



# FCC RADIO TEST REPORT

**FCC ID** : ZMOL860GL16LL  
**Equipment** : LTE Module  
**Brand Name** : Fibocom Wireless Inc.  
**Model Name** : L860-GL-16  
**Applicant** : Fibocom Wireless Inc.  
1101, Tower A, Building 6, Shenzhen  
International, Innovation Valley, Dashi 1st Rd,  
Nanshan, ShenZhen, China  
**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 Sep. 07, 2021 and testing was started from Sep. 17, 2021 and completed on Sep. 28, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

**Sporton International Inc. EMC & Wireless Communications Laboratory**



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## History of this test report

| Report No. | Version | Description             | Issued Date   |
|------------|---------|-------------------------|---------------|
| FG190338B  | 01      | Initial issue of report | Oct. 25, 2021 |
| FG190338B  | 02      | Add test data           | Dec. 15, 2021 |
|            |         |                         |               |
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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>19.69 dB at<br>7578.000 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: Ruby Zou**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature                 |                       |
|---------------------------------|-----------------------|
| Equipment                       | LTE Module            |
| Brand Name                      | Fibocom Wireless Inc. |
| Model Name                      | L860-GL-16            |
| FCC ID                          | ZMOL860GL16LL         |
| Sample 1                        | EUT with Host 1       |
| Sample 2                        | EUT with Host 2       |
| EUT supports Radios application | WCDMA/HSPA/LTE/GNSS   |
| 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.

The product was installed into Notebook Computer (Brand Name: Lenovo, Model Name: TP00129B, and the host information was recorded in the following table.

| Host Information |                                 |
|------------------|---------------------------------|
| <b>Host 1</b>    | Host with Amphenol Antenna      |
| <b>Host 2</b>    | Host with Novocomms/JYT Antenna |

| Antenna Information |                     |                 |                       |                                                                                                                                                                                                                                                                                                |
|---------------------|---------------------|-----------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Main Antenna</b> | <b>Manufacturer</b> | Amphenol        | <b>Peak gain(dBi)</b> | LTE Band 2 : -0.22<br>LTE Band 4 : 1.95<br>LTE Band 5 : -0.65<br>LTE Band 7 : 1.45<br>LTE Band 12 : -2.03<br>LTE Band 13 : -0.43<br>LTE Band 17 : -2.26<br>LTE Band 25 : -0.06<br>LTE Band 26 : -0.12<br>LTE Band 38 : 1.80<br>LTE Band 41 : 1.87<br>LTE Band 66 : 1.55<br>LTE Band 71 : -1.86 |
|                     | <b>Part number</b>  | TKC116-16-000-C | <b>Type</b>           | PIFA                                                                                                                                                                                                                                                                                           |
|                     | <b>Manufacturer</b> | Novocomms/JYT   | <b>Peak gain(dBi)</b> | LTE Band 2 : -1.42<br>LTE Band 4 : 0.05<br>LTE Band 5 : 0.37<br>LTE Band 7 : 1.88<br>LTE Band 12 : -0.33<br>LTE Band 13 : 0.96<br>LTE Band 17 : -0.08<br>LTE Band 25 : -1.42<br>LTE Band 26 : 0.67<br>LTE Band 38 : 1.84<br>LTE Band 41 : 1.83<br>LTE Band 66 : 0.05<br>LTE Band 71 : -0.39    |
|                     | <b>Part number</b>  | JYAAE0150HR     | <b>Type</b>           | PIFA                                                                                                                                                                                                                                                                                           |

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

## 1.2 Product Specification of Equipment Under Test

| Product Specification subjective 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: 1850.7MHz ~ 1914.3 MHz<br>LTE Band 26: 824.7MHz ~ 848.3 MHz<br>LTE Band 38: 2572.5MHz ~ 2617.5MHz<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: 1930.7MHz ~ 1994.3 MHz<br>LTE Band 26: 869.7MHz ~ 893.3MHz<br>LTE Band 38: 2572.5MHz ~ 2617.5MHz<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 subjective 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

|                           |                                                                     |                           |
|---------------------------|---------------------------------------------------------------------|---------------------------|
| <b>Test Site</b>          | Sporton International Inc. EMC & Wireless Communications Laboratory |                           |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan       |                           |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                             |                           |
|                           | TH03-HY                                                             | 03CH07-HY                 |
| <b>Test Engineer</b>      | Benjamin Lin                                                        | Jesse Wang and Stan Hsieh |
| <b>Temperature</b>        | 23.5~25°C                                                           | 22.6~25.8°C               |
| <b>Relative Humidity</b>  | 49.4~52%                                                            | 48.9~53.6%                |

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

FCC Designation No.: TW1190



## 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.

For radiated, The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal axis (X: flat, Y: portrait, Z: landscape)) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find (**<Sample 1>**: Notebook Type with accessory for LTE Band 25, 41\_HPUE, 41C, 66, 66B, 66C; **<Sample 2>**: Notebook Type with accessory for LTE Band 5B, 7, 7C, 12, 13, 26, 71)as worst plane.

| 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 |



| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bandwidth (MHz)    |   |   |    |    |    | Modulation |       |       | RB #       |      |      | Test Channel |   |   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---|---|----|----|----|------------|-------|-------|------------|------|------|--------------|---|---|
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.4                | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1          | Half | Full | L            | M | H |
| E.R.P / E.I.R.P            | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | v  | v  | v          | v     | v     | Max. Power |      |      |              |   |   |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | v                  | v | v | v  | -  | -  | v          | v     | v     |            |      |      |              |   |   |
|                            | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                  | - | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | -  | -  | v          | v     | v     |            |      |      |              |   |   |
|                            | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | -  | -  | v          | v     | v     |            |      |      |              |   |   |
|                            | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | -  | -  | v          | v     | v     |            |      |      |              |   |   |
|                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | -  | v          | v     | v     |            |      |      |              |   |   |
|                            | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | v                  | v | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
|                            | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - | v | v  | v  | v  | v          | v     | v     |            |      |      |              |   |   |
| Radiated Spurious Emission | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Covered by Band 25 |   |   |    |    |    |            |       |       |            |      |      | v            | v | v |
|                            | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Covered by Band 66 |   |   |    |    |    |            |       |       |            |      |      | v            | v | v |
|                            | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Covered by Band 26 |   |   |    |    |    |            |       |       |            |      |      | v            | v | v |
|                            | 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 |   |   |    |    |    |            |       |       |            |      |      | v            | v | v |
|                            | 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |   |   |    |    | v  | v          |       |       | v          |      |      | v            | v | v |
|                            | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |   |   |    | v  | -  | v          |       |       | v          |      |      | v            | v | v |
|                            | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Covered by Band 41 |   |   |    |    |    |            |       |       |            |      |      | v            | v | v |
|                            | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - |   |    |    | v  | v          |       |       | v          |      |      | v            | v | v |
|                            | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |   |   |    |    | v  | v          |       |       | v          |      |      | v            | v | v |
|                            | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                  | - |   |    |    | 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. |                    |   |   |    |    |    |            |       |       |            |      |      |              |   |   |

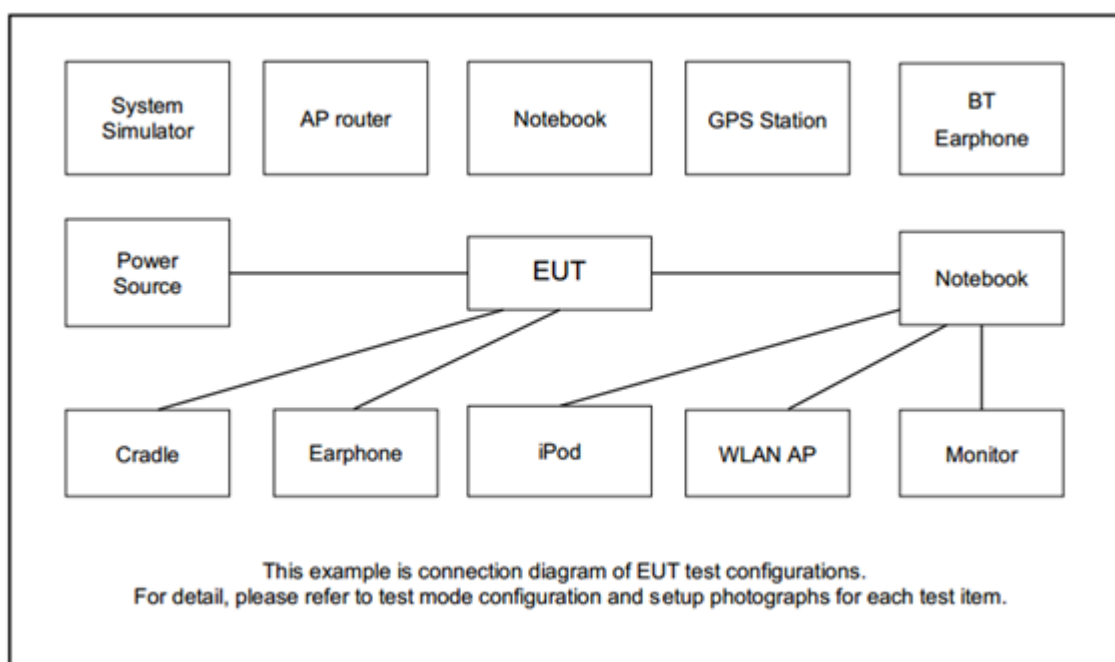


| Test Items                 | Band                                                                                                                                                                                                                                                                                                                                                                               | 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. |                 |     |      |      |       |            |       |       |            |      |      |              |   |   |

| 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 |
|                            | 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     |            |      |      |              |   |   |
|                            | 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. |                     |       |       |       |       |      |      |       |       |       |            |       |       |            |      |      |              |   |   |

| 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. |                 |      |      |      |      |       |            |       |       |            |      |      |              |   |   |

