | -76.63 | -59.15 | 7.53  | 12.40 | H |
|         | 7650  | -48.24 | -25 | -23.24 | -77.62 | -51.11 | 8.83  | 11.70 | H |
|         | 10200 | -43.69 | -25 | -18.69 | -77.83 | -44.82 | 10.17 | 11.30 | H |
|         |       |        |     |        |        |        |       |       | H |
|         |       |        |     |        |        |        |       |       | H |
|         | 5100  | -54.19 | -25 | -29.19 | -76.55 | -59.06 | 7.53  | 12.40 | V |
|         | 7650  | -47.78 | -25 | -22.78 | -77.69 | -50.65 | 8.83  | 11.70 | V |
|         | 10200 | -44.22 | -25 | -19.22 | -77.69 | -45.35 | 10.17 | 11.30 | V |
|         |       |        |     |        |        |        |       |       | V |
|         |       |        |     |        |        |        |       |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE CA Band 41C**

| LTE Band CA Band 41C / 20MHz+20MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                                    | 5028                 | -54.78         | -25              | -29.78                  | -76.87                  | -59.92                   | 7.50                       | 12.64                       | H                     |
|                                           | 7548                 | -47.41         | -25              | -22.41                  | -77.07                  | -50.02                   | 8.78                       | 11.39                       | H                     |
|                                           | 10062                | -43.95         | -25              | -18.95                  | -78.12                  | -45.11                   | 10.06                      | 11.22                       | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           | 5028                 | -54.43         | -25              | -29.43                  | -76.56                  | -59.57                   | 7.50                       | 12.64                       | V                     |
|                                           | 7548                 | -47.89         | -25              | -22.89                  | -77.87                  | -50.5                    | 8.78                       | 11.39                       | V                     |
|                                           | 10062                | -44.74         | -25              | -19.74                  | -78.06                  | -45.9                    | 10.06                      | 11.22                       | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                                    | 5184                 | -54.06         | -25              | -29.06                  | -76.71                  | -59.26                   | 7.57                       | 12.77                       | H                     |
|                                           | 7776                 | -47.65         | -25              | -22.65                  | -77.17                  | -50.62                   | 8.89                       | 11.85                       | H                     |
|                                           | 10368                | -43.63         | -25              | -18.63                  | -77.72                  | -44.21                   | 10.31                      | 10.90                       | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           | 5184                 | -51.92         | -25              | -26.92                  | -74.56                  | -57.12                   | 7.57                       | 12.77                       | V                     |
|                                           | 7776                 | -47.61         | -25              | -22.61                  | -77.14                  | -50.58                   | 8.89                       | 11.85                       | V                     |
|                                           | 10368                | -43.85         | -25              | -18.85                  | -77.5                   | -44.43                   | 10.31                      | 10.90                       | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |       |       |   |
|---------|-------|--------|-----|--------|--------|--------|-------|-------|---|
| Highest | 5340  | -49.70 | -25 | -24.70 | -73.29 | -55.63 | 7.63  | 13.56 | H |
|         | 8010  | -45.44 | -25 | -20.44 | -75.4  | -47.72 | 9.00  | 11.28 | H |
|         | 10674 | -43.32 | -25 | -18.32 | -77.38 | -43.76 | 10.49 | 10.93 | H |
|         |       |        |     |        |        |        |       |       | H |
|         |       |        |     |        |        |        |       |       | H |
|         | 5340  | -45.96 | -25 | -20.96 | -69.45 | -51.89 | 7.63  | 13.56 | V |
|         | 8010  | -46.19 | -25 | -21.19 | -76.16 | -48.47 | 9.00  | 11.28 | V |
|         | 10674 | -43.85 | -25 | -18.85 | -77.76 | -44.29 | 10.49 | 10.93 | V |
|         |       |        |     |        |        |        |       |       | V |
|         |       |        |     |        |        |        |       |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE CA Band 66B**

