



# FCC RF Test Report

**APPLICANT** : Wistron Corporation  
**EQUIPMENT** : Notebook Computer  
**BRAND NAME** : Lenovo  
**MODEL NAME** : TP00076D  
**FCC ID** : PU5-TP00076DUC  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

Equipment: Fibocom L850-GL and Intel 8265NGW tested inside of Lenovo Notebook Computer.

This is a partial report. The product was received on Dec. 13, 2017 and completely tested on Jan. 16, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FG7N0343-03B | Rev. 01 | Initial issue of report | Feb. 21, 2018 |
|              |         |                         |               |
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|              |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                                                                   | Description                                                                                             | Limit                               | Result | Remark                               |
|----------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------|--------|--------------------------------------|
| 3.4            | §2.1046                                                                                    | Conducted Output Power                                                                                  | Reporting Only                      | PASS   | -                                    |
|                | §22.913(a)(2)                                                                              | Effective Radiated Power (Band 5)                                                                       | ERP < 7 Watt                        |        |                                      |
|                | §27.50(b)(10)<br>§27.50(c)(10)                                                             | Effective Radiated Power (Band 12) (Band 13) (Band 17)                                                  | ERP < 3 Watt                        |        |                                      |
|                | §24.232(c)<br>§27.50(h)(2)                                                                 | Equivalent Isotropic Radiated Power (Band 2)(Band 7)(Band 41)                                           | EIRP < 2Watt                        |        |                                      |
|                | §27.50(d)(4)                                                                               | Equivalent Isotropic Radiated Power (Band 4) (Band 66)                                                  | EIRP < 1Watt                        |        |                                      |
| 4.4            | §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 (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 26) (Band 66) | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit 4.17 dB at 15161.000 MHz |
|                | §2.1053<br>§27.53(m)(4)                                                                    | Radiated Spurious Emission (Band 7)(Band 41)                                                            | < 55+10log <sub>10</sub> (P[Watts]) |        |                                      |

# 1 General Description

## 1.1 Applicant

**Wistron Corporation**

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

## 1.2 Manufacturer

**Wistron Corporation**

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

## 1.3 Product Feature of Equipment Under Test

| Product Feature                        |                                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Equipment</b>                       | Notebook Computer                                                                                |
| <b>Brand Name</b>                      | Lenovo                                                                                           |
| <b>Model Name</b>                      | TP00076D                                                                                         |
| <b>FCC ID</b>                          | PU5-TP00076DUC                                                                                   |
| <b>Sample 1</b>                        | EUT with Silver Case                                                                             |
| <b>Sample 2</b>                        | EUT with Black Case                                                                              |
| <b>Integrated WWAN Module</b>          | Brand Name: Fibocom<br>Model Name: L850-GL                                                       |
| <b>Integrated WLAN Module</b>          | Brand Name: Intel<br>Model Name: 8265NGW                                                         |
| <b>EUT supports Radios application</b> | WCDMA/HSPA/LTE<br>WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| <b>EUT Stage</b>                       | Production Unit                                                                                  |

### Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. Equipment: Fibocom L850-GL and Intel 8265NGW tested inside of Lenovo Notebook Computer.

| WWAN Antenna Information |                     |                |                  | 3G & LTE |
|--------------------------|---------------------|----------------|------------------|----------|
| <b>Antenna 1</b>         | <b>Manufacturer</b> | Jiengtai       | <b>Peak gain</b> | 2.2      |
|                          | <b>Part Number</b>  | 025.90167.0001 | <b>Type</b>      | PIFA     |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 26 : 824.7MHz ~ 848.3 MHz<br>LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66 : 1710.7 MHz ~ 1754.3 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 26 : 869.7MHz ~ 893.3MHz<br>LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66 : 2110.7 MHz ~ 2154.3 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 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz<br>LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz |
| <b>Maximum Output Power to Antenna</b>  | LTE Band 2 : 23.90 dBm<br>LTE Band 4 : 23.65 dBm<br>LTE Band 5 : 23.92 dBm<br>LTE Band 7 : 22.72 dBm<br>LTE Band 12 : 23.47 dBm<br>LTE Band 13 : 23.53 dBm<br>LTE Band 17 : 23.48 dBm<br>LTE Band 26 : 23.54 dBm<br>LTE Band 41 : 23.16 dBm<br>LTE Band 66 : 23.88 dBm                                                                                                                                                                                                                       |
| <b>Type of Modulation</b>               | QPSK / 16QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## 1.5 Modification of EUT

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

## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                       |
| Test Site Location | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. |
| Test Site No.      | Sporton Site No.                                                                                                 |
|                    | TH05-HY                                                                                                          |

|                    |                                                                                        |
|--------------------|----------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                             |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist,<br>Taoyuan City, Taiwan (R.O.C.) |
| Test Site No.      | Sporton Site No.                                                                       |
|                    | 03CH13-HY                                                                              |

## 1.7 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

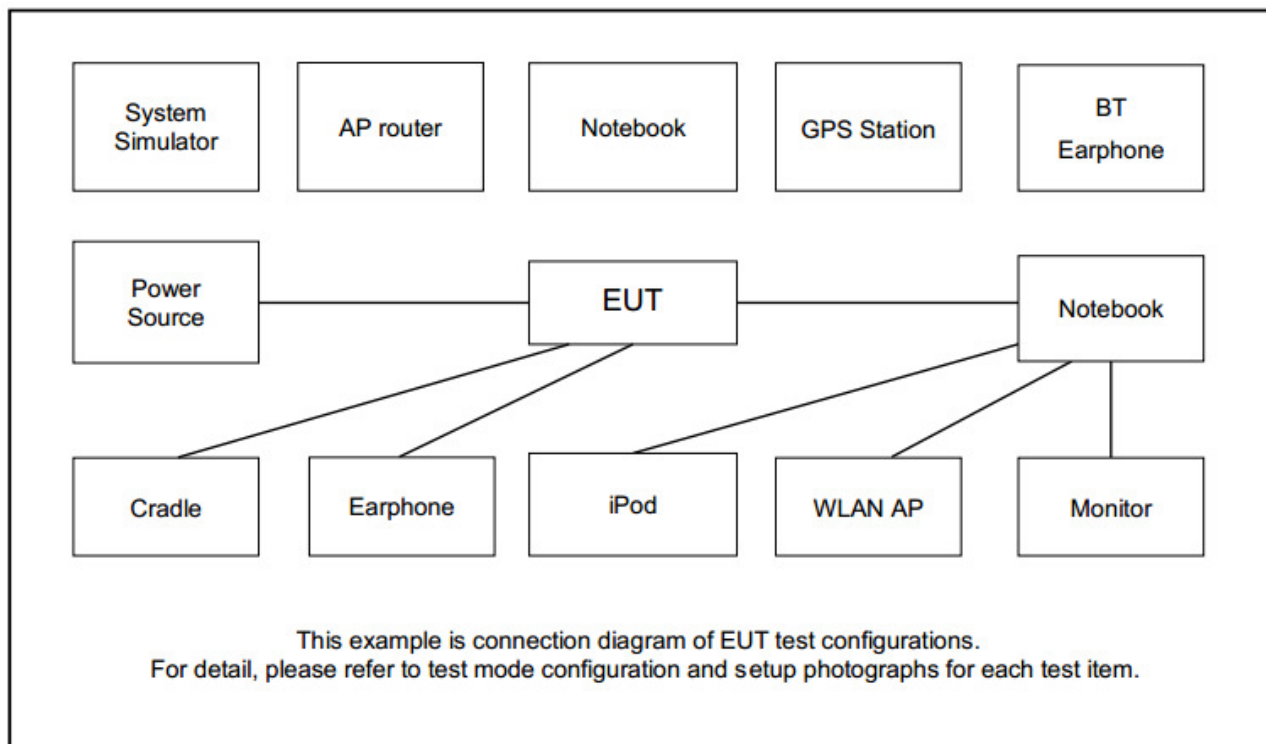
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| Test Items              | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|-------------------------|------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                         |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full | L            | M | H |
| Max.<br>Output<br>Power | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 4    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 5    | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 12   | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 17   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
|                         | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    | ✓    | ✓    | ✓            | ✓ | ✓ |
| E.R.P./<br>E.I.R.P.     | 2    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 4    | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 5    | ✓               | ✓ | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 7    | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 12   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 13   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 17   | -               | - | ✓ | ✓  | -  | -  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 26   | ✓               | ✓ | ✓ | ✓  | ✓  | -  | ✓          | ✓     | ✓    | ✓    |      | ✓            | ✓ | ✓ |
|                         | 41   | -               | - | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |
|                         | 66   | ✓               | ✓ | ✓ | ✓  | ✓  | ✓  | ✓          | ✓     | ✓    |      |      | ✓            | ✓ | ✓ |

| Test Items                       | Band                                                                                                                                                                                                                                                                                                                                                                               | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                                  |                                                                                                                                                                                                                                                                                                                                                                                    | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full | L            | M | H |
| Radiated<br>Spurious<br>Emission | 2                                                                                                                                                                                                                                                                                                                                                                                  | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 4                                                                                                                                                                                                                                                                                                                                                                                  | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 5                                                                                                                                                                                                                                                                                                                                                                                  | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 7                                                                                                                                                                                                                                                                                                                                                                                  | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 12                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 13                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 17                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 26                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 41                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
|                                  | 66                                                                                                                                                                                                                                                                                                                                                                                 | Worst case      |   |   |    |    |    |            |       |      |      |      | v            | v | v |
| Note                             | 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        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |

## 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 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    | 836.5  | 844     |
| 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 41 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 39750  | 40620  | 41490   |
|                                        | Frequency              | 2506   | 2593   | 2680    |
| 15                                     | Channel                | 39725  | 40620  | 41515   |
|                                        | Frequency              | 2503.5 | 2593   | 2682.5  |
| 10                                     | Channel                | 39700  | 40620  | 41540   |
|                                        | Frequency              | 2501   | 2593   | 2685    |
| 5                                      | Channel                | 39675  | 40620  | 41565   |
|                                        | Frequency              | 2498.5 | 2593   | 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  |

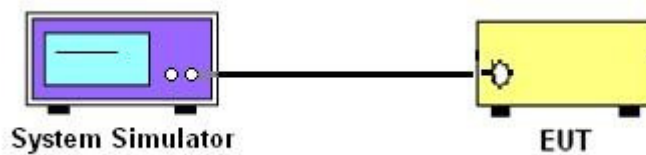
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.2 Test Setup

##### 3.2.1 Conducted Output Power



#### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and ERP/EIRP

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

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.

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

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

#### 3.4.2 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.

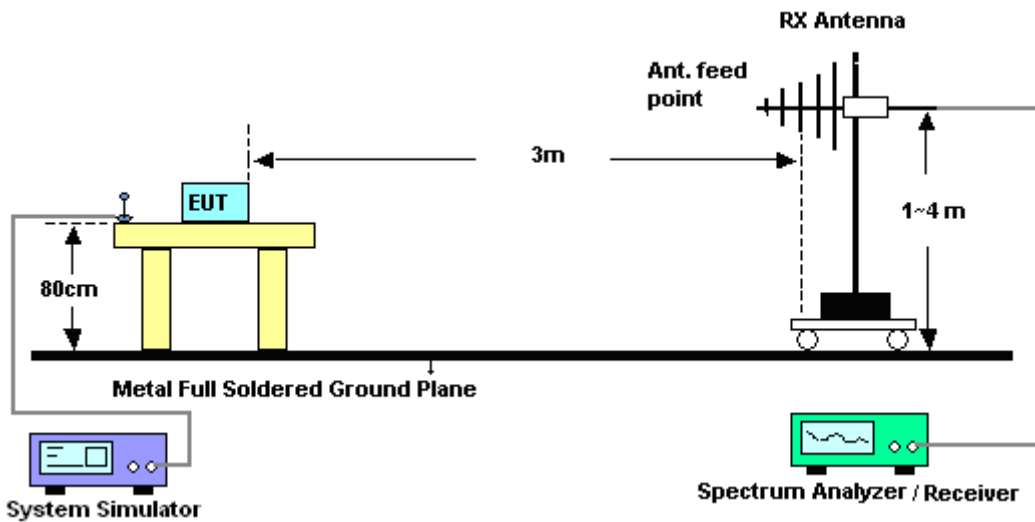
## 4 Radiated Test Items

### 4.1 Measuring Instruments

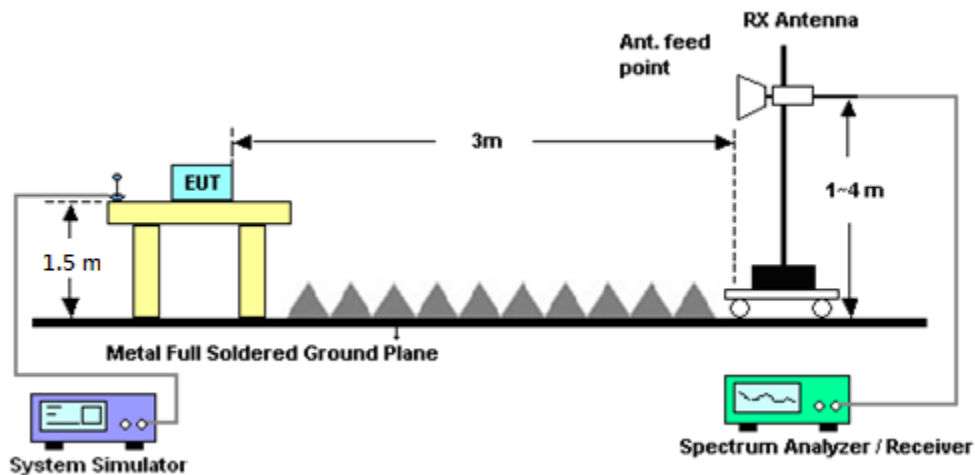
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

## **4.4 Radiated Spurious Emission**

### **4.4.1 Description of Radiated Spurious Emission**

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. 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 Band 7, 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 12,13,17

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.