## 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.   | 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  | 37925  | 38025   |
|                                           |                        | Frequency | 2577.5 | 2587.5 | 2597.5  |
|                                           | SCC                    | Channel   | 37975  | 38075  | 38175   |
|                                           |                        | Frequency | 2592.5 | 2602.5 | 2612.5  |

| LTE Band 41 Channel and Frequency List_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 |

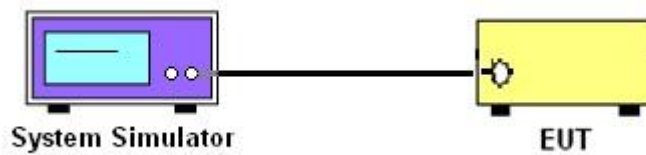
### 3 Conducted Test Items

#### 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.

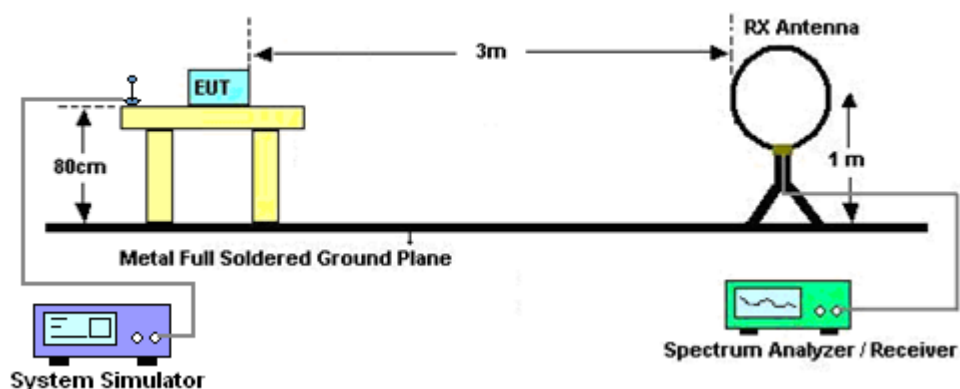
## 4 Radiated Test Items

### 4.1 Measuring Instruments

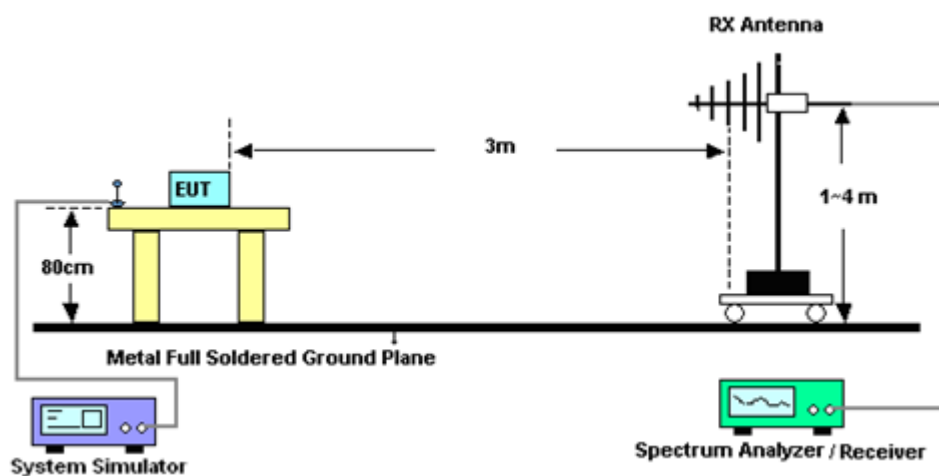
See list of measuring instruments of this test report.

#### 4.1.1 Test Setup

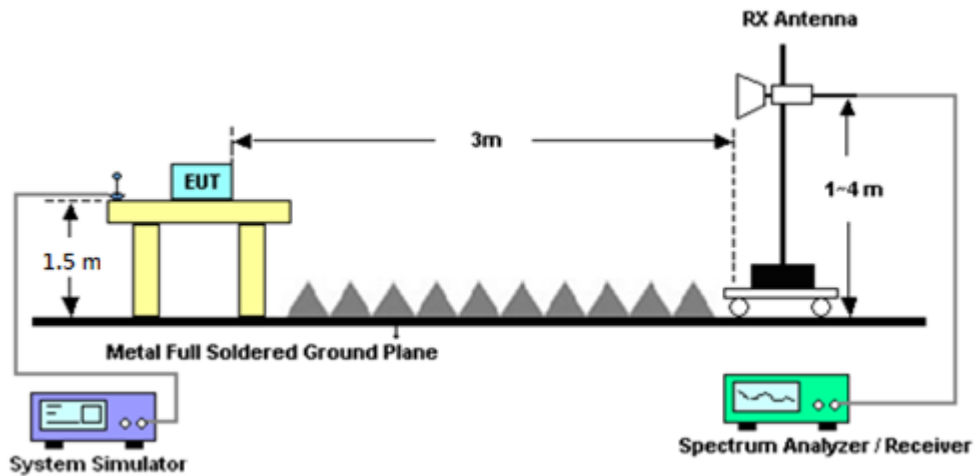
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



#### 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                   |
|---------------------------|-----------------|----------------------------|--------------------|----------------------|------------------|---------------------------------|---------------|--------------------------|
| Bilog Antenna             | TESEQ           | CBL 6111D & 00800N1D01N-06 | 35419 & 03         | 30MHz~1GHz           | Apr. 28, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Apr. 27, 2022 | Radiation<br>(03CH07-HY) |
| Double Ridge Horn Antenna | ESCO            | 3117                       | 00075962           | 1GHz ~ 18GHz         | Dec. 01, 2020    | Sep. 17, 2021~<br>Sep. 28, 2021 | Nov. 30, 2021 | Radiation<br>(03CH07-HY) |
| Preamplifier              | MITEQ           | AMF-7D-0010 1800-30-10P    | 1590075            | 1GHz~18GHz           | Apr. 22, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Apr. 21, 2022 | Radiation<br>(03CH07-HY) |
| Preamplifier              | COM-POWER       | PA-103A                    | 161241             | 10MHz~1GHz           | May 18, 2021     | Sep. 17, 2021~<br>Sep. 28, 2021 | May 17, 2022  | Radiation<br>(03CH07-HY) |
| Preamplifier              | Agilent         | 8449B                      | 3008A02362         | 1GHz~26.5GHz         | Oct. 31, 2020    | Sep. 17, 2021~<br>Sep. 28, 2021 | Oct. 30, 2021 | Radiation<br>(03CH07-HY) |
| Preamplifier              | EMEC            | EM18G40G                   | 0600789            | 18-40GHz             | Jul. 23, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Jul. 22, 2022 | Radiation<br>(03CH07-HY) |
| Spectrum Analyzer         | Agilent         | N9030A                     | MY52350276         | 3Hz~44GHz            | Jul. 22, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Jul. 21, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY15682-4          | 30MHz to 18GHz       | Feb. 24, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Feb. 23, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY24971-4          | 9kHz to 18GHz        | Feb. 24, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Feb. 23, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 104               | MY28655-4          | 9kHz to 18GHz        | Feb. 24, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Feb. 23, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 102               | MY2858/2,80 1606/2 | 18GHz~40GHz          | Feb. 24, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Feb. 23, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 126               | 532078/126E        | 30MHz~18GHz          | Sep. 17, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Sep. 16, 2022 | Radiation<br>(03CH07-HY) |
| RF Cable                  | HUBER + SUHNER  | SUCOFLEX 102               | 801606/2           | 9KHz ~ 40GHz         | Apr. 03, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Apr. 02, 2022 | Radiation<br>(03CH07-HY) |
| Controller                | EMEC            | EM1000                     | N/A                | Control Ant Mast     | Apr. 28, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Apr. 27, 2022 | Radiation<br>(03CH07-HY) |
| Controller                | MF              | MF-7802                    | N/A                | Control Turn table   | N/A              | Sep. 17, 2021~<br>Sep. 28, 2021 | N/A           | Radiation<br>(03CH07-HY) |
| Antenna Mast              | EMEC            | AM-BS-4500E                | N/A                | Boresight mast 1M~4M | Apr. 28, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Apr. 27, 2022 | Radiation<br>(03CH07-HY) |
| Turn Table                | ChainTek        | Chaintek 3000              | N/A                | 0~360 Degree         | N/A              | Sep. 17, 2021~<br>Sep. 28, 2021 | N/A           | Radiation<br>(03CH07-HY) |
| Software                  | Audix           | E3 6.2009-8-24             | N/A                | N/A                  | N/A              | Sep. 17, 2021~<br>Sep. 28, 2021 | N/A           | Radiation<br>(03CH07-HY) |
| USB Data Logger           | TECPEL          | TR-32                      | HE17XB2495         | N/A                  | Mar. 09, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Mar. 08, 2022 | Radiation<br>(03CH07-HY) |
| Horn Antenna              | EMCO            | 3117                       | 00143261           | 1GHz~18GHz           | Jan. 26, 2021    | Sep. 17, 2021~<br>Sep. 28, 2021 | Jan. 25, 2022 | Radiation<br>(03CH07-HY) |
| SHF-EHF Horn Antenna      | SCHWARZBECK     | BBHA 9170                  | BBHA917025 1       | 18GHz~40GHz          | Dec. 02, 2020    | Sep. 17, 2021~<br>Sep. 28, 2021 | Dec. 01, 2021 | Radiation<br>(03CH07-HY) |
| Signal Generator          | Rohde & Schwarz | SMF100A                    | 101107             | 100kHz~40GHz         | Dec. 04, 2020    | Sep. 17, 2021~<br>Sep. 28, 2021 | Dec. 03, 2021 | Radiation<br>(03CH07-HY) |
| Base Station (Measure)    | Anritsu         | MT8821C                    | 6262025341         | N/A                  | Oct. 06, 2020    | Sep. 17, 2021                   | Oct. 05, 2021 | Conducted<br>(TH03-HY)   |