| LTE Band CA Band 66C / 15MHz+5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                  | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                                   | 3444                 | -57.02         | -13              | -44.02                  | -75.01                  | -63.83                   | 5.69                       | 12.50                       | H                     |
|                                          | 5152                 | -53.88         | -13              | -40.88                  | -76.41                  | -58.84                   | 7.55                       | 12.52                       | H                     |
|                                          | 6870                 | -49.03         | -13              | -36.03                  | -77.46                  | -52.69                   | 8.46                       | 12.12                       | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          | 3444                 | -56.62         | -13              | -43.62                  | -75.04                  | -63.43                   | 5.69                       | 12.50                       | V                     |
|                                          | 5152                 | -53.75         | -13              | -40.75                  | -76.29                  | -58.71                   | 7.55                       | 12.52                       | V                     |
|                                          | 6870                 | -49.13         | -13              | -36.13                  | -77.71                  | -52.79                   | 8.46                       | 12.12                       | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                                   | 3510                 | -56.90         | -13              | -43.90                  | -75.36                  | -63.49                   | 5.75                       | 12.34                       | H                     |
|                                          | 5257                 | -54.27         | -13              | -41.27                  | -77.34                  | -59.90                   | 7.60                       | 13.23                       | H                     |
|                                          | 7008                 | -48.87         | -13              | -35.87                  | -76.77                  | -52.17                   | 8.55                       | 11.85                       | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                          | 3510                 | -56.15         | -13              | -43.15                  | -74.89                  | -62.74                   | 5.75                       | 12.34                       | V                     |
|                                          | 5257                 | -54.43         | -13              | -41.43                  | -77.45                  | -60.06                   | 7.60                       | 13.23                       | V                     |
|                                          | 7008                 | -47.33         | -13              | -34.33                  | -76.37                  | -50.63                   | 8.55                       | 11.85                       | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                          |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3535 | -56.88 | -13 | -43.88 | -75.33 | -63.30 | 5.77 | 12.19 | H |
|         | 5303 | -54.01 | -13 | -41.01 | -77.37 | -59.80 | 7.62 | 13.41 | H |
|         | 7070 | -47.86 | -13 | -34.86 | -76.27 | -50.80 | 8.58 | 11.52 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3535 | -56.59 | -13 | -43.59 | -75.23 | -63.01 | 5.77 | 12.19 | V |
|         | 5303 | -54.19 | -13 | -41.19 | -77.47 | -59.98 | 7.62 | 13.41 | V |
|         | 7070 | -47.41 | -13 | -34.41 | -76.66 | -50.35 | 8.58 | 11.52 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE CA Band 66C**

| LTE Band CA Band 66C / 20MHz+20MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-------------------------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                                    | 3510                 | -57.02         | -13              | -44.02                  | -75.11                  | -63.61                   | 5.75                       | 12.34                       | H                     |
|                                           | 5262                 | -54.14         | -13              | -41.14                  | -76.79                  | -59.79                   | 7.60                       | 13.25                       | H                     |
|                                           | 7020                 | -49.41         | -13              | -36.41                  | -77.65                  | -52.63                   | 8.56                       | 11.78                       | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           | 3510                 | -56.73         | -13              | -43.73                  | -75.23                  | -63.32                   | 5.75                       | 12.34                       | V                     |
|                                           | 5262                 | -54.36         | -13              | -41.36                  | -77                     | -60.01                   | 7.60                       | 13.25                       | V                     |
|                                           | 7020                 | -48.96         | -13              | -35.96                  | -77.68                  | -52.18                   | 8.56                       | 11.78                       | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                                    | 3510                 | -56.21         | -13              | -43.21                  | -74.67                  | -62.80                   | 5.75                       | 12.34                       | H                     |
|                                           | 5262                 | -54.71         | -13              | -41.71                  | -77.8                   | -60.36                   | 7.60                       | 13.25                       | H                     |
|                                           | 7020                 | -48.86         | -13              | -35.86                  | -76.87                  | -52.08                   | 8.56                       | 11.78                       | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                                           | 3510                 | -54.35         | -13              | -41.35                  | -73.09                  | -60.94                   | 5.75                       | 12.34                       | V                     |
|                                           | 5262                 | -53.13         | -13              | -40.13                  | -76.17                  | -58.78                   | 7.60                       | 13.25                       | V                     |
|                                           | 7020                 | -48.04         | -13              | -35.04                  | -77.14                  | -51.26                   | 8.56                       | 11.78                       | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3516 | -56.46 | -13 | -43.46 | -74.93 | -63.01 | 5.75 | 12.30 | H |
|         | 5280 | -54.20 | -13 | -41.20 | -77.41 | -59.91 | 7.61 | 13.32 | H |
|         | 7032 | -48.57 | -13 | -35.57 | -76.67 | -51.71 | 8.56 | 11.71 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3516 | -56.55 | -13 | -43.55 | -75.27 | -63.10 | 5.75 | 12.30 | V |
|         | 5280 | -54.47 | -13 | -41.47 | -77.62 | -60.18 | 7.61 | 13.32 | V |
|         | 7032 | -47.76 | -13 | -34.76 | -76.89 | -50.90 | 8.56 | 11.71 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.