### **4.4.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. 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.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. 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.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. 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)

12. For Band 7, 41:

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

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

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



## 5 List of Measuring Equipment

| Instrument           | Manufacturer      | Model No.               | Serial No.     | Characteristics                | Calibration Date | Test Date                     | Due Date      | Remark                |
|----------------------|-------------------|-------------------------|----------------|--------------------------------|------------------|-------------------------------|---------------|-----------------------|
| LTE Base Station     | Anritsu           | MT8820C                 | 6201432821     | GSM/GPRS /WCDMA/LTE            | Oct. 13, 2017    | Dec. 29, 2017                 | Oct. 12, 2018 | Conducted (TH05-HY)   |
| Amplifier            | MITEQ             | TTA1840-35-HG           | 1871923        | 18GHz~40GHz, V SWR : 2.5:1 max | Jul. 18, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Jul. 17, 2018 | Radiation (03CH13-HY) |
| Bilog Antenna        | TESEQ             | CBL 6111D&N-6-06        | 35414&AT-N0602 | 30MHz~1GHz                     | Oct. 14, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Oct. 13, 2018 | Radiation (03CH13-HY) |
| Amplifier            | Sonoma-Instrument | 310 N                   | 187282         | 9KHz~1GHz                      | Dec. 21, 2016    | Jan. 12, 2018 ~ Jan. 16, 2018 | Dec. 20, 2018 | Radiation (03CH13-HY) |
| Horn Antenna         | SCHWARZBECK       | BBHA 9120 D             | 9120D-1241     | 1GHz ~ 18GHz                   | Jun. 15, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Jun. 14, 2018 | Radiation (03CH13-HY) |
| Preamplifier         | MITEQ             | AMF-7D-0010 1800-30-10P | 1590074        | 1GHz~18GHz                     | May. 22, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | May. 21, 2018 | Radiation (03CH13-HY) |
| Spectrum Analyzer    | Keysight          | N9010A                  | MY55370526     | 10Hz~44GHz                     | Mar. 15, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Mar. 14, 2018 | Radiation (03CH13-HY) |
| Controller           | EMEC              | EM1000                  | N/A            | Control Turn table & Ant Mast  | N/A              | Jan. 12, 2018 ~ Jan. 16, 2018 | N/A           | Radiation (03CH13-HY) |
| Antenna Mast         | EMEC              | AM-BS-4500-B            | N/A            | 1m~4m                          | N/A              | Jan. 12, 2018 ~ Jan. 16, 2018 | N/A           | Radiation (03CH13-HY) |
| Turn Table           | EMEC              | TT2000                  | N/A            | 0~360 Degree                   | N/A              | Jan. 12, 2018 ~ Jan. 16, 2018 | N/A           | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK       | BBHA 9170               | BBHA9170251    | 18GHz- 40GHz                   | Nov. 10, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Nov. 09, 2018 | Radiation (03CH13-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK       | BBHA 9170               | BBHA9170584    | 18GHz- 40GHz                   | Nov. 27, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Nov. 26, 2018 | Radiation (03CH13-HY) |
| Horn Antenna         | SCHWARZBECK       | BBHA 9120 D             | 9120D-1522     | 1G~18GHz                       | Mar. 17, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Mar. 16, 2018 | Radiation (03CH13-HY) |
| Signal Generator     | Rohde & Schwarz   | SMF100A                 | 101107         | 100kHz~40GHz                   | May. 22, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | May. 21, 2018 | Radiation (03CH13-HY) |
| Preamplifier         | Keysight          | 83017A                  | MY53270264     | 1GHz ~ 26.5GHz                 | Dec. 05, 2017    | Jan. 12, 2018 ~ Jan. 16, 2018 | Dec. 04, 2018 | Radiation (03CH13-HY) |



## 6 Uncertainty of Evaluation

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

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

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

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.48 |
|--------------------------------------------------------------------------|------|