## 6 Uncertainty of Evaluation

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.16 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.71 dB |
|-------------------------------------------------------------------------|---------|

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

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 4.16 dB |
|-------------------------------------------------------------------------|---------|



## Appendix A. Test Results of Conducted Test

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

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 23.09      | 0.2037   |
| 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   | 23.1       | 0.2042   |
| 20                                                          | 1         | 0         | 64-QAM | 21.33  | 20.89  | 21.66   | 21.44      | 0.1393   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 22.93      | 0.1963   |
| 15                                                          | 1         | 0         | 16-QAM | 22.65  | 21.65  | 22.44   | 22.43      | 0.1750   |
| 15                                                          | 1         | 0         | 64-QAM | 21.36  | 21.23  | 21.52   | 21.3       | 0.1349   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 22.64      | 0.1837   |
| 10                                                          | 1         | 0         | 16-QAM | 22.06  | 22.18  | 21.89   | 21.96      | 0.1570   |
| 10                                                          | 1         | 0         | 64-QAM | 21.32  | 20.86  | 20.73   | 21.1       | 0.1288   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 22.89      | 0.1945   |
| 5                                                           | 1         | 0         | 16-QAM | 22.12  | 22.23  | 22.25   | 22.03      | 0.1596   |
| 5                                                           | 1         | 0         | 64-QAM | 21.52  | 21.25  | 21.36   | 21.3       | 0.1349   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 22.87      | 0.1936   |
| 3                                                           | 1         | 0         | 16-QAM | 22.03  | 22.32  | 22.16   | 22.10      | 0.1622   |
| 3                                                           | 1         | 0         | 64-QAM | 21.25  | 21.56  | 21.36   | 21.34      | 0.1361   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 2 Maximum Average Power [dBm] (GT - LC = -0.22 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   | 23.03      | 0.2009   |
| 1.4                                                         | 1         | 0         | 16-QAM | 22.32  | 22.36  | 22.44   | 22.22      | 0.1667   |
| 1.4                                                         | 1         | 0         | 64-QAM | 22.13  | 21.23  | 21.25   | 21.91      | 0.1552   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 23.26      | 0.2118   |
| 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   | 22.57      | 0.1807   |
| 20                                                           | 1         | 0         | 64-QAM | 21.32  | 21.23  | 21.37   | 21.31      | 0.1352   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 22.79      | 0.1901   |
| 15                                                           | 1         | 0         | 16-QAM | 21.68  | 22.25  | 21.87   | 22.19      | 0.1656   |
| 15                                                           | 1         | 0         | 64-QAM | 20.96  | 21.21  | 21.12   | 21.15      | 0.1303   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 22.66      | 0.1845   |
| 10                                                           | 1         | 0         | 16-QAM | 21.86  | 21.82  | 21.63   | 21.80      | 0.1514   |
| 10                                                           | 1         | 0         | 64-QAM | 20.85  | 21.03  | 20.85   | 20.97      | 0.1250   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 23.07      | 0.2028   |
| 5                                                            | 1         | 0         | 16-QAM | 22.12  | 21.85  | 22.62   | 22.56      | 0.1803   |
| 5                                                            | 1         | 0         | 64-QAM | 20.87  | 20.69  | 21.36   | 21.30      | 0.1349   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 22.87      | 0.1936   |
| 3                                                            | 1         | 0         | 16-QAM | 21.85  | 21.86  | 21.93   | 21.87      | 0.1538   |
| 3                                                            | 1         | 0         | 64-QAM | 20.32  | 20.78  | 21.32   | 21.26      | 0.1337   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 25 Maximum Average Power [dBm] (GT - LC = -0.06 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   | 22.60      | 0.1820   |
| 1.4                                                          | 1         | 0         | 16-QAM | 21.56  | 21.68  | 21.92   | 21.86      | 0.1535   |
| 1.4                                                          | 1         | 0         | 64-QAM | 20.72  | 20.86  | 20.68   | 20.80      | 0.1202   |
| Limit                                                        | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.93      | 0.3112   |
| 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   | 24.51      | 0.2825   |
| 20                                                         | 1         | 0         | 64-QAM | 21.65  | 20.80  | 21.25   | 23.60      | 0.2291   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.81      | 0.3027   |
| 15                                                         | 1         | 0         | 16-QAM | 22.38  | 22.21  | 21.58   | 24.33      | 0.2710   |
| 15                                                         | 1         | 0         | 64-QAM | 21.36  | 20.65  | 20.72   | 23.31      | 0.2143   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.84      | 0.3048   |
| 10                                                         | 1         | 0         | 16-QAM | 21.85  | 21.65  | 21.98   | 23.93      | 0.2472   |
| 10                                                         | 1         | 0         | 64-QAM | 21.18  | 20.85  | 21.36   | 23.31      | 0.2143   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.91      | 0.3097   |
| 5                                                          | 1         | 0         | 16-QAM | 22.16  | 21.69  | 22.22   | 24.17      | 0.2612   |
| 5                                                          | 1         | 0         | 64-QAM | 21.33  | 21.21  | 21.16   | 23.28      | 0.2128   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.77      | 0.2999   |
| 3                                                          | 1         | 0         | 16-QAM | 21.63  | 21.63  | 21.65   | 23.60      | 0.2291   |
| 3                                                          | 1         | 0         | 64-QAM | 20.86  | 20.75  | 21.18   | 23.13      | 0.2056   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 4 Maximum Average Power [dBm] (GT - LC = 1.95 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   | 24.73      | 0.2972   |
| 1.4                                                        | 1         | 0         | 16-QAM | 21.65  | 21.75  | 22.13   | 24.08      | 0.2559   |
| 1.4                                                        | 1         | 0         | 64-QAM | 21.23  | 20.63  | 21.36   | 23.31      | 0.2143   |
| Limit                                                      | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 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   | 21.14     | 0.1300  |
| 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   | 20.11     | 0.1026  |
| 10                                                         | 1        | 0         | 64-QAM | 21.32  | 21.26  | 21.66   | 19.88     | 0.0973  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 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   | 21        | 0.1259  |
| 5                                                          | 1        | 0         | 16-QAM | 21.85  | 21.88  | 21.85   | 20.1      | 0.1023  |
| 5                                                          | 1        | 0         | 64-QAM | 21.25  | 21.56  | 21.36   | 19.78     | 0.0951  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 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   | 21.13     | 0.1297  |
| 3                                                          | 1        | 0         | 16-QAM | 21.86  | 21.66  | 22.22   | 20.44     | 0.1107  |
| 3                                                          | 1        | 0         | 64-QAM | 21.65  | 21.36  | 21.63   | 19.87     | 0.0971  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 5 Maximum Average Power [dBm] (GT - LC = 0.37 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   | 21.08     | 0.1282  |
| 1.4                                                        | 1        | 0         | 16-QAM | 21.85  | 21.36  | 21.63   | 20.07     | 0.1016  |
| 1.4                                                        | 1        | 0         | 64-QAM | 20.96  | 21.26  | 21.35   | 19.57     | 0.0906  |
| Limit                                                      | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 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   | 25.14      | 0.3266   |
| 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   | 24.64      | 0.2911   |
| 20                                                         | 1         | 0         | 64-QAM | 21.22  | 21.59  | 20.86   | 23.47      | 0.2223   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 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   | 25.10      | 0.3236   |
| 15                                                         | 1         | 0         | 16-QAM | 22.56  | 22.58  | 22.12   | 24.46      | 0.2793   |
| 15                                                         | 1         | 0         | 64-QAM | 21.58  | 21.36  | 21.23   | 23.46      | 0.2218   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 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   | 25.11      | 0.3243   |
| 10                                                         | 1         | 0         | 16-QAM | 22.58  | 22.52  | 22.52   | 24.46      | 0.2793   |
| 10                                                         | 1         | 0         | 64-QAM | 21.21  | 21.62  | 21.52   | 23.50      | 0.2239   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 7 Maximum Average Power [dBm] (GT - LC = 1.88 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   | 25.11      | 0.3243   |
| 5                                                          | 1         | 0         | 16-QAM | 22.55  | 22.44  | 22.56   | 24.44      | 0.2780   |
| 5                                                          | 1         | 0         | 64-QAM | 21.85  | 21.56  | 21.52   | 23.73      | 0.2360   |
| Limit                                                      | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 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   | 20.38     | 0.1091  |
| 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   | 19.73     | 0.0940  |
| 10                                                           | 1        | 0         | 64-QAM | 20.75  | 21.97  | 20.65   | 19.49     | 0.0889  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 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   | 20.21     | 0.1050  |
| 5                                                            | 1        | 0         | 16-QAM | 21.86  | 21.86  | 21.75   | 19.38     | 0.0867  |
| 5                                                            | 1        | 0         | 64-QAM | 20.96  | 20.96  | 21.13   | 18.65     | 0.0733  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 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   | 20.18     | 0.1042  |
| 3                                                            | 1        | 0         | 16-QAM | 21.86  | 21.85  | 21.86   | 19.38     | 0.0867  |
| 3                                                            | 1        | 0         | 64-QAM | 20.75  | 20.96  | 20.96   | 18.48     | 0.0705  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 12 Maximum Average Power [dBm] (GT - LC = -0.33 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   | 20.21     | 0.1050  |
| 1.4                                                          | 1        | 0         | 16-QAM | 21.87  | 21.86  | 22.20   | 19.72     | 0.0938  |
| 1.4                                                          | 1        | 0         | 64-QAM | 21.86  | 20.96  | 20.98   | 19.38     | 0.0867  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.96 dB) |          |           |        |        |        |         |           |         |
|-------------------------------------------------------------|----------|-----------|--------|--------|--------|---------|-----------|---------|
| BW [MHz]                                                    | RB Size  | RB Offset | Mod    | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10                                                          | 1        | 0         | QPSK   | -      | 22.73  | -       | 21.54     | 0.1426  |
| 10                                                          | 1        | 49        |        |        | 22.56  |         |           |         |
| 10                                                          | 50       | 0         |        |        | 21.65  |         |           |         |
| 10                                                          | 1        | 0         | 16-QAM | -      | 21.86  | -       | 20.67     | 0.1167  |
| 10                                                          | 1        | 0         | 64-QAM |        | 20.97  |         | 19.78     | 0.0951  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 13 Maximum Average Power [dBm] (GT - LC = 0.96 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   | 21.53     | 0.1422  |
| 5                                                           | 1        | 0         | 16-QAM | 21.52  | 21.85  | 21.36   | 20.66     | 0.1164  |
| 5                                                           | 1        | 0         | 64-QAM | 20.96  | 20.96  | 20.56   | 19.77     | 0.0948  |
| Limit                                                       | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.08 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   | 20.62     | 0.1153  |
| 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   | 19.64     | 0.0920  |
| 10                                                           | 1        | 0         | 64-QAM | 21.32  | 20.85  | 21.12   | 19.09     | 0.0811  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 17 Maximum Average Power [dBm] (GT - LC = -0.08 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   | 20.59     | 0.1146  |
| 5                                                            | 1        | 0         | 16-QAM | 21.86  | 21.69  | 21.71   | 19.63     | 0.0918  |
| 5                                                            | 1        | 0         | 64-QAM | 20.86  | 20.78  | 20.65   | 18.63     | 0.0729  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 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   | 21.45     | 0.1396  |
| 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   | 20.24     | 0.1057  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 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   | 21.28     | 0.1343  |
| 10                                                          | 1        | 0         | 16-QAM | 21.36  | 21.32  | 21.56   | 20.08     | 0.1019  |
| 10                                                          | 1        | 0         | 64-QAM | 20.63  | 20.53  | 20.25   | 19.15     | 0.0822  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 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   | 21.28     | 0.1343  |
| 5                                                           | 1        | 0         | 16-QAM | 21.71  | 21.35  | 21.52   | 20.23     | 0.1054  |
| 5                                                           | 1        | 0         | 64-QAM | 20.68  | 20.35  | 20.36   | 19.2      | 0.0832  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 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   | 21.29     | 0.1346  |
| 3                                                           | 1        | 0         | 16-QAM | 21.32  | 21.32  | 21.36   | 19.88     | 0.0973  |
| 3                                                           | 1        | 0         | 64-QAM | 20.85  | 20.25  | 20.33   | 19.37     | 0.0865  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |

| LTE Band 26 Maximum Average Power [dBm] (GT - LC = 0.67 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   | 21.38     | 0.1374  |
| 1.4                                                         | 1        | 0         | 16-QAM | 21.32  | 21.32  | 21.63   | 20.15     | 0.1035  |
| 1.4                                                         | 1        | 0         | 64-QAM | 20.23  | 20.32  | 20.65   | 19.17     | 0.0826  |
| Limit                                                       | ERP < 7W |           |        | Result |        |         | Pass      |         |



| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 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   | 25.30      | 0.3388   |
| 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   | 24.70      | 0.2951   |
| 20                                                          | 1         | 0         | 64-QAM | 21.36  | 21.58  | 21.52   | 23.42      | 0.2198   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 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   | 25.28      | 0.3373   |
| 15                                                          | 1         | 0         | 16-QAM | 22.56  | 22.52  | 22.39   | 24.40      | 0.2754   |
| 15                                                          | 1         | 0         | 64-QAM | 21.36  | 21.23  | 21.82   | 23.66      | 0.2323   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 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   | 25.09      | 0.3228   |
| 10                                                          | 1         | 0         | 16-QAM | 22.52  | 22.36  | 22.03   | 24.36      | 0.2729   |
| 10                                                          | 1         | 0         | 64-QAM | 21.63  | 21.32  | 21.29   | 23.47      | 0.2223   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 38 Maximum Average Power [dBm] (GT - LC = 1.84 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   | 25.20      | 0.3311   |
| 5                                                           | 1         | 0         | 16-QAM | 22.63  | 22.56  | 22.36   | 24.47      | 0.2799   |
| 5                                                           | 1         | 0         | 64-QAM | 21.58  | 21.63  | 21.36   | 23.47      | 0.2223   |
| Limit                                                       | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 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   | 27.22      | 0.5272   |
| 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   | 26.49      | 0.4457   |
| 20                                                                | 1         | 0         | 64-QAM | 23.69  | 23.58  | 23.55   | 25.56      | 0.3597   |
| Limit                                                             | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 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   | 27.20      | 0.5248   |
| 15                                                                | 1         | 0         | 16-QAM | 24.69  | 24.44  | 24.32   | 26.56      | 0.4529   |
| 15                                                                | 1         | 0         | 64-QAM | 23.75  | 23.51  | 23.36   | 25.62      | 0.3648   |
| Limit                                                             | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 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   | 27.22      | 0.5272   |
| 10                                                                | 1         | 0         | 16-QAM | 24.77  | 24.86  | 24.25   | 26.73      | 0.4710   |
| 10                                                                | 1         | 0         | 64-QAM | 23.63  | 23.63  | 23.25   | 25.50      | 0.3548   |
| Limit                                                             | EIRP < 2W |           |        | Result |        |         | Pass       |          |

| LTE Band 41(HPUE) Maximum Average Power [dBm] (GT - LC = 1.87 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   | 27.13      | 0.5164   |
| 5                                                                 | 1         | 0         | 16-QAM | 24.32  | 24.23  | 24.32   | 26.19      | 0.4159   |
| 5                                                                 | 1         | 0         | 64-QAM | 23.36  | 23.63  | 23.63   | 25.50      | 0.3548   |
| Limit                                                             | EIRP < 2W |           |        | Result |        |         | Pass       |          |



| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.54      | 0.2844   |
| 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   | 23.87      | 0.2438   |
| 20                                                          | 1         | 0         | 64-QAM | 21.70  | 20.82  | 20.85   | 23.25      | 0.2113   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.41      | 0.2761   |
| 15                                                          | 1         | 0         | 16-QAM | 22.12  | 22.06  | 21.89   | 23.67      | 0.2328   |
| 15                                                          | 1         | 0         | 64-QAM | 21.69  | 21.16  | 21.02   | 23.24      | 0.2109   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.33      | 0.2710   |
| 10                                                          | 1         | 0         | 16-QAM | 21.86  | 21.65  | 21.76   | 23.41      | 0.2193   |
| 10                                                          | 1         | 0         | 64-QAM | 20.85  | 20.63  | 20.56   | 22.40      | 0.1738   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.40      | 0.2754   |
| 5                                                           | 1         | 0         | 16-QAM | 21.76  | 21.63  | 21.58   | 23.31      | 0.2143   |
| 5                                                           | 1         | 0         | 64-QAM | 20.65  | 20.71  | 20.36   | 22.26      | 0.1683   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.32      | 0.2704   |
| 3                                                           | 1         | 0         | 16-QAM | 21.63  | 21.68  | 21.63   | 23.23      | 0.2104   |
| 3                                                           | 1         | 0         | 64-QAM | 20.73  | 20.32  | 20.58   | 22.28      | 0.1690   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |

| LTE Band 66 Maximum Average Power [dBm] (GT - LC = 1.55 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   | 24.31      | 0.2698   |
| 1.4                                                         | 1         | 0         | 16-QAM | 21.32  | 21.58  | 21.54   | 23.13      | 0.2056   |
| 1.4                                                         | 1         | 0         | 64-QAM | 20.69  | 20.54  | 20.57   | 22.24      | 0.1675   |
| Limit                                                       | EIRP < 1W |           |        | Result |        |         | Pass       |          |



| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 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   | 20.78     | 0.1197  |
| 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   | 19.43     | 0.0877  |
| 20                                                           | 1        | 0         | 64-QAM | 20.36  | 20.97  | 20.69   | 18.43     | 0.0697  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 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   | 20.23     | 0.1054  |
| 15                                                           | 1        | 0         | 16-QAM | 21.56  | 21.58  | 21.96   | 19.42     | 0.0875  |
| 15                                                           | 1        | 0         | 64-QAM | 20.96  | 20.74  | 20.58   | 18.42     | 0.0695  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 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   | 20.32     | 0.1076  |
| 10                                                           | 1        | 0         | 16-QAM | 21.86  | 21.65  | 21.54   | 19.32     | 0.0855  |
| 10                                                           | 1        | 0         | 64-QAM | 20.66  | 20.69  | 20.38   | 18.15     | 0.0653  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |