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

|                                                                          |      |
|--------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 3.92 |
|--------------------------------------------------------------------------|------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.90  | 23.59  | 23.36   |
| 20                                     | 1       | 49        |        | 23.57  | 23.69  | 22.99   |
| 20                                     | 1       | 99        |        | 23.47  | 23.36  | 23.10   |
| 20                                     | 50      | 0         |        | 22.65  | 22.67  | 22.17   |
| 20                                     | 50      | 24        |        | 22.50  | 22.66  | 22.05   |
| 20                                     | 50      | 50        |        | 22.36  | 22.50  | 22.10   |
| 20                                     | 100     | 0         |        | 22.64  | 22.70  | 22.32   |
| 20                                     | 1       | 0         | 16-QAM | 22.87  | 22.84  | 22.63   |
| 20                                     | 1       | 49        |        | 22.82  | 22.96  | 22.23   |
| 20                                     | 1       | 99        |        | 22.69  | 22.68  | 22.36   |
| 20                                     | 50      | 0         |        | 21.72  | 21.69  | 21.22   |
| 20                                     | 50      | 24        |        | 21.59  | 21.69  | 21.08   |
| 20                                     | 50      | 50        |        | 21.42  | 21.53  | 21.13   |
| 20                                     | 100     | 0         |        | 21.68  | 21.73  | 21.35   |
| 15                                     | 1       | 0         | QPSK   | 23.75  | 23.57  | 23.12   |
| 15                                     | 1       | 37        |        | 23.53  | 23.58  | 23.00   |
| 15                                     | 1       | 74        |        | 23.26  | 23.41  | 23.05   |
| 15                                     | 36      | 0         |        | 22.60  | 22.61  | 21.90   |
| 15                                     | 36      | 20        |        | 22.52  | 22.56  | 21.98   |
| 15                                     | 36      | 39        |        | 22.39  | 22.47  | 22.02   |
| 15                                     | 75      | 0         |        | 22.53  | 22.55  | 22.11   |
| 15                                     | 1       | 0         | 16-QAM | 22.85  | 22.77  | 22.29   |
| 15                                     | 1       | 37        |        | 22.83  | 22.80  | 22.16   |
| 15                                     | 1       | 74        |        | 22.53  | 22.64  | 22.23   |
| 15                                     | 36      | 0         |        | 21.65  | 21.68  | 20.95   |
| 15                                     | 36      | 20        |        | 21.58  | 21.65  | 21.05   |
| 15                                     | 36      | 39        |        | 21.45  | 21.57  | 21.11   |
| 15                                     | 75      | 0         |        | 21.56  | 21.61  | 21.14   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.75  | 23.68  | 22.94   |
| 10                                     | 1       | 25        |        | 23.54  | 23.62  | 22.99   |
| 10                                     | 1       | 49        |        | 23.42  | 23.57  | 23.04   |
| 10                                     | 25      | 0         |        | 22.66  | 22.69  | 22.00   |
| 10                                     | 25      | 12        |        | 22.56  | 22.67  | 22.02   |
| 10                                     | 25      | 25        |        | 22.50  | 22.60  | 22.08   |
| 10                                     | 50      | 0         |        | 22.52  | 22.56  | 22.06   |
| 10                                     | 1       | 0         | 16-QAM | 22.84  | 22.88  | 22.16   |
| 10                                     | 1       | 25        |        | 22.86  | 22.81  | 22.20   |
| 10                                     | 1       | 49        |        | 22.71  | 22.80  | 22.28   |
| 10                                     | 25      | 0         |        | 21.75  | 21.72  | 21.03   |
| 10                                     | 25      | 12        |        | 21.67  | 21.68  | 21.05   |
| 10                                     | 25      | 25        |        | 21.61  | 21.60  | 21.11   |
| 10                                     | 50      | 0         |        | 21.62  | 21.60  | 21.10   |
| 5                                      | 1       | 0         | QPSK   | 23.71  | 23.64  | 22.99   |
| 5                                      | 1       | 12        |        | 23.62  | 23.52  | 23.01   |
| 5                                      | 1       | 24        |        | 23.55  | 23.55  | 23.00   |
| 5                                      | 12      | 0         |        | 23.70  | 23.59  | 23.01   |
| 5                                      | 12      | 7         |        | 23.62  | 23.54  | 23.02   |
| 5                                      | 12      | 13        |        | 23.55  | 23.57  | 23.03   |
| 5                                      | 25      | 0         |        | 22.64  | 22.53  | 22.02   |
| 5                                      | 1       | 0         | 16-QAM | 22.98  | 22.89  | 22.24   |
| 5                                      | 1       | 12        |        | 22.87  | 22.79  | 22.25   |
| 5                                      | 1       | 24        |        | 22.83  | 22.81  | 22.27   |
| 5                                      | 12      | 0         |        | 22.74  | 22.61  | 22.03   |
| 5                                      | 12      | 7         |        | 22.67  | 22.56  | 22.05   |
| 5                                      | 12      | 13        |        | 22.59  | 22.58  | 22.05   |
| 5                                      | 25      | 0         |        | 21.66  | 21.52  | 21.04   |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 23.30  | 23.18  | 22.66   |
| 3                                      | 1       | 8         |        | 23.28  | 23.19  | 22.71   |
| 3                                      | 1       | 14        |        | 23.23  | 23.17  | 22.65   |
| 3                                      | 8       | 0         |        | 22.33  | 22.21  | 21.68   |
| 3                                      | 8       | 4         |        | 22.26  | 22.14  | 21.66   |
| 3                                      | 8       | 7         |        | 22.26  | 22.15  | 21.63   |
| 3                                      | 15      | 0         |        | 22.25  | 22.13  | 21.63   |
| 3                                      | 1       | 0         | 16-QAM | 22.57  | 22.46  | 21.84   |
| 3                                      | 1       | 8         |        | 22.58  | 22.48  | 21.89   |
| 3                                      | 1       | 14        |        | 22.51  | 22.45  | 21.83   |
| 3                                      | 8       | 0         |        | 21.40  | 21.31  | 20.70   |
| 3                                      | 8       | 4         |        | 21.33  | 21.25  | 20.68   |
| 3                                      | 8       | 7         |        | 21.33  | 21.26  | 20.70   |
| 3                                      | 15      | 0         |        | 21.26  | 21.24  | 20.69   |
| 1.4                                    | 1       | 0         | QPSK   | 23.35  | 23.28  | 22.73   |
| 1.4                                    | 1       | 3         |        | 23.29  | 23.20  | 22.64   |
| 1.4                                    | 1       | 5         |        | 23.32  | 23.24  | 22.66   |
| 1.4                                    | 3       | 0         |        | 23.30  | 23.25  | 22.66   |
| 1.4                                    | 3       | 1         |        | 23.29  | 23.25  | 22.65   |
| 1.4                                    | 3       | 3         |        | 23.31  | 23.21  | 22.65   |
| 1.4                                    | 6       | 0         |        | 22.28  | 22.18  | 21.68   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.57  | 22.54  | 21.93   |
| 1.4                                    | 1       | 3         |        | 22.58  | 22.44  | 21.89   |
| 1.4                                    | 1       | 5         |        | 22.64  | 22.47  | 21.89   |
| 1.4                                    | 3       | 0         |        | 22.40  | 22.31  | 21.76   |
| 1.4                                    | 3       | 1         |        | 22.39  | 22.32  | 21.75   |
| 1.4                                    | 3       | 3         |        | 22.40  | 22.31  | 21.76   |
| 1.4                                    | 6       | 0         |        | 21.45  | 21.28  | 20.73   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.12  | 23.65  | 23.15   |
| 20                                     | 1       | 49        |        | 23.30  | 23.11  | 23.28   |
| 20                                     | 1       | 99        |        | 23.14  | 23.01  | 23.64   |
| 20                                     | 50      | 0         |        | 22.26  | 22.24  | 22.05   |
| 20                                     | 50      | 24        |        | 22.29  | 22.09  | 22.33   |
| 20                                     | 50      | 50        |        | 22.19  | 21.98  | 22.64   |
| 20                                     | 100     | 0         |        | 22.33  | 22.18  | 22.57   |
| 20                                     | 1       | 0         | 16-QAM | 22.34  | 22.58  | 22.36   |
| 20                                     | 1       | 49        |        | 22.49  | 22.35  | 22.48   |
| 20                                     | 1       | 99        |        | 22.36  | 22.24  | 22.84   |
| 20                                     | 50      | 0         |        | 21.29  | 21.28  | 21.14   |
| 20                                     | 50      | 24        |        | 21.31  | 21.16  | 21.36   |
| 20                                     | 50      | 50        |        | 21.22  | 21.04  | 21.65   |
| 20                                     | 100     | 0         |        | 21.33  | 21.21  | 21.56   |
| 15                                     | 1       | 0         | QPSK   | 23.04  | 23.27  | 23.04   |
| 15                                     | 1       | 37        |        | 23.26  | 23.11  | 23.59   |
| 15                                     | 1       | 74        |        | 23.14  | 22.86  | 23.60   |
| 15                                     | 36      | 0         |        | 22.19  | 22.14  | 22.21   |
| 15                                     | 36      | 20        |        | 22.30  | 22.04  | 22.54   |
| 15                                     | 36      | 39        |        | 22.21  | 21.95  | 22.63   |
| 15                                     | 75      | 0         |        | 22.31  | 22.04  | 22.59   |
| 15                                     | 1       | 0         | 16-QAM | 22.29  | 22.43  | 22.23   |
| 15                                     | 1       | 37        |        | 22.50  | 22.27  | 22.74   |
| 15                                     | 1       | 74        |        | 22.41  | 22.05  | 22.80   |
| 15                                     | 36      | 0         |        | 21.24  | 21.21  | 21.25   |
| 15                                     | 36      | 20        |        | 21.34  | 21.16  | 21.64   |
| 15                                     | 36      | 39        |        | 21.26  | 21.06  | 21.71   |
| 15                                     | 75      | 0         |        | 21.33  | 21.12  | 21.70   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.07  | 23.24  | 23.38   |
| 10                                     | 1       | 25        |        | 23.22  | 23.09  | 23.55   |
| 10                                     | 1       | 49        |        | 23.24  | 22.98  | 23.63   |
| 10                                     | 25      | 0         |        | 22.14  | 22.16  | 22.59   |
| 10                                     | 25      | 12        |        | 22.24  | 22.08  | 22.63   |
| 10                                     | 25      | 25        |        | 22.31  | 22.00  | 22.65   |
| 10                                     | 50      | 0         |        | 22.22  | 22.03  | 22.62   |
| 10                                     | 1       | 0         | 16-QAM | 22.32  | 22.44  | 22.59   |
| 10                                     | 1       | 25        |        | 22.48  | 22.31  | 22.87   |
| 10                                     | 1       | 49        |        | 22.53  | 22.21  | 22.88   |
| 10                                     | 25      | 0         |        | 21.22  | 21.27  | 21.62   |
| 10                                     | 25      | 12        |        | 21.25  | 21.19  | 21.72   |
| 10                                     | 25      | 25        |        | 21.32  | 21.09  | 21.76   |
| 10                                     | 50      | 0         |        | 21.22  | 21.15  | 21.70   |
| 5                                      | 1       | 0         | QPSK   | 22.97  | 23.17  | 23.63   |
| 5                                      | 1       | 12        |        | 23.02  | 23.07  | 23.62   |
| 5                                      | 1       | 24        |        | 23.13  | 22.94  | 23.54   |
| 5                                      | 12      | 0         |        | 22.98  | 23.07  | 23.50   |
| 5                                      | 12      | 7         |        | 23.06  | 23.02  | 23.47   |
| 5                                      | 12      | 13        |        | 23.08  | 22.99  | 23.55   |
| 5                                      | 25      | 0         |        | 22.06  | 22.05  | 22.67   |
| 5                                      | 1       | 0         | 16-QAM | 22.18  | 22.37  | 22.90   |
| 5                                      | 1       | 12        |        | 22.27  | 22.25  | 22.86   |
| 5                                      | 1       | 24        |        | 22.35  | 22.20  | 22.92   |
| 5                                      | 12      | 0         |        | 22.08  | 22.13  | 22.71   |
| 5                                      | 12      | 7         |        | 22.14  | 22.07  | 22.68   |
| 5                                      | 12      | 13        |        | 22.17  | 22.04  | 22.66   |
| 5                                      | 25      | 0         |        | 21.11  | 21.07  | 21.67   |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 22.64  | 22.82  | 23.30   |
| 3                                      | 1       | 8         |        | 22.67  | 22.76  | 23.31   |
| 3                                      | 1       | 14        |        | 22.72  | 22.67  | 23.31   |
| 3                                      | 8       | 0         |        | 21.66  | 21.79  | 22.35   |
| 3                                      | 8       | 4         |        | 21.65  | 21.76  | 22.29   |
| 3                                      | 8       | 7         |        | 21.71  | 21.74  | 22.32   |
| 3                                      | 15      | 0         |        | 21.66  | 21.78  | 22.29   |
| 3                                      | 1       | 0         | 16-QAM | 21.86  | 22.00  | 22.51   |
| 3                                      | 1       | 8         |        | 21.87  | 21.98  | 22.52   |
| 3                                      | 1       | 14        |        | 21.91  | 21.90  | 22.52   |
| 3                                      | 8       | 0         |        | 20.76  | 20.87  | 21.40   |
| 3                                      | 8       | 4         |        | 20.75  | 20.84  | 21.35   |
| 3                                      | 8       | 7         |        | 20.83  | 20.88  | 21.37   |
| 3                                      | 15      | 0         |        | 20.73  | 20.88  | 21.32   |
| 1.4                                    | 1       | 0         | QPSK   | 22.68  | 22.77  | 23.32   |
| 1.4                                    | 1       | 3         |        | 22.64  | 22.72  | 23.32   |
| 1.4                                    | 1       | 5         |        | 22.68  | 22.74  | 23.37   |
| 1.4                                    | 3       | 0         |        | 22.68  | 22.76  | 23.36   |
| 1.4                                    | 3       | 1         |        | 22.67  | 22.74  | 23.31   |
| 1.4                                    | 3       | 3         |        | 22.68  | 22.75  | 23.32   |
| 1.4                                    | 6       | 0         |        | 21.68  | 21.76  | 22.33   |
| 1.4                                    | 1       | 0         | 16-QAM | 21.93  | 22.06  | 22.55   |
| 1.4                                    | 1       | 3         |        | 21.88  | 22.01  | 22.53   |
| 1.4                                    | 1       | 5         |        | 21.90  | 22.02  | 22.57   |
| 1.4                                    | 3       | 0         |        | 21.71  | 21.84  | 22.36   |
| 1.4                                    | 3       | 1         |        | 21.70  | 21.83  | 22.34   |
| 1.4                                    | 3       | 3         |        | 21.70  | 21.82  | 22.38   |
| 1.4                                    | 6       | 0         |        | 20.70  | 20.82  | 21.36   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.90  | 23.92  | 23.83   |
| 10                                     | 1       | 25        |        | 23.84  | 23.87  | 23.63   |
| 10                                     | 1       | 49        |        | 23.87  | 23.71  | 23.80   |
| 10                                     | 25      | 0         |        | 22.94  | 22.90  | 22.84   |
| 10                                     | 25      | 12        |        | 22.92  | 22.92  | 22.73   |
| 10                                     | 25      | 25        |        | 22.90  | 22.86  | 22.83   |
| 10                                     | 50      | 0         |        | 22.96  | 22.98  | 22.85   |
| 10                                     | 1       | 0         | 16-QAM | 23.28  | 23.28  | 23.20   |
| 10                                     | 1       | 25        |        | 23.21  | 23.26  | 22.96   |
| 10                                     | 1       | 49        |        | 23.26  | 23.07  | 23.15   |
| 10                                     | 25      | 0         |        | 22.05  | 22.00  | 21.81   |
| 10                                     | 25      | 12        |        | 22.02  | 22.03  | 21.74   |
| 10                                     | 25      | 25        |        | 22.01  | 21.90  | 21.87   |
| 10                                     | 50      | 0         |        | 22.10  | 22.03  | 21.93   |
| 5                                      | 1       | 0         | QPSK   | 23.88  | 23.82  | 23.60   |
| 5                                      | 1       | 12        |        | 23.83  | 23.85  | 23.65   |
| 5                                      | 1       | 24        |        | 23.86  | 23.78  | 23.77   |
| 5                                      | 12      | 0         |        | 22.95  | 22.83  | 22.73   |
| 5                                      | 12      | 7         |        | 22.89  | 22.86  | 22.68   |
| 5                                      | 12      | 13        |        | 22.85  | 22.84  | 22.77   |
| 5                                      | 25      | 0         |        | 22.90  | 22.90  | 22.71   |
| 5                                      | 1       | 0         | 16-QAM | 23.25  | 23.19  | 22.90   |
| 5                                      | 1       | 12        |        | 23.16  | 23.21  | 22.96   |
| 5                                      | 1       | 24        |        | 23.22  | 23.16  | 23.12   |
| 5                                      | 12      | 0         |        | 22.04  | 21.96  | 21.78   |
| 5                                      | 12      | 7         |        | 21.97  | 21.97  | 21.73   |
| 5                                      | 12      | 13        |        | 21.93  | 21.91  | 21.83   |
| 5                                      | 25      | 0         |        | 21.96  | 21.95  | 21.79   |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 23.79  | 23.75  | 23.59   |
| 3                                      | 1       | 8         |        | 23.79  | 23.77  | 23.72   |
| 3                                      | 1       | 14        |        | 23.70  | 23.68  | 23.69   |
| 3                                      | 8       | 0         |        | 22.80  | 22.74  | 22.59   |
| 3                                      | 8       | 4         |        | 22.85  | 22.74  | 22.68   |
| 3                                      | 8       | 7         |        | 22.83  | 22.70  | 22.70   |
| 3                                      | 15      | 0         |        | 22.85  | 22.75  | 22.63   |
| 3                                      | 1       | 0         | 16-QAM | 23.17  | 23.06  | 22.89   |
| 3                                      | 1       | 8         |        | 23.14  | 23.10  | 23.04   |
| 3                                      | 1       | 14        |        | 23.04  | 23.03  | 23.03   |
| 3                                      | 8       | 0         |        | 21.92  | 21.86  | 21.75   |
| 3                                      | 8       | 4         |        | 21.90  | 21.86  | 21.80   |
| 3                                      | 8       | 7         |        | 21.89  | 21.83  | 21.82   |
| 3                                      | 15      | 0         |        | 21.89  | 21.83  | 21.81   |
| 1.4                                    | 1       | 0         | QPSK   | 23.82  | 23.74  | 23.69   |
| 1.4                                    | 1       | 3         |        | 23.80  | 23.73  | 23.67   |
| 1.4                                    | 1       | 5         |        | 23.87  | 23.76  | 23.70   |
| 1.4                                    | 3       | 0         |        | 23.80  | 23.72  | 23.68   |
| 1.4                                    | 3       | 1         |        | 23.78  | 23.72  | 23.67   |
| 1.4                                    | 3       | 3         |        | 23.76  | 23.74  | 23.69   |
| 1.4                                    | 6       | 0         |        | 22.81  | 22.76  | 22.71   |
| 1.4                                    | 1       | 0         | 16-QAM | 23.28  | 23.08  | 23.10   |
| 1.4                                    | 1       | 3         |        | 23.20  | 23.07  | 23.10   |
| 1.4                                    | 1       | 5         |        | 23.26  | 23.11  | 23.14   |
| 1.4                                    | 3       | 0         |        | 22.89  | 22.86  | 22.78   |
| 1.4                                    | 3       | 1         |        | 22.87  | 22.84  | 22.79   |
| 1.4                                    | 3       | 3         |        | 22.85  | 22.86  | 22.81   |
| 1.4                                    | 6       | 0         |        | 21.93  | 21.86  | 21.81   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 22.53  | 22.72  | 22.58   |
| 20                                     | 1       | 49        |        | 22.66  | 22.63  | 22.63   |
| 20                                     | 1       | 99        |        | 22.63  | 22.67  | 22.70   |
| 20                                     | 50      | 0         |        | 21.65  | 21.72  | 21.70   |
| 20                                     | 50      | 24        |        | 21.72  | 21.72  | 21.75   |
| 20                                     | 50      | 50        |        | 21.76  | 21.74  | 21.82   |
| 20                                     | 100     | 0         |        | 21.83  | 21.83  | 21.85   |
| 20                                     | 1       | 0         | 16-QAM | 21.64  | 21.83  | 21.82   |
| 20                                     | 1       | 49        |        | 21.84  | 21.84  | 21.87   |
| 20                                     | 1       | 99        |        | 21.93  | 21.86  | 21.95   |
| 20                                     | 50      | 0         |        | 20.71  | 20.74  | 20.74   |
| 20                                     | 50      | 24        |        | 20.77  | 20.74  | 20.78   |
| 20                                     | 50      | 50        |        | 20.80  | 20.74  | 20.84   |
| 20                                     | 100     | 0         |        | 20.86  | 20.84  | 20.89   |
| 15                                     | 1       | 0         | QPSK   | 22.52  | 22.60  | 22.57   |
| 15                                     | 1       | 37        |        | 22.65  | 22.63  | 22.67   |
| 15                                     | 1       | 74        |        | 22.66  | 22.63  | 22.65   |
| 15                                     | 36      | 0         |        | 21.66  | 21.71  | 21.72   |
| 15                                     | 36      | 20        |        | 21.74  | 21.73  | 21.77   |
| 15                                     | 36      | 39        |        | 21.75  | 21.72  | 21.79   |
| 15                                     | 75      | 0         |        | 21.76  | 21.74  | 21.74   |
| 15                                     | 1       | 0         | 16-QAM | 21.67  | 21.81  | 21.74   |
| 15                                     | 1       | 37        |        | 21.84  | 21.84  | 21.80   |
| 15                                     | 1       | 74        |        | 21.89  | 21.81  | 21.82   |
| 15                                     | 36      | 0         |        | 20.73  | 20.77  | 20.74   |
| 15                                     | 36      | 20        |        | 20.80  | 20.77  | 20.84   |
| 15                                     | 36      | 39        |        | 20.80  | 20.76  | 20.86   |
| 15                                     | 75      | 0         |        | 20.79  | 20.78  | 20.81   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 22.53  | 22.63  | 22.63   |
| 10                                     | 1       | 25        |        | 22.57  | 22.62  | 22.66   |
| 10                                     | 1       | 49        |        | 22.66  | 22.64  | 22.60   |
| 10                                     | 25      | 0         |        | 21.72  | 21.74  | 21.73   |
| 10                                     | 25      | 12        |        | 21.72  | 21.74  | 21.76   |
| 10                                     | 25      | 25        |        | 21.80  | 21.75  | 21.77   |
| 10                                     | 50      | 0         |        | 21.67  | 21.73  | 21.74   |
| 10                                     | 1       | 0         | 16-QAM | 21.69  | 21.88  | 21.82   |
| 10                                     | 1       | 25        |        | 21.76  | 21.88  | 21.85   |
| 10                                     | 1       | 49        |        | 21.83  | 21.89  | 21.85   |
| 10                                     | 25      | 0         |        | 20.73  | 20.79  | 20.77   |
| 10                                     | 25      | 12        |        | 20.73  | 20.78  | 20.79   |
| 10                                     | 25      | 25        |        | 20.80  | 20.78  | 20.81   |
| 10                                     | 50      | 0         |        | 20.70  | 20.76  | 20.77   |
| 5                                      | 1       | 0         | QPSK   | 22.52  | 22.59  | 22.64   |
| 5                                      | 1       | 12        |        | 22.55  | 22.58  | 22.64   |
| 5                                      | 1       | 24        |        | 22.57  | 22.62  | 22.64   |
| 5                                      | 12      | 0         |        | 21.58  | 21.65  | 21.73   |
| 5                                      | 12      | 7         |        | 21.64  | 21.65  | 21.73   |
| 5                                      | 12      | 13        |        | 21.66  | 21.66  | 21.70   |
| 5                                      | 25      | 0         |        | 21.67  | 21.66  | 21.76   |
| 5                                      | 1       | 0         | 16-QAM | 21.76  | 21.82  | 21.92   |
| 5                                      | 1       | 12        |        | 21.80  | 21.81  | 21.91   |
| 5                                      | 1       | 24        |        | 21.83  | 21.82  | 21.87   |
| 5                                      | 12      | 0         |        | 20.58  | 20.67  | 20.76   |
| 5                                      | 12      | 7         |        | 20.64  | 20.66  | 20.77   |
| 5                                      | 12      | 13        |        | 20.67  | 20.66  | 20.72   |
| 5                                      | 25      | 0         |        | 20.66  | 20.65  | 20.76   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 23.18  | 23.47  | 23.40   |
| 10                                      | 1       | 25        |        | 23.41  | 23.40  | 23.35   |
| 10                                      | 1       | 49        |        | 23.35  | 23.35  | 23.46   |
| 10                                      | 25      | 0         |        | 22.41  | 22.53  | 22.39   |
| 10                                      | 25      | 12        |        | 22.52  | 22.48  | 22.40   |
| 10                                      | 25      | 25        |        | 22.45  | 22.43  | 22.51   |
| 10                                      | 50      | 0         |        | 22.52  | 22.55  | 22.51   |
| 10                                      | 1       | 0         | 16-QAM | 22.58  | 22.79  | 22.83   |
| 10                                      | 1       | 25        |        | 22.84  | 22.78  | 22.78   |
| 10                                      | 1       | 49        |        | 22.75  | 22.76  | 22.91   |
| 10                                      | 25      | 0         |        | 21.51  | 21.51  | 21.51   |
| 10                                      | 25      | 12        |        | 21.60  | 21.54  | 21.51   |
| 10                                      | 25      | 25        |        | 21.60  | 21.45  | 21.59   |
| 10                                      | 50      | 0         |        | 21.56  | 21.57  | 21.64   |
| 5                                       | 1       | 0         | QPSK   | 23.21  | 23.36  | 23.35   |
| 5                                       | 1       | 12        |        | 23.37  | 23.37  | 23.39   |
| 5                                       | 1       | 24        |        | 23.39  | 23.33  | 23.41   |
| 5                                       | 12      | 0         |        | 22.25  | 22.40  | 22.36   |
| 5                                       | 12      | 7         |        | 22.35  | 22.42  | 22.37   |
| 5                                       | 12      | 13        |        | 22.37  | 22.37  | 22.47   |
| 5                                       | 25      | 0         |        | 22.40  | 22.43  | 22.43   |
| 5                                       | 1       | 0         | 16-QAM | 22.56  | 22.74  | 22.67   |
| 5                                       | 1       | 12        |        | 22.72  | 22.72  | 22.73   |
| 5                                       | 1       | 24        |        | 22.87  | 22.68  | 22.86   |
| 5                                       | 12      | 0         |        | 21.33  | 21.50  | 21.43   |
| 5                                       | 12      | 7         |        | 21.41  | 21.52  | 21.42   |
| 5                                       | 12      | 13        |        | 21.43  | 21.49  | 21.52   |
| 5                                       | 25      | 0         |        | 21.39  | 21.55  | 21.41   |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 23.19  | 23.27  | 23.25   |
| 3                                       | 1       | 8         |        | 23.24  | 23.32  | 23.34   |
| 3                                       | 1       | 14        |        | 23.28  | 23.22  | 23.35   |
| 3                                       | 8       | 0         |        | 22.19  | 22.34  | 22.27   |
| 3                                       | 8       | 4         |        | 22.18  | 22.34  | 22.33   |
| 3                                       | 8       | 7         |        | 22.26  | 22.30  | 22.35   |
| 3                                       | 15      | 0         |        | 22.20  | 22.35  | 22.28   |
| 3                                       | 1       | 0         | 16-QAM | 22.55  | 22.65  | 22.62   |
| 3                                       | 1       | 8         |        | 22.60  | 22.71  | 22.71   |
| 3                                       | 1       | 14        |        | 22.69  | 22.59  | 22.71   |
| 3                                       | 8       | 0         |        | 21.30  | 21.46  | 21.35   |
| 3                                       | 8       | 4         |        | 21.30  | 21.45  | 21.41   |
| 3                                       | 8       | 7         |        | 21.40  | 21.38  | 21.44   |
| 3                                       | 15      | 0         |        | 21.27  | 21.45  | 21.42   |
| 1.4                                     | 1       | 0         | QPSK   | 23.18  | 23.34  | 23.36   |
| 1.4                                     | 1       | 3         |        | 23.15  | 23.32  | 23.32   |
| 1.4                                     | 1       | 5         |        | 23.18  | 23.34  | 23.40   |
| 1.4                                     | 3       | 0         |        | 23.15  | 23.29  | 23.33   |
| 1.4                                     | 3       | 1         |        | 23.14  | 23.29  | 23.32   |
| 1.4                                     | 3       | 3         |        | 23.15  | 23.31  | 23.38   |
| 1.4                                     | 6       | 0         |        | 22.19  | 22.38  | 22.37   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.49  | 22.71  | 22.71   |
| 1.4                                     | 1       | 3         |        | 22.48  | 22.70  | 22.67   |
| 1.4                                     | 1       | 5         |        | 22.49  | 22.72  | 22.73   |
| 1.4                                     | 3       | 0         |        | 22.27  | 22.45  | 22.44   |
| 1.4                                     | 3       | 1         |        | 22.26  | 22.44  | 22.44   |
| 1.4                                     | 3       | 3         |        | 22.28  | 22.45  | 22.50   |
| 1.4                                     | 6       | 0         |        | 21.30  | 21.48  | 21.45   |



| LTE Band 13 Maximum Average Power [dBm] |         |           |        |        |              |         |
|-----------------------------------------|---------|-----------|--------|--------|--------------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle       | Highest |
| 10                                      | 1       | 0         | QPSK   |        | <b>23.53</b> |         |
| 10                                      | 1       | 25        |        |        | 23.43        |         |
| 10                                      | 1       | 49        |        |        | 23.48        |         |
| 10                                      | 25      | 0         |        |        | 22.51        |         |
| 10                                      | 25      | 12        |        |        | 22.37        |         |
| 10                                      | 25      | 25        |        |        | 22.47        |         |
| 10                                      | 50      | 0         |        |        | 22.50        |         |
| 10                                      | 1       | 0         | 16-QAM |        | 22.76        |         |
| 10                                      | 1       | 25        |        |        | 22.90        |         |
| 10                                      | 1       | 49        |        |        | 22.84        |         |
| 10                                      | 25      | 0         |        |        | 21.59        |         |
| 10                                      | 25      | 12        |        |        | 21.46        |         |
| 10                                      | 25      | 25        |        |        | 21.59        |         |
| 10                                      | 50      | 0         |        |        | 21.60        |         |
| 5                                       | 1       | 0         | QPSK   | 23.34  | 23.52        | 23.41   |
| 5                                       | 1       | 12        |        | 23.48  | 23.45        | 23.39   |
| 5                                       | 1       | 24        |        | 23.46  | 23.48        | 23.42   |
| 5                                       | 12      | 0         |        | 22.45  | 22.39        | 22.42   |
| 5                                       | 12      | 7         |        | 22.53  | 22.36        | 22.37   |
| 5                                       | 12      | 13        |        | 22.43  | 22.46        | 22.44   |
| 5                                       | 25      | 0         |        | 22.57  | 22.39        | 22.42   |
| 5                                       | 1       | 0         | 16-QAM | 22.67  | 22.95        | 22.85   |
| 5                                       | 1       | 12        |        | 22.92  | 22.82        | 22.83   |
| 5                                       | 1       | 24        |        | 22.88  | 22.87        | 22.81   |
| 5                                       | 12      | 0         |        | 21.48  | 21.41        | 21.48   |
| 5                                       | 12      | 7         |        | 21.57  | 21.33        | 21.42   |
| 5                                       | 12      | 13        |        | 21.47  | 21.45        | 21.51   |
| 5                                       | 25      | 0         |        | 21.54  | 21.32        | 21.45   |



| LTE Band 17 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 23.41  | 23.48  | 23.41   |
| 10                                      | 1       | 25        |        | 23.35  | 23.36  | 23.37   |
| 10                                      | 1       | 49        |        | 23.34  | 23.41  | 23.38   |
| 10                                      | 25      | 0         |        | 22.50  | 22.51  | 22.42   |
| 10                                      | 25      | 12        |        | 22.44  | 22.41  | 22.44   |
| 10                                      | 25      | 25        |        | 22.49  | 22.50  | 22.41   |
| 10                                      | 50      | 0         |        | 22.46  | 22.51  | 22.42   |
| 10                                      | 1       | 0         | 16-QAM | 22.83  | 22.83  | 22.79   |
| 10                                      | 1       | 25        |        | 22.75  | 22.76  | 22.74   |
| 10                                      | 1       | 49        |        | 22.87  | 22.95  | 22.89   |
| 10                                      | 25      | 0         |        | 21.57  | 21.59  | 21.47   |
| 10                                      | 25      | 12        |        | 21.50  | 21.48  | 21.46   |
| 10                                      | 25      | 25        |        | 21.55  | 21.56  | 21.55   |
| 10                                      | 50      | 0         |        | 21.55  | 21.58  | 21.62   |
| 5                                       | 1       | 0         | QPSK   | 23.45  | 23.36  | 23.31   |
| 5                                       | 1       | 12        |        | 23.42  | 23.31  | 23.34   |
| 5                                       | 1       | 24        |        | 23.38  | 23.38  | 23.45   |
| 5                                       | 12      | 0         |        | 22.44  | 22.32  | 22.32   |
| 5                                       | 12      | 7         |        | 22.48  | 22.34  | 22.32   |
| 5                                       | 12      | 13        |        | 22.49  | 22.35  | 22.40   |
| 5                                       | 25      | 0         |        | 22.42  | 22.39  | 22.36   |
| 5                                       | 1       | 0         | 16-QAM | 22.78  | 22.74  | 22.69   |
| 5                                       | 1       | 12        |        | 22.77  | 22.67  | 22.72   |
| 5                                       | 1       | 24        |        | 22.72  | 22.75  | 22.83   |
| 5                                       | 12      | 0         |        | 21.45  | 21.40  | 21.39   |
| 5                                       | 12      | 7         |        | 21.48  | 21.42  | 21.38   |
| 5                                       | 12      | 13        |        | 21.50  | 21.45  | 21.46   |
| 5                                       | 25      | 0         |        | 21.49  | 21.40  | 21.37   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 23.49  | 23.54  | 23.39   |
| 15                                      | 1       | 37        |        | 23.36  | 23.39  | 23.26   |
| 15                                      | 1       | 74        |        | 23.30  | 23.32  | 23.33   |
| 15                                      | 36      | 0         |        | 22.56  | 22.57  | 22.42   |
| 15                                      | 36      | 20        |        | 22.48  | 22.42  | 22.31   |
| 15                                      | 36      | 39        |        | 22.48  | 22.35  | 22.40   |
| 15                                      | 75      | 0         |        | 22.67  | 22.68  | 22.40   |
| 15                                      | 1       | 0         | 16-QAM | 22.68  | 22.85  | 22.77   |
| 15                                      | 1       | 37        |        | 22.89  | 22.78  | 22.62   |
| 15                                      | 1       | 74        |        | 22.68  | 22.78  | 22.70   |
| 15                                      | 36      | 0         |        | 21.67  | 21.54  | 21.50   |
| 15                                      | 36      | 20        |        | 21.68  | 21.57  | 21.39   |
| 15                                      | 36      | 39        |        | 21.58  | 21.49  | 21.48   |
| 15                                      | 75      | 0         |        | 21.77  | 21.70  | 21.46   |
| 10                                      | 1       | 0         | QPSK   | 23.37  | 23.40  | 23.37   |
| 10                                      | 1       | 25        |        | 23.45  | 23.37  | 23.21   |
| 10                                      | 1       | 49        |        | 23.52  | 23.35  | 23.34   |
| 10                                      | 25      | 0         |        | 22.58  | 22.46  | 22.32   |
| 10                                      | 25      | 12        |        | 22.63  | 22.42  | 22.27   |
| 10                                      | 25      | 25        |        | 22.65  | 22.42  | 22.35   |
| 10                                      | 50      | 0         |        | 22.68  | 22.46  | 22.39   |
| 10                                      | 1       | 0         | 16-QAM | 22.71  | 22.66  | 22.73   |
| 10                                      | 1       | 25        |        | 22.90  | 22.71  | 22.50   |
| 10                                      | 1       | 49        |        | 22.85  | 22.74  | 22.67   |
| 10                                      | 25      | 0         |        | 21.65  | 21.57  | 21.38   |
| 10                                      | 25      | 12        |        | 21.70  | 21.54  | 21.30   |
| 10                                      | 25      | 25        |        | 21.70  | 21.57  | 21.39   |
| 10                                      | 50      | 0         |        | 21.75  | 21.55  | 21.44   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 23.29  | 23.31  | 23.15   |
| 5                                       | 1       | 12        |        | 23.38  | 23.29  | 23.13   |
| 5                                       | 1       | 24        |        | 23.47  | 23.33  | 23.24   |
| 5                                       | 12      | 0         |        | 22.34  | 22.30  | 22.20   |
| 5                                       | 12      | 7         |        | 22.40  | 22.29  | 22.16   |
| 5                                       | 12      | 13        |        | 22.43  | 22.30  | 22.24   |
| 5                                       | 25      | 0         |        | 22.40  | 22.31  | 22.22   |
| 5                                       | 1       | 0         | 16-QAM | 22.66  | 22.65  | 22.44   |
| 5                                       | 1       | 12        |        | 22.73  | 22.62  | 22.44   |
| 5                                       | 1       | 24        |        | 22.81  | 22.68  | 22.59   |
| 5                                       | 12      | 0         |        | 21.40  | 21.39  | 21.29   |
| 5                                       | 12      | 7         |        | 21.46  | 21.41  | 21.21   |
| 5                                       | 12      | 13        |        | 21.51  | 21.41  | 21.28   |
| 5                                       | 25      | 0         |        | 21.45  | 21.41  | 21.28   |
| 3                                       | 1       | 0         | QPSK   | 23.27  | 23.27  | 23.09   |
| 3                                       | 1       | 8         |        | 23.36  | 23.30  | 23.20   |
| 3                                       | 1       | 14        |        | 23.34  | 23.28  | 23.17   |
| 3                                       | 8       | 0         |        | 22.24  | 22.32  | 22.12   |
| 3                                       | 8       | 4         |        | 22.31  | 22.30  | 22.17   |
| 3                                       | 8       | 7         |        | 22.38  | 22.31  | 22.18   |
| 3                                       | 15      | 0         |        | 22.30  | 22.29  | 22.15   |
| 3                                       | 1       | 0         | 16-QAM | 22.59  | 22.58  | 22.41   |
| 3                                       | 1       | 8         |        | 22.67  | 22.62  | 22.54   |
| 3                                       | 1       | 14        |        | 22.68  | 22.61  | 22.53   |
| 3                                       | 8       | 0         |        | 21.36  | 21.39  | 21.22   |
| 3                                       | 8       | 4         |        | 21.43  | 21.39  | 21.27   |
| 3                                       | 8       | 7         |        | 21.50  | 21.40  | 21.31   |
| 3                                       | 15      | 0         |        | 21.44  | 21.37  | 21.26   |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 23.24  | 23.27  | 23.24   |
| 1.4                                     | 1       | 3         |        | 23.22  | 23.25  | 23.22   |
| 1.4                                     | 1       | 5         |        | 23.29  | 23.26  | 23.25   |
| 1.4                                     | 3       | 0         |        | 23.21  | 23.26  | 23.18   |
| 1.4                                     | 3       | 1         |        | 23.21  | 23.28  | 23.17   |
| 1.4                                     | 3       | 3         |        | 23.22  | 23.31  | 23.19   |
| 1.4                                     | 6       | 0         |        | 22.26  | 22.33  | 22.21   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.62  | 22.63  | 22.58   |
| 1.4                                     | 1       | 3         |        | 22.58  | 22.64  | 22.54   |
| 1.4                                     | 1       | 5         |        | 22.66  | 22.65  | 22.57   |
| 1.4                                     | 3       | 0         |        | 22.37  | 22.43  | 22.30   |
| 1.4                                     | 3       | 1         |        | 22.37  | 22.42  | 22.30   |
| 1.4                                     | 3       | 3         |        | 22.38  | 22.43  | 22.31   |
| 1.4                                     | 6       | 0         |        | 21.33  | 21.42  | 21.33   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 22.95  | 23.15  | 23.11   |
| 20                                      | 1       | 49        |        | 22.88  | 23.03  | 23.08   |
| 20                                      | 1       | 99        |        | 22.94  | 23.13  | 23.04   |
| 20                                      | 50      | 0         |        | 21.95  | 21.97  | 21.92   |
| 20                                      | 50      | 24        |        | 21.90  | 21.93  | 21.87   |
| 20                                      | 50      | 50        |        | 21.94  | 21.95  | 21.85   |
| 20                                      | 100     | 0         |        | 21.94  | 21.94  | 21.97   |
| 20                                      | 1       | 0         | 16-QAM | 21.68  | 21.59  | 21.99   |
| 20                                      | 1       | 49        |        | 21.65  | 21.63  | 21.93   |
| 20                                      | 1       | 99        |        | 21.74  | 21.77  | 21.93   |
| 20                                      | 50      | 0         |        | 20.87  | 20.83  | 21.03   |
| 20                                      | 50      | 24        |        | 20.90  | 20.87  | 20.97   |
| 20                                      | 50      | 50        |        | 20.95  | 20.94  | 20.95   |
| 20                                      | 100     | 0         |        | 20.98  | 20.90  | 20.96   |
| 15                                      | 1       | 0         | QPSK   | 22.92  | 23.06  | 22.97   |
| 15                                      | 1       | 37        |        | 22.94  | 23.09  | 22.96   |
| 15                                      | 1       | 74        |        | 23.02  | 23.16  | 22.86   |
| 15                                      | 36      | 0         |        | 21.87  | 21.92  | 21.97   |
| 15                                      | 36      | 20        |        | 21.90  | 21.95  | 22.00   |
| 15                                      | 36      | 39        |        | 21.90  | 21.98  | 21.88   |
| 15                                      | 75      | 0         |        | 21.87  | 21.88  | 21.96   |
| 15                                      | 1       | 0         | 16-QAM | 21.91  | 21.81  | 21.70   |
| 15                                      | 1       | 37        |        | 21.98  | 21.90  | 21.71   |
| 15                                      | 1       | 74        |        | 21.96  | 21.96  | 21.61   |
| 15                                      | 36      | 0         |        | 20.85  | 21.01  | 21.00   |
| 15                                      | 36      | 20        |        | 20.90  | 21.07  | 21.02   |
| 15                                      | 36      | 39        |        | 20.93  | 21.06  | 20.96   |
| 15                                      | 75      | 0         |        | 20.84  | 20.95  | 20.99   |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.92  | 22.97  | 23.07   |
| 10                                      | 1       | 25        |        | 22.89  | 22.99  | 23.08   |
| 10                                      | 1       | 49        |        | 22.95  | 23.07  | 23.01   |
| 10                                      | 25      | 0         |        | 21.92  | 21.94  | 22.02   |
| 10                                      | 25      | 12        |        | 21.89  | 21.97  | 21.91   |
| 10                                      | 25      | 25        |        | 21.91  | 21.95  | 21.93   |
| 10                                      | 50      | 0         |        | 21.84  | 21.93  | 21.90   |
| 10                                      | 1       | 0         | 16-QAM | 21.57  | 21.93  | 22.10   |
| 10                                      | 1       | 25        |        | 21.61  | 21.97  | 22.05   |
| 10                                      | 1       | 49        |        | 21.70  | 22.05  | 21.97   |
| 10                                      | 25      | 0         |        | 20.97  | 21.07  | 21.02   |
| 10                                      | 25      | 12        |        | 20.93  | 21.09  | 20.95   |
| 10                                      | 25      | 25        |        | 20.96  | 21.08  | 20.97   |
| 10                                      | 50      | 0         |        | 20.84  | 20.96  | 20.89   |
| 5                                       | 1       | 0         | QPSK   | 22.83  | 22.95  | 22.75   |
| 5                                       | 1       | 12        |        | 22.81  | 22.91  | 22.71   |
| 5                                       | 1       | 24        |        | 22.80  | 22.98  | 22.67   |
| 5                                       | 12      | 0         |        | 21.81  | 21.97  | 21.83   |
| 5                                       | 12      | 7         |        | 21.79  | 21.98  | 21.83   |
| 5                                       | 12      | 13        |        | 21.83  | 21.97  | 21.84   |
| 5                                       | 25      | 0         |        | 21.82  | 21.89  | 21.83   |
| 5                                       | 1       | 0         | 16-QAM | 21.96  | 22.00  | 21.98   |
| 5                                       | 1       | 12        |        | 21.91  | 22.01  | 21.97   |
| 5                                       | 1       | 24        |        | 21.95  | 22.06  | 21.93   |
| 5                                       | 12      | 0         |        | 20.85  | 20.95  | 20.88   |
| 5                                       | 12      | 7         |        | 20.86  | 20.96  | 20.87   |
| 5                                       | 12      | 13        |        | 20.84  | 20.99  | 20.88   |
| 5                                       | 25      | 0         |        | 20.78  | 20.92  | 20.88   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 23.38  | 23.32  | 23.88   |
| 20                                      | 1       | 49        |        | 23.34  | 23.31  | 23.46   |
| 20                                      | 1       | 99        |        | 23.26  | 23.26  | 23.69   |
| 20                                      | 50      | 0         |        | 22.39  | 22.40  | 22.76   |
| 20                                      | 50      | 24        |        | 22.38  | 22.39  | 22.53   |
| 20                                      | 50      | 50        |        | 22.34  | 22.37  | 22.55   |
| 20                                      | 100     | 0         |        | 22.50  | 22.68  | 22.81   |
| 20                                      | 1       | 0         | 16-QAM | 22.42  | 22.56  | 22.95   |
| 20                                      | 1       | 49        |        | 22.64  | 22.60  | 22.73   |
| 20                                      | 1       | 99        |        | 22.56  | 22.93  | 22.89   |
| 20                                      | 50      | 0         |        | 21.28  | 21.16  | 21.71   |
| 20                                      | 50      | 24        |        | 21.30  | 21.35  | 21.49   |
| 20                                      | 50      | 50        |        | 21.26  | 21.75  | 21.52   |
| 20                                      | 100     | 0         |        | 21.46  | 21.71  | 21.86   |
| 15                                      | 1       | 0         | QPSK   | 23.15  | 23.18  | 23.76   |
| 15                                      | 1       | 37        |        | 23.35  | 23.42  | 23.42   |
| 15                                      | 1       | 74        |        | 23.29  | 23.78  | 23.69   |
| 15                                      | 36      | 0         |        | 22.27  | 22.12  | 22.52   |
| 15                                      | 36      | 20        |        | 22.37  | 22.44  | 22.48   |
| 15                                      | 36      | 39        |        | 22.34  | 22.72  | 22.57   |
| 15                                      | 75      | 0         |        | 22.45  | 22.53  | 22.70   |
| 15                                      | 1       | 0         | 16-QAM | 22.45  | 22.49  | 22.87   |
| 15                                      | 1       | 37        |        | 22.67  | 22.68  | 22.69   |
| 15                                      | 1       | 74        |        | 22.64  | 22.87  | 22.90   |
| 15                                      | 36      | 0         |        | 21.21  | 21.09  | 21.40   |
| 15                                      | 36      | 20        |        | 21.29  | 21.37  | 21.41   |
| 15                                      | 36      | 39        |        | 21.27  | 21.63  | 21.51   |
| 15                                      | 75      | 0         |        | 21.41  | 21.53  | 21.66   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 23.15  | 23.17  | 23.47   |
| 10                                      | 1       | 25        |        | 23.24  | 23.34  | 23.44   |
| 10                                      | 1       | 49        |        | 23.31  | 23.70  | 23.69   |
| 10                                      | 25      | 0         |        | 22.16  | 22.10  | 22.37   |
| 10                                      | 25      | 12        |        | 22.19  | 22.26  | 22.37   |
| 10                                      | 25      | 25        |        | 22.26  | 22.47  | 22.49   |
| 10                                      | 50      | 0         |        | 22.32  | 22.45  | 22.56   |
| 10                                      | 1       | 0         | 16-QAM | 22.47  | 22.49  | 22.77   |
| 10                                      | 1       | 25        |        | 22.57  | 22.70  | 22.66   |
| 10                                      | 1       | 49        |        | 22.61  | 23.00  | 22.94   |
| 10                                      | 25      | 0         |        | 21.05  | 21.01  | 21.31   |
| 10                                      | 25      | 12        |        | 21.11  | 21.17  | 21.32   |
| 10                                      | 25      | 25        |        | 21.17  | 21.36  | 21.43   |
| 10                                      | 50      | 0         |        | 21.27  | 21.38  | 21.51   |
| 5                                       | 1       | 0         | QPSK   | 22.84  | 22.97  | 23.19   |
| 5                                       | 1       | 12        |        | 22.84  | 23.10  | 23.31   |
| 5                                       | 1       | 24        |        | 22.91  | 23.29  | 23.42   |
| 5                                       | 12      | 0         |        | 21.65  | 21.88  | 22.13   |
| 5                                       | 12      | 7         |        | 21.73  | 21.96  | 22.15   |
| 5                                       | 12      | 13        |        | 21.74  | 22.04  | 22.26   |
| 5                                       | 25      | 0         |        | 21.83  | 22.08  | 22.29   |
| 5                                       | 1       | 0         | 16-QAM | 22.12  | 22.20  | 22.48   |
| 5                                       | 1       | 12        |        | 22.13  | 22.32  | 22.64   |
| 5                                       | 1       | 24        |        | 22.20  | 22.52  | 22.78   |
| 5                                       | 12      | 0         |        | 20.56  | 20.74  | 20.98   |
| 5                                       | 12      | 7         |        | 20.62  | 20.83  | 21.01   |
| 5                                       | 12      | 13        |        | 20.63  | 20.89  | 21.12   |
| 5                                       | 25      | 0         |        | 20.74  | 20.97  | 21.18   |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.81  | 22.95  | 23.28   |
| 3                                       | 1       | 8         |        | 22.81  | 23.10  | 23.40   |
| 3                                       | 1       | 14        |        | 22.87  | 23.12  | 23.41   |
| 3                                       | 8       | 0         |        | 21.65  | 21.85  | 22.12   |
| 3                                       | 8       | 4         |        | 21.64  | 21.91  | 22.18   |
| 3                                       | 8       | 7         |        | 21.72  | 21.91  | 22.21   |
| 3                                       | 15      | 0         |        | 21.77  | 22.04  | 22.29   |
| 3                                       | 1       | 0         | 16-QAM | 22.06  | 22.17  | 22.53   |
| 3                                       | 1       | 8         |        | 22.04  | 22.34  | 22.68   |
| 3                                       | 1       | 14        |        | 22.11  | 22.34  | 22.68   |
| 3                                       | 8       | 0         |        | 20.57  | 20.86  | 21.03   |
| 3                                       | 8       | 4         |        | 20.58  | 20.91  | 21.11   |
| 3                                       | 8       | 7         |        | 20.67  | 20.90  | 21.13   |
| 3                                       | 15      | 0         |        | 20.67  | 20.91  | 21.19   |
| 1.4                                     | 1       | 0         | QPSK   | 22.81  | 23.03  | 23.41   |
| 1.4                                     | 1       | 3         |        | 22.79  | 23.07  | 23.41   |
| 1.4                                     | 1       | 5         |        | 22.77  | 23.08  | 23.40   |
| 1.4                                     | 3       | 0         |        | 22.66  | 22.97  | 23.29   |
| 1.4                                     | 3       | 1         |        | 22.68  | 22.96  | 23.29   |
| 1.4                                     | 3       | 3         |        | 22.69  | 23.02  | 23.32   |
| 1.4                                     | 6       | 0         |        | 21.63  | 21.99  | 22.27   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.12  | 22.39  | 22.75   |
| 1.4                                     | 1       | 3         |        | 22.07  | 22.42  | 22.71   |
| 1.4                                     | 1       | 5         |        | 22.11  | 22.44  | 22.75   |
| 1.4                                     | 3       | 0         |        | 21.72  | 21.94  | 22.34   |
| 1.4                                     | 3       | 1         |        | 21.68  | 21.96  | 22.33   |
| 1.4                                     | 3       | 3         |        | 21.69  | 22.03  | 22.39   |
| 1.4                                     | 6       | 0         |        | 20.64  | 20.97  | 21.27   |