| LTE Band 71 Maximum Average Power [dBm] (GT - LC = -0.39 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   | 20.04     | 0.1009  |
| 5                                                            | 1        | 0         | 16-QAM | 21.52  | 21.63  | 21.85   | 19.31     | 0.0853  |
| 5                                                            | 1        | 0         | 64-QAM | 20.36  | 20.71  | 20.36   | 18.17     | 0.0656  |
| Limit                                                        | ERP < 3W |           |        | Result |        |         | Pass      |         |



| LTE Band 5B_CA Maximum Average Power [dBm] (GT - LC = 0.37 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   | 21.28     | 0.1343  |
| 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   | 20.58     | 0.1143  |
| 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   | 19.36     | 0.0863  |
| 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 = 1.55 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   | 24.53      | 0.2838   |
| 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   | 24.32      | 0.2704   |
| 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   | 24.11      | 0.2576   |
| 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 = 1.55 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   | 24.20      | 0.2630   |
| 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   | 23.44      | 0.2208   |
| 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   | 22.67      | 0.1849   |
| 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 = 1.88 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   | 25.83      | 0.3828   |
| 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   | 25.54      | 0.3581   |
| 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   | 24.10      | 0.2570   |
| 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   | 24.26      | 0.2667   |
| 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   | 24.08      | 0.2559   |
| 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   | 25.24      | 0.3342   |
| 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   | 23.73      | 0.2360   |
| 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 = 1.88 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   | 24.27      | 0.2673   |
| 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   | 24.16      | 0.2606   |
| 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   | 24.23      | 0.2649   |
| 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   | 23.42      | 0.2198   |
| 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   | 24.24      | 0.2655   |
| 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   | 23.89      | 0.2449   |
| 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 = 1.88 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   | 24.19      | 0.2624   |
| 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   | 23.82      | 0.2410   |
| 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 = 1.84 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   | 25.41      | 0.3475   |
| 20+20                                                           | 1         | 99        | 1       | 0         | 16-QAM | 22.58  | 22.49  | 22.44   | 24.42      | 0.2767   |
| 20+20                                                           | 1         | 99        | 1       | 0         | 64-QAM | 21.54  | 21.46  | 21.46   | 23.38      | 0.2178   |
| Limit                                                           | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



| LTE Band 41C_CA Maximum Average Power [dBm] (GT - LC = 1.87 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   | 25.50      | 0.3548   |
| 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   | 24.98      | 0.3148   |
| 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   | 24.90      | 0.3090   |
| 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   | 25.38      | 0.3451   |
| 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   | 24.96      | 0.3133   |
| 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   | 25.20      | 0.3311   |
| 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   | 24.68      | 0.2938   |
| 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 = 1.87 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   | 25.37      | 0.3443   |
| 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   | 25.13      | 0.3258   |
| 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   | 25.42      | 0.3483   |
| 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   | 25.25      | 0.3350   |
| 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   | 25.09      | 0.3228   |
| 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   | 25.06      | 0.3206   |
| 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 = 1.87 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   | 24.51      | 0.2825   |
| 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   | 24.73      | 0.2972   |
| 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   | 25.46      | 0.3516   |
| 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   | 24.95      | 0.3126   |
| 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   | 25.32      | 0.3404   |
| 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   | 25.00      | 0.3162   |
| 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 = 1.87 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   | 25.33      | 0.3412   |
| 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   | 24.98      | 0.3148   |
| 15+15                                                           | 1         | 74        | 1       | 0         |        | 23.11  | 22.61  | 22.47   |            |          |
| Limit                                                           | EIRP < 2W |           |         |           |        | Result |        |         | Pass       |          |



## Appendix B. Test Results of Radiated Test

&lt;Sample 1&gt;

### 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                 | -57.86          | -13              | -44.86                  | -78.71                  | -64.43                   | 1.67                       | 8.24                        | H                     |
|                            | 5556                 | -55.34          | -13              | -42.34                  | -80.85                  | -62.41                   | 2.66                       | 9.72                        | H                     |
|                            | 7398                 | -54.16          | -13              | -41.16                  | -81.25                  | -63.29                   | 2.46                       | 11.60                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3702                 | -58.02          | -13              | -45.02                  | -78.91                  | -64.59                   | 1.67                       | 8.24                        | V                     |
|                            | 5556                 | -53.56          | -13              | -40.56                  | -79.07                  | -60.63                   | 2.66                       | 9.72                        | V                     |
|                            | 7398                 | -54.16          | -13              | -41.16                  | -81.47                  | -63.29                   | 2.46                       | 11.60                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 3738                 | -58.02          | -13              | -45.02                  | -78.97                  | -64.63                   | 1.68                       | 8.29                        | H                     |
|                            | 5616                 | -55.53          | -13              | -42.53                  | -81.19                  | -62.58                   | 2.69                       | 9.75                        | H                     |
|                            | 7482                 | -54.44          | -13              | -41.44                  | -81.36                  | -63.77                   | 2.44                       | 11.76                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3738                 | -58.21          | -13              | -45.21                  | -79.05                  | -64.82                   | 1.68                       | 8.29                        | V                     |
|                            | 5616                 | -51.43          | -13              | -38.43                  | -77.11                  | -58.48                   | 2.69                       | 9.75                        | V                     |
|                            | 7482                 | -53.79          | -13              | -40.79                  | -81.24                  | -63.12                   | 2.44                       | 11.76                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                    | 3792                 | -58.24          | -13              | -45.24                  | -79.12                  | -64.89                   | 1.70                       | 8.35                        | H                     |
|                            | 5688                 | -55.31          | -13              | -42.31                  | -81.2                   | -62.35                   | 2.73                       | 9.78                        | H                     |
|                            | 7578                 | -53.67          | -13              | -40.67                  | -81.18                  | -63.11                   | 2.40                       | 11.85                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3792                 | -58.27          | -13              | -45.27                  | -79.2                   | -64.92                   | 1.70                       | 8.35                        | V                     |
|                            | 5688                 | -54.63          | -13              | -41.63                  | -80.53                  | -61.67                   | 2.73                       | 9.78                        | V                     |
|                            | 7578                 | -53.69          | -13              | -40.69                  | -81.38                  | -63.13                   | 2.40                       | 11.85                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | 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                     | 3420                 | -56.52          | -13              | -43.52                  | -77.12                  | -62.59                   | 1.58                       | 7.65                        | H                     |
|                            | 5136                 | -55.97          | -13              | -42.97                  | -80.23                  | -63.25                   | 2.42                       | 9.70                        | H                     |
|                            | 6840                 | -54.94          | -13              | -41.94                  | -81.67                  | -62.91                   | 2.64                       | 10.61                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3420                 | -56.52          | -13              | -43.52                  | -77.23                  | -62.59                   | 1.58                       | 7.65                        | V                     |
|                            | 5136                 | -54.93          | -13              | -41.93                  | -79.02                  | -62.21                   | 2.42                       | 9.70                        | V                     |
|                            | 6840                 | -55.12          | -13              | -42.12                  | -81.79                  | -63.09                   | 2.64                       | 10.61                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 3468                 | -57.09          | -13              | -44.09                  | -77.91                  | -63.35                   | 1.59                       | 7.86                        | H                     |
|                            | 5208                 | -55.67          | -13              | -42.67                  | -80.2                   | -62.91                   | 2.46                       | 9.70                        | H                     |
|                            | 6942                 | -54.76          | -13              | -41.76                  | -81.66                  | -62.88                   | 2.61                       | 10.73                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3468                 | -57.29          | -13              | -44.29                  | -78.03                  | -63.55                   | 1.59                       | 7.86                        | V                     |
|                            | 5208                 | -52.71          | -13              | -39.71                  | -77.1                   | -59.95                   | 2.46                       | 9.70                        | V                     |
|                            | 6942                 | -54.64          | -13              | -41.64                  | -81.48                  | -62.76                   | 2.61                       | 10.73                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                    | 3522                 | -57.33          | -13              | -44.33                  | -78.21                  | -63.75                   | 1.61                       | 8.03                        | H                     |
|                            | 5286                 | -55.25          | -13              | -42.25                  | -79.99                  | -62.45                   | 2.50                       | 9.70                        | H                     |
|                            | 7038                 | -54.68          | -13              | -41.68                  | -81.68                  | -62.98                   | 2.58                       | 10.88                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3522                 | -57.34          | -13              | -44.34                  | -78.14                  | -63.76                   | 1.61                       | 8.03                        | V                     |
|                            | 5286                 | -52.45          | -13              | -39.45                  | -77.1                   | -59.65                   | 2.50                       | 9.70                        | V                     |
|                            | 7038                 | -54.47          | -13              | -41.47                  | -81.62                  | -62.77                   | 2.58                       | 10.88                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 66B**