## Appendix B. Test Results of ERP/EIRP and Radiated Test

### ERP/EIRP

| LTE Band 2 / 1.4MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 0      | 23.35       | 0.2163        | 24.88     | 0.3076  |
| Middle                                            |           | 1    | 0      | 23.28       | 0.2128        | 24.81     | 0.3027  |
| Highest                                           |           | 1    | 0      | 22.73       | 0.1875        | 24.26     | 0.2667  |
| Lowest                                            | 16QAM     | 1    | 5      | 22.64       | 0.1837        | 24.17     | 0.2612  |
| Middle                                            |           | 1    | 5      | 22.47       | 0.1766        | 24.00     | 0.2512  |
| Highest                                           |           | 1    | 5      | 21.89       | 0.1545        | 23.42     | 0.2198  |
| Limit                                             | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 3MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 0      | 23.30       | 0.2138        | 24.83     | 0.3041  |
| Middle                                          |           | 1    | 0      | 23.18       | 0.2080        | 24.71     | 0.2958  |
| Highest                                         |           | 1    | 0      | 22.66       | 0.1845        | 24.19     | 0.2624  |
| Lowest                                          | 16QAM     | 1    | 8      | 22.58       | 0.1811        | 24.11     | 0.2576  |
| Middle                                          |           | 1    | 8      | 22.48       | 0.1770        | 24.01     | 0.2518  |
| Highest                                         |           | 1    | 8      | 21.89       | 0.1545        | 23.42     | 0.2198  |
| Limit                                           | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 5MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 0      | 23.71       | 0.2350        | 25.24     | 0.3342  |
| Middle                                          |           | 1    | 0      | 23.64       | 0.2312        | 25.17     | 0.3289  |
| Highest                                         |           | 1    | 0      | 22.99       | 0.1991        | 24.52     | 0.2831  |
| Lowest                                          | 16QAM     | 1    | 0      | 22.98       | 0.1986        | 24.51     | 0.2825  |
| Middle                                          |           | 1    | 0      | 22.89       | 0.1945        | 24.42     | 0.2767  |
| Highest                                         |           | 1    | 0      | 22.24       | 0.1675        | 23.77     | 0.2382  |
| Limit                                           | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 2 / 10MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 23.75       | 0.2371        | 25.28     | 0.3373  |
| Middle                                           |           | 1    | 0      | 23.68       | 0.2333        | 25.21     | 0.3319  |
| Highest                                          |           | 1    | 0      | 22.94       | 0.1968        | 24.47     | 0.2799  |
| Lowest                                           | 16QAM     | 1    | 0      | 22.84       | 0.1923        | 24.37     | 0.2735  |
| Middle                                           |           | 1    | 0      | 22.88       | 0.1941        | 24.41     | 0.2761  |
| Highest                                          |           | 1    | 0      | 22.16       | 0.1644        | 23.69     | 0.2339  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 15MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 23.75       | 0.2371        | 25.28     | 0.3373  |
| Middle                                           |           | 1    | 0      | 23.57       | 0.2275        | 25.10     | 0.3236  |
| Highest                                          |           | 1    | 0      | 23.12       | 0.2051        | 24.65     | 0.2917  |
| Lowest                                           | 16QAM     | 1    | 0      | 22.85       | 0.1928        | 24.38     | 0.2742  |
| Middle                                           |           | 1    | 0      | 22.77       | 0.1892        | 24.30     | 0.2692  |
| Highest                                          |           | 1    | 0      | 22.29       | 0.1694        | 23.82     | 0.2410  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 2 / 20MHz (Average) (GT - LC = 1.53 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 23.90       | 0.2455        | 25.43     | 0.3491  |
| Middle                                           |           | 1    | 0      | 23.59       | 0.2286        | 25.12     | 0.3251  |
| Highest                                          |           | 1    | 0      | 23.36       | 0.2168        | 24.89     | 0.3083  |
| Lowest                                           | 16QAM     | 1    | 49     | 22.82       | 0.1914        | 24.35     | 0.2723  |
| Middle                                           |           | 1    | 49     | 22.96       | 0.1977        | 24.49     | 0.2812  |
| Highest                                          |           | 1    | 49     | 22.23       | 0.1671        | 23.76     | 0.2377  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 4 / 1.4MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 5      | 22.68       | 0.1854        | 23.23     | 0.2104  |
| Middle                                            |           | 1    | 5      | 22.74       | 0.1879        | 23.29     | 0.2133  |
| Highest                                           |           | 1    | 5      | 23.37       | 0.2173        | 23.92     | 0.2466  |
| Lowest                                            | 16QAM     | 1    | 5      | 21.90       | 0.1549        | 22.45     | 0.1758  |
| Middle                                            |           | 1    | 5      | 22.02       | 0.1592        | 22.57     | 0.1807  |
| Highest                                           |           | 1    | 5      | 22.57       | 0.1807        | 23.12     | 0.2051  |
| Limit                                             | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 4 / 3MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 8      | 22.67       | 0.1849        | 23.22     | 0.2099  |
| Middle                                          |           | 1    | 8      | 22.76       | 0.1888        | 23.31     | 0.2143  |
| Highest                                         |           | 1    | 8      | 23.31       | 0.2143        | 23.86     | 0.2432  |
| Lowest                                          | 16QAM     | 1    | 8      | 21.87       | 0.1538        | 22.42     | 0.1746  |
| Middle                                          |           | 1    | 8      | 21.98       | 0.1578        | 22.53     | 0.1791  |
| Highest                                         |           | 1    | 8      | 22.52       | 0.1786        | 23.07     | 0.2028  |
| Limit                                           | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 4 / 5MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 0      | 22.97       | 0.1982        | 23.52     | 0.2249  |
| Middle                                          |           | 1    | 0      | 23.17       | 0.2075        | 23.72     | 0.2355  |
| Highest                                         |           | 1    | 0      | 23.63       | 0.2307        | 24.18     | 0.2618  |
| Lowest                                          | 16QAM     | 1    | 24     | 22.35       | 0.1718        | 22.90     | 0.1950  |
| Middle                                          |           | 1    | 24     | 22.20       | 0.1660        | 22.75     | 0.1884  |
| Highest                                         |           | 1    | 24     | 22.92       | 0.1959        | 23.47     | 0.2223  |
| Limit                                           | EIRP < 1W |      |        | Result      |               | PASS      |         |



| LTE Band 4 / 10MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 49     | 23.24       | 0.2109        | 23.79     | 0.2393  |
| Middle                                           |           | 1    | 49     | 22.98       | 0.1986        | 23.53     | 0.2254  |
| Highest                                          |           | 1    | 49     | 23.63       | 0.2307        | 24.18     | 0.2618  |
| Lowest                                           | 16QAM     | 1    | 49     | 22.53       | 0.1791        | 23.08     | 0.2032  |
| Middle                                           |           | 1    | 49     | 22.21       | 0.1663        | 22.76     | 0.1888  |
| Highest                                          |           | 1    | 49     | 22.88       | 0.1941        | 23.43     | 0.2203  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 4 / 15MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 74     | 23.14       | 0.2061        | 23.69     | 0.2339  |
| Middle                                           |           | 1    | 74     | 22.86       | 0.1932        | 23.41     | 0.2193  |
| Highest                                          |           | 1    | 74     | 23.60       | 0.2291        | 24.15     | 0.2600  |
| Lowest                                           | 16QAM     | 1    | 74     | 22.41       | 0.1742        | 22.96     | 0.1977  |
| Middle                                           |           | 1    | 74     | 22.05       | 0.1603        | 22.60     | 0.1820  |
| Highest                                          |           | 1    | 74     | 22.80       | 0.1905        | 23.35     | 0.2163  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 4 / 20MHz (Average) (GT - LC = 0.55 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 23.12       | 0.2051        | 23.67     | 0.2328  |
| Middle                                           |           | 1    | 0      | 23.65       | 0.2317        | 24.20     | 0.2630  |
| Highest                                          |           | 1    | 0      | 23.15       | 0.2065        | 23.70     | 0.2344  |
| Lowest                                           | 16QAM     | 1    | 99     | 22.36       | 0.1722        | 22.91     | 0.1954  |
| Middle                                           |           | 1    | 99     | 22.24       | 0.1675        | 22.79     | 0.1901  |
| Highest                                          |           | 1    | 99     | 22.84       | 0.1923        | 23.39     | 0.2183  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |



| LTE Band 5 / 1.4MHz (Average) (GT - LC = -1.42 dB) |          |      |        |             |               |          |        |
|----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                            | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                    |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                             | QPSK     | 1    | 5      | 23.87       | 0.2438        | 20.30    | 0.1072 |
| Middle                                             |          | 1    | 5      | 23.76       | 0.2377        | 20.19    | 0.1045 |
| Highest                                            |          | 1    | 5      | 23.70       | 0.2344        | 20.13    | 0.1030 |
| Lowest                                             | 16QAM    | 1    | 0      | 23.28       | 0.2128        | 19.71    | 0.0935 |
| Middle                                             |          | 1    | 0      | 23.08       | 0.2032        | 19.51    | 0.0893 |
| Highest                                            |          | 1    | 0      | 23.10       | 0.2042        | 19.53    | 0.0897 |
| Limit                                              | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 5 / 3MHz (Average) (GT - LC = -1.42 dB) |          |      |        |             |               |          |        |
|--------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                          | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                  |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                           | QPSK     | 1    | 0      | 23.79       | 0.2393        | 20.22    | 0.1052 |
| Middle                                           |          | 1    | 0      | 23.75       | 0.2371        | 20.18    | 0.1042 |
| Highest                                          |          | 1    | 0      | 23.59       | 0.2286        | 20.02    | 0.1005 |
| Lowest                                           | 16QAM    | 1    | 0      | 23.17       | 0.2075        | 19.60    | 0.0912 |
| Middle                                           |          | 1    | 0      | 23.06       | 0.2023        | 19.49    | 0.0889 |
| Highest                                          |          | 1    | 0      | 22.89       | 0.1945        | 19.32    | 0.0855 |
| Limit                                            | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 5 / 5MHz (Average) (GT - LC = -1.42 dB) |          |      |        |             |               |          |        |
|--------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                          | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                  |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                           | QPSK     | 1    | 0      | 23.88       | 0.2443        | 20.31    | 0.1074 |
| Middle                                           |          | 1    | 0      | 23.82       | 0.2410        | 20.25    | 0.1059 |
| Highest                                          |          | 1    | 0      | 23.60       | 0.2291        | 20.03    | 0.1007 |
| Lowest                                           | 16QAM    | 1    | 0      | 23.25       | 0.2113        | 19.68    | 0.0929 |
| Middle                                           |          | 1    | 0      | 23.19       | 0.2084        | 19.62    | 0.0916 |
| Highest                                          |          | 1    | 0      | 22.90       | 0.1950        | 19.33    | 0.0857 |
| Limit                                            | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 5 / 10MHz (Average) (GT - LC = -1.42 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 0      | 23.90       | 0.2455        | 20.33    | 0.1079 |
| Middle                                            |          | 1    | 0      | 23.92       | 0.2466        | 20.35    | 0.1084 |
| Highest                                           |          | 1    | 0      | 23.83       | 0.2415        | 20.26    | 0.1062 |
| Lowest                                            | 16QAM    | 1    | 0      | 23.28       | 0.2128        | 19.71    | 0.0935 |
| Middle                                            |          | 1    | 0      | 23.28       | 0.2128        | 19.71    | 0.0935 |
| Highest                                           |          | 1    | 0      | 23.20       | 0.2089        | 19.63    | 0.0918 |
| Limit                                             | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 7 / 5MHz (Average) (GT - LC = 1.87 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 0      | 22.52       | 0.1786        | 24.39     | 0.2748  |
| Middle                                          |           | 1    | 0      | 22.59       | 0.1816        | 24.46     | 0.2793  |
| Highest                                         |           | 1    | 0      | 22.64       | 0.1837        | 24.51     | 0.2825  |
| Lowest                                          | 16QAM     | 1    | 0      | 21.76       | 0.1500        | 23.63     | 0.2307  |
| Middle                                          |           | 1    | 0      | 21.82       | 0.1521        | 23.69     | 0.2339  |
| Highest                                         |           | 1    | 0      | 21.92       | 0.1556        | 23.79     | 0.2393  |
| Limit                                           | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 7 / 10MHz (Average) (GT - LC = 1.87 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 25     | 22.57       | 0.1807        | 24.44     | 0.2780  |
| Middle                                           |           | 1    | 25     | 22.62       | 0.1828        | 24.49     | 0.2812  |
| Highest                                          |           | 1    | 25     | 22.66       | 0.1845        | 24.53     | 0.2838  |
| Lowest                                           | 16QAM     | 1    | 49     | 21.83       | 0.1524        | 23.70     | 0.2344  |
| Middle                                           |           | 1    | 49     | 21.89       | 0.1545        | 23.76     | 0.2377  |
| Highest                                          |           | 1    | 49     | 21.85       | 0.1531        | 23.72     | 0.2355  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 7 / 15MHz (Average) (GT - LC = 1.87 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 37     | 22.65       | 0.1841        | 24.52     | 0.2831  |
| Middle                                           |           | 1    | 37     | 22.63       | 0.1832        | 24.50     | 0.2818  |
| Highest                                          |           | 1    | 37     | 22.67       | 0.1849        | 24.54     | 0.2844  |
| Lowest                                           | 16QAM     | 1    | 74     | 21.89       | 0.1545        | 23.76     | 0.2377  |
| Middle                                           |           | 1    | 74     | 21.81       | 0.1517        | 23.68     | 0.2333  |
| Highest                                          |           | 1    | 74     | 21.82       | 0.1521        | 23.69     | 0.2339  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 7 / 20MHz (Average) (GT - LC = 1.87 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 22.53       | 0.1791        | 24.40     | 0.2754  |
| Middle                                           |           | 1    | 0      | 22.72       | 0.1871        | 24.59     | 0.2877  |
| Highest                                          |           | 1    | 0      | 22.58       | 0.1811        | 24.45     | 0.2786  |
| Lowest                                           | 16QAM     | 1    | 99     | 21.93       | 0.1560        | 23.80     | 0.2399  |
| Middle                                           |           | 1    | 99     | 21.86       | 0.1535        | 23.73     | 0.2360  |
| Highest                                          |           | 1    | 99     | 21.95       | 0.1567        | 23.82     | 0.2410  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 12 / 1.4MHz (Average) (GT - LC = -0.71 dB) |          |      |        |             |               |          |        |
|-----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                             | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                     |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                              | QPSK     | 1    | 5      | 23.18       | 0.2080        | 20.32    | 0.1076 |
| Middle                                              |          | 1    | 5      | 23.34       | 0.2158        | 20.48    | 0.1117 |
| Highest                                             |          | 1    | 5      | 23.40       | 0.2188        | 20.54    | 0.1132 |
| Lowest                                              | 16QAM    | 1    | 5      | 22.49       | 0.1774        | 19.63    | 0.0918 |
| Middle                                              |          | 1    | 5      | 22.72       | 0.1871        | 19.86    | 0.0968 |
| Highest                                             |          | 1    | 5      | 22.73       | 0.1875        | 19.87    | 0.0971 |
| Limit                                               | ERP < 3W |      |        | Result      |               | PASS     |        |

| LTE Band 12 / 3MHz (Average) (GT - LC = -0.71 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 14     | 23.28       | 0.2128        | 20.42    | 0.1102 |
| Middle                                            |          | 1    | 14     | 23.22       | 0.2099        | 20.36    | 0.1086 |
| Highest                                           |          | 1    | 14     | 23.35       | 0.2163        | 20.49    | 0.1119 |
| Lowest                                            | 16QAM    | 1    | 8      | 22.60       | 0.1820        | 19.74    | 0.0942 |
| Middle                                            |          | 1    | 8      | 22.71       | 0.1866        | 19.85    | 0.0966 |
| Highest                                           |          | 1    | 8      | 22.71       | 0.1866        | 19.85    | 0.0966 |
| Limit                                             | ERP < 3W |      |        | Result      |               | PASS     |        |

| LTE Band 12 / 5MHz (Average) (GT - LC = -0.71 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 24     | 23.39       | 0.2183        | 20.53    | 0.1130 |
| Middle                                            |          | 1    | 24     | 23.33       | 0.2153        | 20.47    | 0.1114 |
| Highest                                           |          | 1    | 24     | 23.41       | 0.2193        | 20.55    | 0.1135 |
| Lowest                                            | 16QAM    | 1    | 24     | 22.87       | 0.1936        | 20.01    | 0.1002 |
| Middle                                            |          | 1    | 24     | 22.68       | 0.1854        | 19.82    | 0.0959 |
| Highest                                           |          | 1    | 24     | 22.86       | 0.1932        | 20.00    | 0.1000 |
| Limit                                             | ERP < 3W |      |        | Result      |               | PASS     |        |



| LTE Band 12 / 10MHz (Average) (GT - LC = -0.71 dB) |          |      |        |             |               |          |        |
|----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                            | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                    |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                             | QPSK     | 1    | 0      | 23.18       | 0.2080        | 20.32    | 0.1076 |
| Middle                                             |          | 1    | 0      | 23.47       | 0.2223        | 20.61    | 0.1151 |
| Highest                                            |          | 1    | 0      | 23.40       | 0.2188        | 20.54    | 0.1132 |
| Lowest                                             | 16QAM    | 1    | 49     | 22.75       | 0.1884        | 19.89    | 0.0975 |
| Middle                                             |          | 1    | 49     | 22.76       | 0.1888        | 19.90    | 0.0977 |
| Highest                                            |          | 1    | 49     | 22.91       | 0.1954        | 20.05    | 0.1012 |
| Limit                                              | ERP < 3W |      |        | Result      |               | PASS     |        |



| LTE Band 13 / 5MHz (Average) (GT - LC = -1.1 dB) |          |      |        |             |               |          |        |
|--------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                          | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                  |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                           | QPSK     | 1    | 0      | 23.34       | 0.2158        | 20.09    | 0.1021 |
| Middle                                           |          | 1    | 0      | 23.52       | 0.2249        | 20.27    | 0.1064 |
| Highest                                          |          | 1    | 0      | 23.41       | 0.2193        | 20.16    | 0.1038 |
| Lowest                                           | 16QAM    | 1    | 0      | 22.67       | 0.1849        | 19.42    | 0.0875 |
| Middle                                           |          | 1    | 0      | 22.95       | 0.1972        | 19.70    | 0.0933 |
| Highest                                          |          | 1    | 0      | 22.85       | 0.1928        | 19.60    | 0.0912 |
| Limit                                            | ERP < 3W |      |        | Result      |               | PASS     |        |

| LTE Band 13 / 10MHz (Average) (GT - LC = -1.1 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | -    | -      | -           | -             | -        | -      |
| Middle                                            |          | 1    | 0      | 23.53       | 0.2254        | 20.28    | 0.1067 |
| Highest                                           |          | -    | -      | -           | -             | -        | -      |
| Lowest                                            | 16QAM    | -    | -      | -           | -             | -        | -      |
| Middle                                            |          | 1    | 25     | 22.90       | 0.1950        | 19.65    | 0.0923 |
| Highest                                           |          | -    | -      | -           | -             | -        | -      |
| Limit                                             | ERP < 3W |      |        | Result      |               | PASS     |        |



| LTE Band 17 / 5MHz (Average) (GT - LC = -0.9 dB) |          |      |        |             |               |          |        |
|--------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                          | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                  |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                           | QPSK     | 1    | 0      | 23.45       | 0.2213        | 20.40    | 0.1096 |
| Middle                                           |          | 1    | 0      | 23.36       | 0.2168        | 20.31    | 0.1074 |
| Highest                                          |          | 1    | 0      | 23.31       | 0.2143        | 20.26    | 0.1062 |
| Lowest                                           | 16QAM    | 1    | 24     | 22.72       | 0.1871        | 19.67    | 0.0927 |
| Middle                                           |          | 1    | 24     | 22.75       | 0.1884        | 19.70    | 0.0933 |
| Highest                                          |          | 1    | 24     | 22.83       | 0.1919        | 19.78    | 0.0951 |
| Limit                                            | ERP < 3W |      |        | Result      |               | PASS     |        |

| LTE Band 17 / 10MHz (Average) (GT - LC = -0.9 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 0      | 23.41       | 0.2193        | 20.36    | 0.1086 |
| Middle                                            |          | 1    | 0      | 23.48       | 0.2228        | 20.43    | 0.1104 |
| Highest                                           |          | 1    | 0      | 23.41       | 0.2193        | 20.36    | 0.1086 |
| Lowest                                            | 16QAM    | 1    | 49     | 22.87       | 0.1936        | 19.82    | 0.0959 |
| Middle                                            |          | 1    | 49     | 22.95       | 0.1972        | 19.90    | 0.0977 |
| Highest                                           |          | 1    | 49     | 22.89       | 0.1945        | 19.84    | 0.0964 |
| Limit                                             | ERP < 3W |      |        | Result      |               | PASS     |        |



| LTE Band 41 / 5MHz (Average) (GT - LC = 1.51 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 24     | 22.80       | 0.1905        | 24.31     | 0.2698  |
| Middle                                           |           | 1    | 24     | 22.98       | 0.1986        | 24.49     | 0.2812  |
| Highest                                          |           | 1    | 24     | 22.67       | 0.1849        | 24.18     | 0.2618  |
| Lowest                                           | 16QAM     | 1    | 24     | 21.95       | 0.1567        | 23.46     | 0.2218  |
| Middle                                           |           | 1    | 24     | 22.06       | 0.1607        | 23.57     | 0.2275  |
| Highest                                          |           | 1    | 24     | 21.93       | 0.1560        | 23.44     | 0.2208  |
| Limit                                            | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 41 / 10MHz (Average) (GT - LC = 1.51 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 25     | 22.89       | 0.1945        | 24.40     | 0.2754  |
| Middle                                            |           | 1    | 25     | 22.99       | 0.1991        | 24.50     | 0.2818  |
| Highest                                           |           | 1    | 25     | 23.08       | 0.2032        | 24.59     | 0.2877  |
| Lowest                                            | 16QAM     | 1    | 0      | 21.57       | 0.1435        | 23.08     | 0.2032  |
| Middle                                            |           | 1    | 0      | 21.93       | 0.1560        | 23.44     | 0.2208  |
| Highest                                           |           | 1    | 0      | 22.10       | 0.1622        | 23.61     | 0.2296  |
| Limit                                             | EIRP < 2W |      |        | Result      |               | PASS      |         |