| LTE Band 66B / 15+5MHz / 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                        | 3440                 | -57.20          | -13              | -44.20                  | -77.98                  | -63.35                   | 1.59                       | 7.74                        | H                     |
|                               | 5160                 | -55.81          | -13              | -42.81                  | -80.17                  | -63.08                   | 2.43                       | 9.70                        | H                     |
|                               | 6880                 | -54.40          | -13              | -41.40                  | -81.2                   | -62.43                   | 2.63                       | 10.66                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 3440                 | -57.42          | -13              | -44.42                  | -78.17                  | -63.57                   | 1.59                       | 7.74                        | V                     |
|                               | 5160                 | -55.80          | -13              | -42.80                  | -80.01                  | -63.07                   | 2.43                       | 9.70                        | V                     |
|                               | 6880                 | -53.78          | -13              | -40.78                  | -80.55                  | -61.81                   | 2.63                       | 10.66                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                        | 3510                 | -57.09          | -13              | -44.09                  | -78.09                  | -63.49                   | 1.61                       | 8.01                        | H                     |
|                               | 5265                 | -55.49          | -13              | -42.49                  | -80.21                  | -62.7                    | 2.49                       | 9.70                        | H                     |
|                               | 7020                 | -54.43          | -13              | -41.43                  | -81.46                  | -62.69                   | 2.58                       | 10.84                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 3510                 | -57.32          | -13              | -44.32                  | -78.18                  | -63.72                   | 1.61                       | 8.01                        | V                     |
|                               | 5265                 | -55.97          | -13              | -42.97                  | -80.59                  | -63.18                   | 2.49                       | 9.70                        | V                     |
|                               | 7020                 | -54.49          | -13              | -41.49                  | -81.58                  | -62.75                   | 2.58                       | 10.84                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 66B / 15+5MHz / 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) |
| Highest                       | 3540                 | -56.44          | -13              | -43.44                  | -77.43                  | -62.87                   | 1.62                       | 8.05                        | H                     |
|                               | 5310                 | -55.62          | -13              | -42.62                  | -80.54                  | -62.8                    | 2.52                       | 9.70                        | H                     |
|                               | 7080                 | -54.54          | -13              | -41.54                  | -81.59                  | -62.94                   | 2.56                       | 10.96                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 3540                 | -56.77          | -13              | -43.77                  | -77.63                  | -63.2                    | 1.62                       | 8.05                        | V                     |
|                               | 5310                 | -55.56          | -13              | -42.56                  | -80.39                  | -62.74                   | 2.52                       | 9.70                        | V                     |
|                               | 7080                 | -54.03          | -13              | -41.03                  | -81.16                  | -62.43                   | 2.56                       | 10.96                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 66C**

| LTE Band 66C / 20+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                         | 3462                 | -57.19          | -13              | -44.19                  | -77.99                  | -63.43                   | 1.59                       | 7.83                        | H                     |
|                                | 5190                 | -56.13          | -13              | -43.13                  | -80.51                  | -63.38                   | 2.45                       | 9.70                        | H                     |
|                                | 6918                 | -54.59          | -13              | -41.59                  | -81.54                  | -62.67                   | 2.62                       | 10.70                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 3462                 | -56.77          | -13              | -43.77                  | -77.55                  | -63.01                   | 1.59                       | 7.83                        | V                     |
|                                | 5190                 | -55.77          | -13              | -42.77                  | -80.03                  | -63.02                   | 2.45                       | 9.70                        | V                     |
|                                | 6918                 | -55.07          | -13              | -42.07                  | -81.87                  | -63.15                   | 2.62                       | 10.70                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                         | 3510                 | -56.63          | -13              | -43.63                  | -77.63                  | -63.03                   | 1.61                       | 8.01                        | H                     |
|                                | 5262                 | -55.41          | -13              | -42.41                  | -80.14                  | -62.62                   | 2.49                       | 9.70                        | H                     |
|                                | 7020                 | -54.42          | -13              | -41.42                  | -81.46                  | -62.68                   | 2.58                       | 10.84                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 3510                 | -56.38          | -13              | -43.38                  | -77.12                  | -62.78                   | 1.61                       | 8.01                        | V                     |
|                                | 5262                 | -54.81          | -13              | -41.81                  | -79.51                  | -62.02                   | 2.49                       | 9.70                        | V                     |
|                                | 7020                 | -54.48          | -13              | -41.48                  | -81.66                  | -62.74                   | 2.58                       | 10.84                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 66C / 20+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) |
| Highest                        | 3522                 | -57.16          | -13              | -44.16                  | -78.06                  | -63.58                   | 1.61                       | 8.03                        | H                     |
|                                | 5280                 | -56.03          | -13              | -43.03                  | -80.79                  | -63.23                   | 2.50                       | 9.70                        | H                     |
|                                | 7038                 | -54.28          | -13              | -41.28                  | -81.26                  | -62.58                   | 2.58                       | 10.88                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 3522                 | -57.29          | -13              | -44.29                  | -78.12                  | -63.71                   | 1.61                       | 8.03                        | V                     |
|                                | 5280                 | -54.59          | -13              | -41.59                  | -79.38                  | -61.79                   | 2.50                       | 9.70                        | V                     |
|                                | 7038                 | -54.79          | -13              | -41.79                  | -81.89                  | -63.09                   | 2.58                       | 10.88                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 41(HPUE)**

| LTE Band 41 / 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                     | 4992                 | -54.66          | -25              | -29.66                  | -78.41                  | -62.01                   | 2.33                       | 9.68                        | H                     |
|                            | 7488                 | -54.15          | -25              | -29.15                  | -81.34                  | -63.49                   | 2.43                       | 11.78                       | H                     |
|                            | 9990                 | -51.06          | -25              | -26.06                  | -82.37                  | -60.57                   | 2.69                       | 12.21                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 4992                 | -53.54          | -25              | -28.54                  | -77.14                  | -60.89                   | 2.33                       | 9.68                        | V                     |
|                            | 7488                 | -54.13          | -25              | -29.13                  | -81.48                  | -63.47                   | 2.43                       | 11.78                       | V                     |
|                            | 9990                 | -51.15          | -25              | -26.15                  | -82.53                  | -60.66                   | 2.69                       | 12.21                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 5166                 | -53.77          | -25              | -28.77                  | -78.13                  | -61.04                   | 2.43                       | 9.70                        | H                     |
|                            | 7752                 | -53.59          | -25              | -28.59                  | -81.35                  | -63.19                   | 2.35                       | 11.95                       | H                     |
|                            | 10332                | -50.19          | -25              | -25.19                  | -82.36                  | -59.83                   | 2.69                       | 12.33                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 5166                 | -51.46          | -25              | -26.46                  | -75.69                  | -58.73                   | 2.43                       | 9.70                        | V                     |
|                            | 7752                 | -53.54          | -25              | -28.54                  | -81.59                  | -63.14                   | 2.35                       | 11.95                       | V                     |
|                            | 10332                | -49.97          | -25              | -24.97                  | -82.19                  | -59.61                   | 2.69                       | 12.33                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 41 / 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) |
| Highest                    | 5340                 | -53.36          | -25              | -28.36                  | -78.3                   | -60.53                   | 2.53                       | 9.70                        | H                     |
|                            | 8010                 | -52.51          | -25              | -27.51                  | -80.97                  | -62.35                   | 2.27                       | 12.11                       | H                     |
|                            | 10674                | -49.41          | -25              | -24.41                  | -82.72                  | -59.15                   | 2.69                       | 12.43                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 5340                 | -51.58          | -25              | -26.58                  | -76.48                  | -58.75                   | 2.53                       | 9.70                        | V                     |
|                            | 8010                 | -52.51          | -25              | -27.51                  | -81.29                  | -62.35                   | 2.27                       | 12.11                       | V                     |
|                            | 10674                | -49.07          | -25              | -24.07                  | -82.25                  | -58.81                   | 2.69                       | 12.43                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 41C**

| LTE Band 41C / 20+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                         | 5032                 | -56.08          | -25              | -31.08                  | -79.98                  | -63.42                   | 2.36                       | 9.70                        | H                     |
|                                | 7548                 | -54.03          | -25              | -29.03                  | -81.33                  | -63.45                   | 2.41                       | 11.83                       | H                     |
|                                | 10064                | -50.94          | -25              | -25.94                  | -82.47                  | -60.47                   | 2.70                       | 12.23                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 5032                 | -55.48          | -25              | -30.48                  | -79.19                  | -62.82                   | 2.36                       | 9.70                        | V                     |
|                                | 7548                 | -52.57          | -25              | -27.57                  | -80.12                  | -61.99                   | 2.41                       | 11.83                       | V                     |
|                                | 10064                | -51.31          | -25              | -26.31                  | -82.77                  | -60.84                   | 2.70                       | 12.23                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                         | 5184                 | -51.99          | -25              | -26.99                  | -76.41                  | -59.25                   | 2.44                       | 9.70                        | H                     |
|                                | 7779                 | -53.20          | -25              | -28.20                  | -81.04                  | -62.83                   | 2.34                       | 11.97                       | H                     |
|                                | 10372                | -49.95          | -25              | -24.95                  | -82.44                  | -59.61                   | 2.69                       | 12.35                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 5184                 | -50.41          | -25              | -25.41                  | -74.69                  | -57.67                   | 2.44                       | 9.70                        | V                     |
|                                | 7779                 | -52.74          | -25              | -27.74                  | -80.87                  | -62.37                   | 2.34                       | 11.97                       | V                     |
|                                | 10372                | -50.15          | -25              | -25.15                  | -82.5                   | -59.81                   | 2.69                       | 12.35                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 41C / 20+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) |
| Highest                        | 5340                 | -51.95          | -25              | -26.95                  | -76.94                  | -59.12                   | 2.53                       | 9.70                        | H                     |
|                                | 8010                 | -52.43          | -25              | -27.43                  | -80.82                  | -62.27                   | 2.27                       | 12.11                       | H                     |
|                                | 10680                | -49.31          | -25              | -24.31                  | -82.64                  | -59.06                   | 2.69                       | 12.44                       | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                                | 5340                 | -49.15          | -25              | -24.15                  | -74.06                  | -56.32                   | 2.53                       | 9.70                        | V                     |
|                                | 8010                 | -51.72          | -25              | -26.72                  | -80.45                  | -61.56                   | 2.27                       | 12.11                       | V                     |
|                                | 10680                | -49.52          | -25              | -24.52                  | -82.67                  | -59.27                   | 2.69                       | 12.44                       | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                                |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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