| LTE Band 41 / 15MHz (Average) (GT - LC = 1.51 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 74     | 23.02       | 0.2004        | 24.53     | 0.2838  |
| Middle                                            |           | 1    | 74     | 23.16       | 0.2070        | 24.67     | 0.2931  |
| Highest                                           |           | 1    | 74     | 22.86       | 0.1932        | 24.37     | 0.2735  |
| Lowest                                            | 16QAM     | 1    | 37     | 21.98       | 0.1578        | 23.49     | 0.2234  |
| Middle                                            |           | 1    | 37     | 21.90       | 0.1549        | 23.41     | 0.2193  |
| Highest                                           |           | 1    | 37     | 21.71       | 0.1483        | 23.22     | 0.2099  |
| Limit                                             | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 41 / 20MHz (Average) (GT - LC = 1.51 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 0      | 22.95       | 0.1972        | 24.46     | 0.2793  |
| Middle                                            |           | 1    | 0      | 23.15       | 0.2065        | 24.66     | 0.2924  |
| Highest                                           |           | 1    | 0      | 23.11       | 0.2046        | 24.62     | 0.2897  |
| Lowest                                            | 16QAM     | 1    | 0      | 21.68       | 0.1472        | 23.19     | 0.2084  |
| Middle                                            |           | 1    | 0      | 21.59       | 0.1442        | 23.10     | 0.2042  |
| Highest                                           |           | 1    | 0      | 21.99       | 0.1581        | 23.50     | 0.2239  |
| Limit                                             | EIRP < 2W |      |        | Result      |               | PASS      |         |



| LTE Band 26 / 1.4MHz (Average) (GT - LC = -1.67 dB) |          |      |        |             |               |          |        |
|-----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                             | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                     |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                              | QPSK     | 3    | 3      | 23.22       | 0.2099        | 19.40    | 0.0871 |
| Middle                                              |          | 3    | 3      | 23.31       | 0.2143        | 19.49    | 0.0889 |
| Highest                                             |          | 3    | 3      | 23.19       | 0.2084        | 19.37    | 0.0865 |
| Lowest                                              | 16QAM    | 1    | 5      | 22.66       | 0.1845        | 18.84    | 0.0766 |
| Middle                                              |          | 1    | 5      | 22.65       | 0.1841        | 18.83    | 0.0764 |
| Highest                                             |          | 1    | 5      | 22.57       | 0.1807        | 18.75    | 0.0750 |
| Limit                                               | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 26 / 3MHz (Average) (GT - LC = -1.67 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 8      | 23.36       | 0.2168        | 19.54    | 0.0899 |
| Middle                                            |          | 1    | 8      | 23.30       | 0.2138        | 19.48    | 0.0887 |
| Highest                                           |          | 1    | 8      | 23.20       | 0.2089        | 19.38    | 0.0867 |
| Lowest                                            | 16QAM    | 1    | 14     | 22.68       | 0.1854        | 18.86    | 0.0769 |
| Middle                                            |          | 1    | 14     | 22.61       | 0.1824        | 18.79    | 0.0757 |
| Highest                                           |          | 1    | 14     | 22.53       | 0.1791        | 18.71    | 0.0743 |
| Limit                                             | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 26 / 5MHz (Average) (GT - LC = -1.67 dB) |          |      |        |             |               |          |        |
|---------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                           | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                   |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                            | QPSK     | 1    | 24     | 23.47       | 0.2223        | 19.65    | 0.0923 |
| Middle                                            |          | 1    | 24     | 23.33       | 0.2153        | 19.51    | 0.0893 |
| Highest                                           |          | 1    | 24     | 23.24       | 0.2109        | 19.42    | 0.0875 |
| Lowest                                            | 16QAM    | 1    | 24     | 22.81       | 0.1910        | 18.99    | 0.0793 |
| Middle                                            |          | 1    | 24     | 22.68       | 0.1854        | 18.86    | 0.0769 |
| Highest                                           |          | 1    | 24     | 22.59       | 0.1816        | 18.77    | 0.0753 |
| Limit                                             | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 26 / 10MHz (Average) (GT - LC = -1.67 dB) |          |      |        |             |               |          |        |
|----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                            | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                    |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                             | QPSK     | 1    | 49     | 23.52       | 0.2249        | 19.70    | 0.0933 |
| Middle                                             |          | 1    | 49     | 23.35       | 0.2163        | 19.53    | 0.0897 |
| Highest                                            |          | 1    | 49     | 23.34       | 0.2158        | 19.52    | 0.0895 |
| Lowest                                             | 16QAM    | 1    | 25     | 22.90       | 0.1950        | 19.08    | 0.0809 |
| Middle                                             |          | 1    | 25     | 22.71       | 0.1866        | 18.89    | 0.0774 |
| Highest                                            |          | 1    | 25     | 22.50       | 0.1778        | 18.68    | 0.0738 |
| Limit                                              | ERP < 7W |      |        | Result      |               | PASS     |        |

| LTE Band 26 / 15MHz (Average) (GT - LC = -1.67 dB) |          |      |        |             |               |          |        |
|----------------------------------------------------|----------|------|--------|-------------|---------------|----------|--------|
| Channel                                            | Mode     | RB   |        | Conducted   |               | ERP      |        |
|                                                    |          | Size | Offset | Power (dBm) | Power (Watts) | ERP(dBm) | ERP(W) |
| Lowest                                             | QPSK     | 1    | 0      | 23.49       | 0.2234        | 19.67    | 0.0927 |
| Middle                                             |          | 1    | 0      | 23.54       | 0.2259        | 19.72    | 0.0938 |
| Highest                                            |          | 1    | 0      | 23.39       | 0.2183        | 19.57    | 0.0906 |
| Lowest                                             | 16QAM    | 1    | 37     | 22.89       | 0.1945        | 19.07    | 0.0807 |
| Middle                                             |          | 1    | 37     | 22.78       | 0.1897        | 18.96    | 0.0787 |
| Highest                                            |          | 1    | 37     | 22.62       | 0.1828        | 18.80    | 0.0759 |
| Limit                                              | ERP < 7W |      |        | Result      |               | PASS     |        |



| LTE Band 66 / 1.4MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|---------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                           | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                   |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                            | QPSK      | 1    | 0      | 22.81       | 0.1910        | 23.91     | 0.2460  |
| Middle                                            |           | 1    | 0      | 23.03       | 0.2009        | 24.13     | 0.2588  |
| Highest                                           |           | 1    | 0      | 23.41       | 0.2193        | 24.51     | 0.2825  |
| Lowest                                            | 16QAM     | 1    | 0      | 22.12       | 0.1629        | 23.22     | 0.2099  |
| Middle                                            |           | 1    | 0      | 22.39       | 0.1734        | 23.49     | 0.2234  |
| Highest                                           |           | 1    | 0      | 22.75       | 0.1884        | 23.85     | 0.2427  |
| Limit                                             | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 66 / 3MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 14     | 22.87       | 0.1936        | 23.97     | 0.2495  |
| Middle                                          |           | 1    | 14     | 23.12       | 0.2051        | 24.22     | 0.2642  |
| Highest                                         |           | 1    | 14     | 23.41       | 0.2193        | 24.51     | 0.2825  |
| Lowest                                          | 16QAM     | 1    | 8      | 22.04       | 0.1600        | 23.14     | 0.2061  |
| Middle                                          |           | 1    | 8      | 22.34       | 0.1714        | 23.44     | 0.2208  |
| Highest                                         |           | 1    | 8      | 22.68       | 0.1854        | 23.78     | 0.2388  |
| Limit                                           | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 66 / 5MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|-------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                         | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                 |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                          | QPSK      | 1    | 24     | 22.91       | 0.1954        | 24.01     | 0.2518  |
| Middle                                          |           | 1    | 24     | 23.29       | 0.2133        | 24.39     | 0.2748  |
| Highest                                         |           | 1    | 24     | 23.42       | 0.2198        | 24.52     | 0.2831  |
| Lowest                                          | 16QAM     | 1    | 24     | 22.20       | 0.1660        | 23.30     | 0.2138  |
| Middle                                          |           | 1    | 24     | 22.52       | 0.1786        | 23.62     | 0.2301  |
| Highest                                         |           | 1    | 24     | 22.78       | 0.1897        | 23.88     | 0.2443  |
| Limit                                           | EIRP < 1W |      |        | Result      |               | PASS      |         |



| LTE Band 66 / 10MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 49     | 23.31       | 0.2143        | 24.41     | 0.2761  |
| Middle                                           |           | 1    | 49     | 23.70       | 0.2344        | 24.80     | 0.3020  |
| Highest                                          |           | 1    | 49     | 23.69       | 0.2339        | 24.79     | 0.3013  |
| Lowest                                           | 16QAM     | 1    | 49     | 22.61       | 0.1824        | 23.71     | 0.2350  |
| Middle                                           |           | 1    | 49     | 23.00       | 0.1995        | 24.10     | 0.2570  |
| Highest                                          |           | 1    | 49     | 22.94       | 0.1968        | 24.04     | 0.2535  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 66 / 15MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 74     | 23.29       | 0.2133        | 24.39     | 0.2748  |
| Middle                                           |           | 1    | 74     | 23.78       | 0.2388        | 24.88     | 0.3076  |
| Highest                                          |           | 1    | 74     | 23.69       | 0.2339        | 24.79     | 0.3013  |
| Lowest                                           | 16QAM     | 1    | 74     | 22.64       | 0.1837        | 23.74     | 0.2366  |
| Middle                                           |           | 1    | 74     | 22.87       | 0.1936        | 23.97     | 0.2495  |
| Highest                                          |           | 1    | 74     | 22.90       | 0.1950        | 24.00     | 0.2512  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |

| LTE Band 66 / 20MHz (Average) (GT - LC = 1.1 dB) |           |      |        |             |               |           |         |
|--------------------------------------------------|-----------|------|--------|-------------|---------------|-----------|---------|
| Channel                                          | Mode      | RB   |        | Conducted   |               | EIRP      |         |
|                                                  |           | Size | Offset | Power (dBm) | Power (Watts) | EIRP(dBm) | EIRP(W) |
| Lowest                                           | QPSK      | 1    | 0      | 23.38       | 0.2178        | 24.48     | 0.2805  |
| Middle                                           |           | 1    | 0      | 23.32       | 0.2148        | 24.42     | 0.2767  |
| Highest                                          |           | 1    | 0      | 23.88       | 0.2443        | 24.98     | 0.3148  |
| Lowest                                           | 16QAM     | 1    | 0      | 22.42       | 0.1746        | 23.52     | 0.2249  |
| Middle                                           |           | 1    | 0      | 22.56       | 0.1803        | 23.66     | 0.2323  |
| Highest                                          |           | 1    | 0      | 22.95       | 0.1972        | 24.05     | 0.2541  |
| Limit                                            | EIRP < 1W |      |        | Result      |               | PASS      |         |

**Radiated Spurious Emission****Part22H LTE Band 5**

| LTE Band 5 / 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                    | 1648                 | -57.24         | -13              | -44.24                  | -71.74                  | -59                      | 0.98                       | 4.89                        | H                     |
|                           | 2472                 | -45.36         | -13              | -32.36                  | -62.99                  | -47.24                   | 1.28                       | 5.32                        | H                     |
|                           | 3296                 | -58.05         | -13              | -45.05                  | -79.07                  | -61.46                   | 1.54                       | 7.10                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1648                 | -57.27         | -13              | -44.27                  | -71.77                  | -59.03                   | 0.98                       | 4.89                        | V                     |
|                           | 2472                 | -45.85         | -13              | -32.85                  | -63.48                  | -47.73                   | 1.28                       | 5.32                        | V                     |
|                           | 3296                 | -58.28         | -13              | -45.28                  | -79.3                   | -61.69                   | 1.54                       | 7.10                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 1664                 | -57.15         | -13              | -44.15                  | -71.7                   | -58.86                   | 0.98                       | 4.84                        | H                     |
|                           | 2496                 | -49.14         | -13              | -36.14                  | -66.86                  | -51.09                   | 1.29                       | 5.39                        | H                     |
|                           | 3328                 | -57.97         | -13              | -44.97                  | -79.08                  | -61.51                   | 1.55                       | 7.24                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1664                 | -59.76         | -13              | -46.76                  | -74.31                  | -61.47                   | 0.98                       | 4.84                        | V                     |
|                           | 2496                 | -43.27         | -13              | -30.27                  | -60.99                  | -45.22                   | 1.29                       | 5.39                        | V                     |
|                           | 3328                 | -58.05         | -13              | -45.05                  | -79.16                  | -61.59                   | 1.55                       | 7.24                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1680 | -55.55 | -13 | -42.55 | -70.16 | -57.2  | 0.99 | 4.80 | H |
|         | 2520 | -52.14 | -13 | -39.14 | -69.95 | -54.11 | 1.30 | 5.42 | H |
|         | 3360 | -57.65 | -13 | -44.65 | -78.86 | -61.32 | 1.56 | 7.38 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1680 | -56.32 | -13 | -43.32 | -70.93 | -57.97 | 0.99 | 4.80 | V |
|         | 2520 | -53.38 | -13 | -40.38 | -71.19 | -55.35 | 1.30 | 5.42 | V |
|         | 3360 | -57.72 | -13 | -44.72 | -78.93 | -61.39 | 1.56 | 7.38 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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

**Part22H LTE Band 26**

| LTE Band 26 / 15MHz / 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                     | 1648                 | -53.85          | -13              | -40.85                  | -68.36                  | -55.61                   | 0.98                       | 4.89                        | H                     |
|                            | 2472                 | -49.56          | -13              | -36.56                  | -67.2                   | -51.44                   | 1.28                       | 5.32                        | H                     |
|                            | 4952                 | -52.14          | -13              | -39.14                  | -78.63                  | -57.28                   | 2.31                       | 9.60                        | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1648                 | -52.90          | -13              | -39.90                  | -67.41                  | -54.66                   | 0.98                       | 4.89                        | V                     |
|                            | 2472                 | -47.17          | -13              | -34.17                  | -64.81                  | -49.05                   | 1.28                       | 5.32                        | V                     |
|                            | 4952                 | -52.72          | -13              | -39.72                  | -79.21                  | -57.86                   | 2.31                       | 9.60                        | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1656                 | -59.48          | -13              | -46.48                  | -74.03                  | -61.21                   | 0.98                       | 4.86                        | H                     |
|                            | 2488                 | -41.45          | -13              | -28.45                  | -59.16                  | -43.38                   | 1.29                       | 5.36                        | H                     |
|                            | 4976                 | -51.23          | -13              | -38.23                  | -77.87                  | -56.41                   | 2.32                       | 9.65                        | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1656                 | -55.94          | -13              | -42.94                  | -70.29                  | -57.67                   | 0.98                       | 4.86                        | V                     |
|                            | 2488                 | -41.87          | -13              | -28.87                  | -59.58                  | -43.8                    | 1.29                       | 5.36                        | V                     |
|                            | 4976                 | -53.01          | -13              | -40.01                  | -79.65                  | -58.19                   | 2.32                       | 9.65                        | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1672 | -56.31 | -13 | -43.31 | -70.89 | -57.99 | 0.99 | 4.82 | H |
|         | 2504 | -46.18 | -13 | -33.18 | -63.91 | -48.14 | 1.29 | 5.40 | H |
|         | 4176 | -56.60 | -13 | -43.60 | -79.72 | -61.22 | 1.86 | 8.64 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1672 | -54.87 | -13 | -41.87 | -69.45 | -56.55 | 0.99 | 4.82 | V |
|         | 2504 | -39.94 | -13 | -26.94 | -57.67 | -41.9  | 1.29 | 5.40 | V |
|         | 4176 | -54.42 | -13 | -41.42 | -77.54 | -59.04 | 1.86 | 8.64 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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