&lt;Sample 2&gt;

**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                     | 1648                 | -63.48         | -13              | -50.48                  | -75.36                  | -65.24                   | 0.98                       | 4.89                        | H                     |
|                            | 2472                 | -56.82         | -13              | -43.82                  | -74.03                  | -58.7                    | 1.28                       | 5.32                        | H                     |
|                            | 3296                 | -57.85         | -13              | -44.85                  | -77.19                  | -61.26                   | 1.54                       | 7.10                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1648                 | -62.93         | -13              | -49.93                  | -75.28                  | -64.69                   | 0.98                       | 4.89                        | V                     |
|                            | 2472                 | -57.60         | -13              | -44.60                  | -75.25                  | -59.48                   | 1.28                       | 5.32                        | V                     |
|                            | 3296                 | -57.49         | -13              | -44.49                  | -77.16                  | -60.9                    | 1.54                       | 7.10                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1658                 | -63.67         | -13              | -50.67                  | -75.71                  | -65.4                    | 0.98                       | 4.86                        | H                     |
|                            | 2487                 | -55.96         | -13              | -42.96                  | -73.15                  | -57.88                   | 1.29                       | 5.36                        | H                     |
|                            | 3316                 | -57.82         | -13              | -44.82                  | -77.27                  | -61.31                   | 1.55                       | 7.19                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1658                 | -62.89         | -13              | -49.89                  | -75.4                   | -64.62                   | 0.98                       | 4.86                        | V                     |
|                            | 2487                 | -57.24         | -13              | -44.24                  | -74.87                  | -59.16                   | 1.29                       | 5.36                        | V                     |
|                            | 3316                 | -57.50         | -13              | -44.50                  | -77.23                  | -60.99                   | 1.55                       | 7.19                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                    | 1668                 | -63.64         | -13              | -50.64                  | -75.68                  | -65.33                   | 0.99                       | 4.83                        | H                     |
|                            | 2504                 | -55.76         | -13              | -42.76                  | -73                     | -57.72                   | 1.29                       | 5.40                        | H                     |
|                            | 3336                 | -57.76         | -13              | -44.76                  | -77.29                  | -61.34                   | 1.55                       | 7.28                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1668                 | -63.34         | -13              | -50.34                  | -75.85                  | -65.03                   | 0.99                       | 4.83                        | V                     |
|                            | 2504                 | -55.35         | -13              | -42.35                  | -73.04                  | -57.31                   | 1.29                       | 5.40                        | V                     |
|                            | 3336                 | -57.82         | -13              | -44.82                  | -77.6                   | -61.4                    | 1.55                       | 7.28                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 5B**

| LTE Band 5B / 10+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                        | 1672                 | -63.94         | -13              | -50.94                  | -76.09                  | -65.62                   | 0.99                       | 4.82                        | H                     |
|                               | 2504                 | -54.95         | -13              | -41.95                  | -72.16                  | -56.91                   | 1.29                       | 5.40                        | H                     |
|                               | 3336                 | -57.95         | -13              | -44.95                  | -77.5                   | -61.53                   | 1.55                       | 7.28                        | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               | 1672                 | -63.37         | -13              | -50.37                  | -76.01                  | -65.05                   | 0.99                       | 4.82                        | V                     |
|                               | 2504                 | -52.96         | -13              | -39.96                  | -70.61                  | -54.92                   | 1.29                       | 5.40                        | V                     |
|                               | 3336                 | -57.65         | -13              | -44.65                  | -77.43                  | -61.23                   | 1.55                       | 7.28                        | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                        | 1672                 | -63.84         | -13              | -50.84                  | -75.93                  | -65.52                   | 0.99                       | 4.82                        | H                     |
|                               | 2512                 | -54.85         | -13              | -41.85                  | -72.07                  | -56.82                   | 1.29                       | 5.41                        | H                     |
|                               | 3344                 | -57.57         | -13              | -44.57                  | -77.28                  | -61.18                   | 1.56                       | 7.31                        | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               | 1672                 | -63.19         | -13              | -50.19                  | -75.83                  | -64.87                   | 0.99                       | 4.82                        | V                     |
|                               | 2512                 | -53.48         | -13              | -40.48                  | -71.2                   | -55.45                   | 1.29                       | 5.41                        | V                     |
|                               | 3344                 | -57.95         | -13              | -44.95                  | -77.78                  | -61.56                   | 1.56                       | 7.31                        | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 5B / 10+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) |
| Highest                       | 1680                 | -63.48         | -13              | -50.48                  | -75.77                  | -65.13                   | 0.99                       | 4.80                        | H                     |
|                               | 2520                 | -54.54         | -13              | -41.54                  | -71.73                  | -56.51                   | 1.30                       | 5.42                        | H                     |
|                               | 3352                 | -58.09         | -13              | -45.09                  | -77.64                  | -61.73                   | 1.56                       | 7.35                        | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                               | 1680                 | -63.18         | -13              | -50.18                  | -75.87                  | -64.83                   | 0.99                       | 4.80                        | V                     |
|                               | 2520                 | -53.16         | -13              | -40.16                  | -70.86                  | -55.13                   | 1.30                       | 5.42                        | V                     |
|                               | 3352                 | -57.98         | -13              | -44.98                  | -77.77                  | -61.62                   | 1.56                       | 7.35                        | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                |                  |                         |                         |                          |                            |                             | 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                    | 5004                 | -54.53          | -25              | -29.53                  | -78.35                  | -61.89                   | 2.34                       | 9.70                        | H                     |
|                           | 7506                 | -51.84          | -25              | -26.84                  | -79.07                  | -61.22                   | 2.43                       | 11.80                       | H                     |
|                           | 10008                | -51.18          | -25              | -26.18                  | -82.54                  | -60.69                   | 2.70                       | 12.20                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5004                 | -54.75          | -25              | -29.75                  | -78.39                  | -62.11                   | 2.34                       | 9.70                        | V                     |
|                           | 7506                 | -50.37          | -25              | -25.37                  | -77.88                  | -59.75                   | 2.43                       | 11.80                       | V                     |
|                           | 10008                | -51.37          | -25              | -26.37                  | -82.7                   | -60.88                   | 2.70                       | 12.20                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 5052                 | -54.54          | -25              | -29.54                  | -78.54                  | -61.87                   | 2.37                       | 9.70                        | H                     |
|                           | 7578                 | -49.69          | -25              | -24.69                  | -77.08                  | -59.13                   | 2.40                       | 11.85                       | H                     |
|                           | 10098                | -51.29          | -25              | -26.29                  | -82.87                  | -60.83                   | 2.70                       | 12.24                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5052                 | -52.92          | -25              | -27.92                  | -76.71                  | -60.25                   | 2.37                       | 9.70                        | V                     |
|                           | 7578                 | -44.69          | -25              | -19.69                  | -72.27                  | -54.13                   | 2.40                       | 11.85                       | V                     |
|                           | 10098                | -51.27          | -25              | -26.27                  | -82.86                  | -60.81                   | 2.70                       | 12.24                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                   | 5100                 | -53.45          | -25              | -28.45                  | -77.53                  | -60.76                   | 2.39                       | 9.70                        | H                     |
|                           | 7656                 | -51.63          | -25              | -26.63                  | -79.21                  | -61.14                   | 2.38                       | 11.89                       | H                     |
|                           | 10206                | -50.66          | -25              | -25.66                  | -82.62                  | -60.25                   | 2.70                       | 12.28                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5100                 | -51.74          | -25              | -26.74                  | -75.71                  | -59.05                   | 2.39                       | 9.70                        | V                     |
|                           | 7656                 | -48.62          | -25              | -23.62                  | -76.44                  | -58.13                   | 2.38                       | 11.89                       | V                     |
|                           | 10206                | -50.84          | -25              | -25.84                  | -82.71                  | -60.43                   | 2.70                       | 12.28                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |

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

**LTE Band 7C**

| LTE Band 7C / 20+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                        | 5040                 | -55.17          | -25              | -30.17                  | -79.11                  | -62.51                   | 2.36                       | 9.70                        | H                     |
|                               | 7560                 | -53.69          | -25              | -28.69                  | -81.04                  | -63.12                   | 2.41                       | 11.84                       | H                     |
|                               | 10080                | -50.91          | -25              | -25.91                  | -82.5                   | -60.45                   | 2.70                       | 12.23                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 5040                 | -53.88          | -25              | -28.88                  | -77.64                  | -61.22                   | 2.36                       | 9.70                        | V                     |
|                               | 7560                 | -52.78          | -25              | -27.78                  | -80.39                  | -62.21                   | 2.41                       | 11.84                       | V                     |
|                               | 10080                | -50.51          | -25              | -25.51                  | -82.03                  | -60.05                   | 2.70                       | 12.23                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                        | 5070                 | -55.28          | -25              | -30.28                  | -79.31                  | -62.6                    | 2.38                       | 9.70                        | H                     |
|                               | 7605                 | -53.93          | -25              | -28.93                  | -81.4                   | -63.4                    | 2.40                       | 11.86                       | H                     |
|                               | 10140                | -50.65          | -25              | -25.65                  | -82.41                  | -60.21                   | 2.70                       | 12.26                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 5070                 | -54.01          | -25              | -29.01                  | -77.86                  | -61.33                   | 2.38                       | 9.70                        | V                     |
|                               | 7605                 | -53.45          | -25              | -28.45                  | -81.18                  | -62.92                   | 2.40                       | 11.86                       | V                     |
|                               | 10140                | -50.72          | -25              | -25.72                  | -82.39                  | -60.28                   | 2.70                       | 12.26                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 7C / 20+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) |
| Highest                       | 5100                 | -53.05          | -25              | -28.05                  | -77.19                  | -60.36                   | 2.39                       | 9.70                        | H                     |
|                               | 7650                 | -53.44          | -25              | -28.44                  | -80.97                  | -62.95                   | 2.38                       | 11.89                       | H                     |
|                               | 10200                | -50.33          | -25              | -25.33                  | -82.29                  | -59.91                   | 2.70                       | 12.28                       | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                               | 5100                 | -51.60          | -25              | -26.60                  | -75.57                  | -58.91                   | 2.39                       | 9.70                        | V                     |
|                               | 7650                 | -52.41          | -25              | -27.41                  | -80.21                  | -61.92                   | 2.38                       | 11.89                       | V                     |
|                               | 10200                | -50.31          | -25              | -25.31                  | -82.17                  | -59.89                   | 2.70                       | 12.28                       | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                               |                      |                 |                  |                         |                         |                          |                            |                             | 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                     | 1400                 | -63.94         | -13              | -50.94                  | -74.15                  | -65.60                   | 0.87                       | 4.68                        | H                     |
|                            | 2096                 | -60.63         | -13              | -47.63                  | -76.02                  | -61.50                   | 1.16                       | 4.19                        | H                     |
|                            | 2800                 | -58.94         | -13              | -45.94                  | -76.49                  | -61.05                   | 1.38                       | 5.64                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1400                 | -63.27         | -13              | -50.27                  | -73.95                  | -64.93                   | 0.87                       | 4.68                        | V                     |
|                            | 2096                 | -60.40         | -13              | -47.40                  | -76.12                  | -61.27                   | 1.16                       | 4.19                        | V                     |
|                            | 2800                 | -58.29         | -13              | -45.29                  | -76.62                  | -60.40                   | 1.38                       | 5.64                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1408                 | -63.14         | -13              | -50.14                  | -73.34                  | -64.85                   | 0.87                       | 4.73                        | H                     |
|                            | 2112                 | -60.93         | -13              | -47.93                  | -76.40                  | -61.85                   | 1.17                       | 4.24                        | H                     |
|                            | 2816                 | -59.28         | -13              | -46.28                  | -76.87                  | -61.39                   | 1.39                       | 5.65                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1408                 | -62.71         | -13              | -49.71                  | -73.38                  | -64.42                   | 0.87                       | 4.73                        | V                     |
|                            | 2112                 | -60.47         | -13              | -47.47                  | -76.28                  | -61.39                   | 1.17                       | 4.24                        | V                     |
|                            | 2816                 | -58.11         | -13              | -45.11                  | -76.50                  | -60.22                   | 1.39                       | 5.65                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                    | 1416                 | -63.33         | -13              | -50.33                  | -73.53                  | -65.08                   | 0.87                       | 4.78                        | H                     |
|                            | 2120                 | -60.61         | -13              | -47.61                  | -76.16                  | -61.55                   | 1.17                       | 4.26                        | H                     |
|                            | 2824                 | -59.19         | -13              | -46.19                  | -76.77                  | -61.31                   | 1.39                       | 5.66                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1416                 | -63.52         | -13              | -50.52                  | -74.19                  | -65.27                   | 0.87                       | 4.78                        | V                     |
|                            | 2120                 | -60.21         | -13              | -47.21                  | -76.11                  | -61.15                   | 1.17                       | 4.26                        | V                     |
|                            | 2824                 | -58.36         | -13              | -45.36                  | -76.74                  | -60.48                   | 1.39                       | 5.66                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | 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                    | 1552                 | -64.25         | -13              | -51.25                  | -75.16                  | -66.32                   | 0.94                       | 5.15                        | H                     |
|                           | 2336                 | -46.34         | -13              | -33.34                  | -63.03                  | -47.86                   | 1.24                       | 4.91                        | H                     |
|                           | 3112                 | -58.78         | -13              | -45.78                  | -77.25                  | -61.44                   | 1.48                       | 6.29                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1552                 | -63.32         | -13              | -50.32                  | -74.86                  | -65.39                   | 0.94                       | 5.15                        | V                     |
|                           | 2336                 | -51.53         | -13              | -38.53                  | -68.59                  | -53.05                   | 1.24                       | 4.91                        | V                     |
|                           | 3112                 | -58.16         | -13              | -45.16                  | -77.26                  | -60.82                   | 1.48                       | 6.29                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 1560                 | -63.53         | -42.15           | -21.38                  | -74.58                  | -65.57                   | 0.94                       | 5.13                        | H                     |
|                           | 2336                 | -42.36         | -13              | -29.36                  | -59.02                  | -43.88                   | 1.24                       | 4.91                        | H                     |
|                           | 3120                 | -58.74         | -13              | -45.74                  | -77.26                  | -61.43                   | 1.49                       | 6.33                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1560                 | -63.44         | -42.15           | -21.29                  | -75.10                  | -65.48                   | 0.94                       | 5.13                        | V                     |
|                           | 2336                 | -47.96         | -13              | -34.96                  | -64.95                  | -49.48                   | 1.24                       | 4.91                        | V                     |
|                           | 3120                 | -57.82         | -13              | -44.82                  | -76.97                  | -60.51                   | 1.49                       | 6.33                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



| 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) |
| Highest                   | 1560                 | -64.49         | -42.15           | -22.34                  | -75.67                  | -66.53                   | 0.94                       | 5.13                        | H                     |
|                           | 2344                 | -46.04         | -13              | -33.04                  | -62.71                  | -47.58                   | 1.24                       | 4.93                        | H                     |
|                           | 3128                 | -58.89         | -13              | -45.89                  | -77.37                  | -61.62                   | 1.49                       | 6.36                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1560                 | -63.92         | -42.15           | -21.77                  | -75.56                  | -65.96                   | 0.94                       | 5.13                        | V                     |
|                           | 2344                 | -50.47         | -13              | -37.47                  | -67.53                  | -52.01                   | 1.24                       | 4.93                        | V                     |
|                           | 3128                 | -58.29         | -13              | -45.29                  | -77.49                  | -61.02                   | 1.49                       | 6.36                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | 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                     | 1552                 | -62.49         | -13              | -49.49                  | -73.51                  | -64.56                   | 0.94                       | 5.15                        | H                     |
|                            | 2336                 | -41.83         | -13              | -28.83                  | -58.43                  | -43.35                   | 1.24                       | 4.91                        | H                     |
|                            | 3112                 | -58.72         | -13              | -45.72                  | -77.15                  | -61.38                   | 1.48                       | 6.29                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1552                 | -63.61         | -13              | -50.61                  | -75.15                  | -65.68                   | 0.94                       | 5.15                        | V                     |
|                            | 2336                 | -45.36         | -13              | -32.36                  | -62.47                  | -46.88                   | 1.24                       | 4.91                        | V                     |
|                            | 3112                 | -57.67         | -13              | -44.67                  | -76.84                  | -60.33                   | 1.48                       | 6.29                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | 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 ) | 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                     | 1328                 | -64.33         | -13              | -51.33                  | -74.22                  | -65.58                   | 0.84                       | 4.23                        | H                     |
|                            | 1992                 | -59.98         | -13              | -46.98                  | -74.85                  | -60.62                   | 1.13                       | 3.92                        | H                     |
|                            | 2648                 | -60.01         | -13              | -47.01                  | -77.3                   | -62.04                   | 1.34                       | 5.52                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1328                 | -64.02         | -13              | -51.02                  | -74.32                  | -65.27                   | 0.84                       | 4.23                        | V                     |
|                            | 1992                 | -60.23         | -13              | -47.23                  | -75.42                  | -60.87                   | 1.13                       | 3.92                        | V                     |
|                            | 2648                 | -59.09         | -13              | -46.09                  | -76.99                  | -61.12                   | 1.34                       | 5.52                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1344                 | -63.91         | -13              | -50.91                  | -73.83                  | -65.25                   | 0.84                       | 4.33                        | H                     |
|                            | 2016                 | -60.82         | -13              | -47.82                  | -75.91                  | -61.48                   | 1.14                       | 3.95                        | H                     |
|                            | 2696                 | -58.91         | -13              | -45.91                  | -76.29                  | -60.96                   | 1.35                       | 5.56                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1344                 | -63.28         | -13              | -50.28                  | -73.62                  | -64.62                   | 0.84                       | 4.33                        | V                     |
|                            | 2016                 | -60.31         | -13              | -47.31                  | -75.72                  | -60.97                   | 1.14                       | 3.95                        | V                     |
|                            | 2696                 | -58.63         | -13              | -45.63                  | -76.68                  | -60.68                   | 1.35                       | 5.56                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



| LTE Band 71 / 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) |
| Highest                    | 1352                 | -64.21         | -13              | -51.21                  | -74.23                  | -65.6                    | 0.85                       | 4.38                        | H                     |
|                            | 2040                 | -59.64         | -13              | -46.64                  | -74.8                   | -60.36                   | 1.15                       | 4.02                        | H                     |
|                            | 2712                 | -59.58         | -13              | -46.58                  | -76.99                  | -61.64                   | 1.36                       | 5.57                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1352                 | -63.80         | -13              | -50.80                  | -74.26                  | -65.19                   | 0.85                       | 4.38                        | V                     |
|                            | 2040                 | -59.72         | -13              | -46.72                  | -75.2                   | -60.44                   | 1.15                       | 4.02                        | V                     |
|                            | 2712                 | -58.88         | -13              | -45.88                  | -76.98                  | -60.94                   | 1.36                       | 5.57                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |

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