**Part24E LTE Band 2**

| LTE Band 2 / 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                    | 3700                 | -56.99          | -13              | -43.99                  | -78.88                  | -63.56                   | 1.67                       | 8.24                        | H                     |
|                           | 5555                 | -52.68          | -13              | -39.68                  | -80.81                  | -59.75                   | 2.66                       | 9.72                        | H                     |
|                           | 7403                 | -46.27          | -13              | -33.27                  | -81.11                  | -55.42                   | 2.46                       | 11.61                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3700                 | -56.41          | -13              | -43.41                  | -78.3                   | -62.98                   | 1.67                       | 8.24                        | V                     |
|                           | 5555                 | -51.52          | -13              | -38.52                  | -79.95                  | -58.59                   | 2.66                       | 9.72                        | V                     |
|                           | 7403                 | -46.18          | -13              | -33.18                  | -81.02                  | -55.33                   | 2.46                       | 11.61                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3742                 | -56.20          | -13              | -43.20                  | -78.15                  | -62.81                   | 1.68                       | 8.29                        | H                     |
|                           | 5611                 | -51.28          | -13              | -38.28                  | -79.56                  | -58.34                   | 2.69                       | 9.74                        | H                     |
|                           | 7487                 | -46.21          | -13              | -33.21                  | -81.24                  | -55.55                   | 2.43                       | 11.77                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3742                 | -56.36          | -13              | -43.36                  | -78.31                  | -62.97                   | 1.68                       | 8.29                        | V                     |
|                           | 5611                 | -50.61          | -13              | -37.61                  | -78.89                  | -57.67                   | 2.69                       | 9.74                        | V                     |
|                           | 7487                 | -45.78          | -13              | -32.78                  | -80.81                  | -55.12                   | 2.43                       | 11.77                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3784 | -56.85 | -13 | -43.85 | -78.86 | -63.5  | 1.69 | 8.34  | H |
|         | 5674 | -51.62 | -13 | -38.62 | -80.11 | -58.66 | 2.73 | 9.77  | H |
|         | 7564 | -45.82 | -13 | -32.82 | -80.96 | -55.25 | 2.41 | 11.84 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3784 | -56.78 | -13 | -43.78 | -78.79 | -63.43 | 1.69 | 8.34  | V |
|         | 5674 | -51.46 | -13 | -38.46 | -79.95 | -58.5  | 2.73 | 9.77  | V |
|         | 7564 | -45.75 | -13 | -32.75 | -80.89 | -55.18 | 2.41 | 11.84 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

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

**Part27H 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                 | -51.33         | -13              | -38.33                  | -64.58                  | -52.99                   | 0.87                       | 4.68                        | H                     |
|                            | 2096                 | -33.46         | -13              | -20.46                  | -49.22                  | -34.33                   | 1.16                       | 4.19                        | H                     |
|                            | 2794                 | -59.54         | -13              | -46.54                  | -78.76                  | -61.64                   | 1.38                       | 5.64                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1400                 | -48.81         | -13              | -35.81                  | -62.06                  | -50.47                   | 0.87                       | 4.68                        | V                     |
|                            | 2096                 | -37.07         | -13              | -24.07                  | -52.83                  | -37.94                   | 1.16                       | 4.19                        | V                     |
|                            | 2794                 | -59.21         | -13              | -46.21                  | -78.43                  | -61.31                   | 1.38                       | 5.64                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1408                 | -48.25         | -13              | -35.25                  | -61.50                  | -49.96                   | 0.87                       | 4.73                        | H                     |
|                            | 2112                 | -36.45         | -13              | -23.45                  | -52.28                  | -37.37                   | 1.17                       | 4.24                        | H                     |
|                            | 2816                 | -59.60         | -13              | -46.60                  | -78.90                  | -61.71                   | 1.39                       | 5.65                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1408                 | -52.61         | -13              | -39.61                  | -65.86                  | -54.32                   | 0.87                       | 4.73                        | V                     |
|                            | 2112                 | -32.19         | -13              | -19.19                  | -48.02                  | -33.11                   | 1.17                       | 4.24                        | V                     |
|                            | 2816                 | -58.87         | -13              | -45.87                  | -78.17                  | -60.98                   | 1.39                       | 5.65                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1416 | -47.13 | -13 | -34.13 | -60.38 | -48.88 | 0.87 | 4.78 | H |
|         | 2120 | -36.14 | -13 | -23.14 | -52.05 | -37.08 | 1.17 | 4.26 | H |
|         | 2826 | -58.94 | -13 | -45.94 | -78.24 | -61.06 | 1.39 | 5.66 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1416 | -51.66 | -13 | -38.66 | -64.91 | -53.41 | 0.87 | 4.78 | V |
|         | 2120 | -43.37 | -13 | -30.37 | -59.28 | -44.31 | 1.17 | 4.26 | V |
|         | 2826 | -59.34 | -13 | -46.34 | -78.64 | -61.46 | 1.39 | 5.66 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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

**Part27H LTE Band 17**

| LTE Band 17 / 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                     | 1408                 | -48.81         | -13              | -35.81                  | -62.06                  | -50.52                   | 0.87                       | 4.73                        | H                     |
|                            | 2112                 | -37.00         | -13              | -24.00                  | -52.83                  | -37.92                   | 1.17                       | 4.24                        | H                     |
|                            | 2816                 | -59.35         | -13              | -46.35                  | -78.65                  | -61.46                   | 1.39                       | 5.65                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1408                 | -52.46         | -13              | -39.46                  | -65.71                  | -54.17                   | 0.87                       | 4.73                        | V                     |
|                            | 2112                 | -40.73         | -13              | -27.73                  | -56.56                  | -41.65                   | 1.17                       | 4.24                        | V                     |
|                            | 2816                 | -59.40         | -13              | -46.40                  | -78.70                  | -61.51                   | 1.39                       | 5.65                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1408                 | -54.93         | -13              | -41.93                  | -68.18                  | -56.64                   | 0.87                       | 4.73                        | H                     |
|                            | 2120                 | -36.68         | -13              | -23.68                  | -52.59                  | -37.62                   | 1.17                       | 4.26                        | H                     |
|                            | 2824                 | -59.28         | -13              | -46.28                  | -78.58                  | -61.40                   | 1.39                       | 5.66                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1408                 | -52.73         | -13              | -39.73                  | -65.98                  | -54.44                   | 0.87                       | 4.73                        | V                     |
|                            | 2120                 | -40.25         | -13              | -27.25                  | -56.16                  | -41.19                   | 1.17                       | 4.26                        | V                     |
|                            | 2824                 | -59.17         | -13              | -46.17                  | -78.47                  | -61.29                   | 1.39                       | 5.66                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1416 | -50.35 | -13 | -37.35 | -63.60 | -52.10 | 0.87 | 4.78 | H |
|         | 2120 | -36.18 | -13 | -23.18 | -52.09 | -37.12 | 1.17 | 4.26 | H |
|         | 2824 | -59.31 | -13 | -46.31 | -78.61 | -61.43 | 1.39 | 5.66 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1416 | -53.29 | -13 | -40.29 | -66.54 | -55.04 | 0.87 | 4.78 | V |
|         | 2120 | -40.20 | -13 | -27.20 | -56.11 | -41.14 | 1.17 | 4.26 | V |
|         | 2824 | -59.31 | -13 | -46.31 | -78.61 | -61.43 | 1.39 | 5.66 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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

**Part27L LTE Band 4**

| LTE Band 4 / 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                 | -64.16          | -13              | -51.16                  | -72.52                  | -70.23                   | 1.58                       | 7.65                        | H                     |
|                           | 5135                 | -47.69          | -13              | -34.69                  | -74.76                  | -54.98                   | 2.41                       | 9.70                        | H                     |
|                           | 10264                | -36.62          | -13              | -23.62                  | -79.03                  | -46.23                   | 2.69                       | 12.31                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3420                 | -50.44          | -13              | -37.44                  | -71.8                   | -56.51                   | 1.58                       | 7.65                        | H                     |
|                           | 5135                 | -46.62          | -13              | -33.62                  | -73.69                  | -53.91                   | 2.41                       | 9.70                        | V                     |
|                           | 10264                | -35.49          | -13              | -22.49                  | -77.9                   | -45.1                    | 2.69                       | 12.31                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3448                 | -51.05          | -13              | -38.05                  | -72.5                   | -57.23                   | 1.59                       | 7.77                        | H                     |
|                           | 5170                 | -49.89          | -13              | -36.89                  | -77.04                  | -57.16                   | 2.43                       | 9.70                        | H                     |
|                           | 6870                 | -47.04          | -13              | -34.04                  | -80.65                  | -55.05                   | 2.63                       | 10.64                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3448                 | -50.93          | -13              | -37.93                  | -72.38                  | -57.11                   | 1.59                       | 7.77                        | V                     |
|                           | 5170                 | -48.79          | -13              | -35.79                  | -75.94                  | -56.06                   | 2.43                       | 9.70                        | V                     |
|                           | 6870                 | -46.82          | -13              | -33.82                  | -80.43                  | -54.83                   | 2.63                       | 10.64                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |      |       |   |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3476  | -52.27 | -13 | -39.27 | -73.81 | -58.57 | 1.60 | 7.89  | H |
|         | 5212  | -51.78 | -13 | -38.78 | -79.06 | -59.02 | 2.46 | 9.70  | H |
|         | 10416 | -36.15 | -13 | -23.15 | -79.09 | -45.82 | 2.69 | 12.37 | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         | 3476  | -52.46 | -13 | -39.46 | -74    | -58.76 | 1.60 | 7.89  | V |
|         | 5212  | -50.83 | -13 | -37.83 | -78.11 | -58.07 | 2.46 | 9.70  | V |
|         | 10416 | -34.73 | -13 | -21.73 | -77.67 | -44.4  | 2.69 | 12.37 | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |

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

**Part27L 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                     | 1648                 | -53.85          | -13              | -40.85                  | -68.36                  | -55.61                   | 0.98                       | 4.89                        | H                     |
|                            | 2472                 | -49.56          | -13              | -36.56                  | -67.2                   | -51.44                   | 1.28                       | 5.32                        | H                     |
|                            | 4952                 | -52.14          | -13              | -39.14                  | -78.63                  | -57.28                   | 2.31                       | 9.60                        | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1648                 | -52.90          | -13              | -39.90                  | -67.41                  | -54.66                   | 0.98                       | 4.89                        | V                     |
|                            | 2472                 | -47.17          | -13              | -34.17                  | -64.81                  | -49.05                   | 1.28                       | 5.32                        | V                     |
|                            | 4952                 | -52.72          | -13              | -39.72                  | -79.21                  | -57.86                   | 2.31                       | 9.60                        | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1656                 | -59.48          | -13              | -46.48                  | -74.03                  | -61.21                   | 0.98                       | 4.86                        | H                     |
|                            | 2488                 | -41.45          | -13              | -28.45                  | -59.16                  | -43.38                   | 1.29                       | 5.36                        | H                     |
|                            | 4976                 | -51.23          | -13              | -38.23                  | -77.87                  | -56.41                   | 2.32                       | 9.65                        | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1656                 | -55.94          | -13              | -42.94                  | -70.29                  | -57.67                   | 0.98                       | 4.86                        | V                     |
|                            | 2488                 | -41.87          | -13              | -28.87                  | -59.58                  | -43.8                    | 1.29                       | 5.36                        | V                     |
|                            | 4976                 | -53.01          | -13              | -40.01                  | -79.65                  | -58.19                   | 2.32                       | 9.65                        | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |      |   |
|---------|------|--------|-----|--------|--------|--------|------|------|---|
| Highest | 1672 | -56.31 | -13 | -43.31 | -70.89 | -57.99 | 0.99 | 4.82 | H |
|         | 2504 | -46.18 | -13 | -33.18 | -63.91 | -48.14 | 1.29 | 5.40 | H |
|         | 4176 | -56.60 | -13 | -43.60 | -79.72 | -61.22 | 1.86 | 8.64 | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         |      |        |     |        |        |        |      |      | H |
|         | 1672 | -54.87 | -13 | -41.87 | -69.45 | -56.55 | 0.99 | 4.82 | V |
|         | 2504 | -39.94 | -13 | -26.94 | -57.67 | -41.9  | 1.29 | 5.40 | V |
|         | 4176 | -54.42 | -13 | -41.42 | -77.54 | -59.04 | 1.86 | 8.64 | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |
|         |      |        |     |        |        |        |      |      | V |

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

**Part27M 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                    | 5000                 | -52.79          | -25              | -27.79                  | -79.51                  | -60.15                   | 2.34                       | 9.70                        | H                     |
|                           | 7500                 | -44.34          | -25              | -19.34                  | -79.36                  | -53.71                   | 2.43                       | 11.80                       | H                     |
|                           | 10000                | -39.71          | -25              | -14.71                  | -81.16                  | -49.21                   | 2.70                       | 12.20                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5000                 | -53.04          | -25              | -28.04                  | -79.76                  | -60.4                    | 2.34                       | 9.70                        | V                     |
|                           | 7500                 | -44.52          | -25              | -19.52                  | -79.54                  | -53.89                   | 2.43                       | 11.80                       | V                     |
|                           | 10000                | -39.22          | -25              | -14.22                  | 80.67                   | -48.72                   | 2.70                       | 12.20                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 5056                 | -52.57          | -25              | -27.57                  | -79.41                  | -59.9                    | 2.37                       | 9.70                        | H                     |
|                           | 7584                 | -43.18          | -25              | -18.18                  | -78.35                  | -52.63                   | 2.40                       | 11.85                       | H                     |
|                           | 15161                | -29.17          | -25              | -4.17                   | -80.87                  | -39.33                   | 3.66                       | 13.83                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 5056                 | -52.95          | -25              | -27.95                  | -79.84                  | -60.28                   | 2.37                       | 9.70                        | V                     |
|                           | 7584                 | -41.97          | -25              | -16.97                  | -77.14                  | -51.42                   | 2.40                       | 11.85                       | V                     |
|                           | 15161                | -31.47          | -25              | -6.47                   | -80.87                  | -41.63                   | 3.66                       | 13.83                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |      |       |   |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 5104  | -52.57 | -25 | -27.57 | -79.55 | -59.87 | 2.40 | 9.70  | H |
|         | 7656  | -41.94 | -25 | -16.94 | -77.27 | -51.45 | 2.38 | 11.89 | H |
|         | 15310 | -30.94 | -25 | -5.94  | -79.83 | -41.25 | 3.73 | 14.03 | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         | 5104  | -52.60 | -25 | -27.60 | -79.58 | -59.9  | 2.40 | 9.70  | V |
|         | 7656  | -41.50 | -25 | -16.50 | -76.83 | -51.01 | 2.38 | 11.89 | V |
|         | 15310 | -30.86 | -25 | -5.86  | -79.75 | -41.17 | 3.73 | 14.03 | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |

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

**Part27M LTE Band 41**

| 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                 | -52.67          | -25              | -27.67                  | -79.39                  | -60.02                   | 2.33                       | 9.68                        | H                     |
|                            | 7488                 | -39.55          | -25              | -14.55                  | -74.58                  | -48.89                   | 2.43                       | 11.78                       | H                     |
|                            | 9984                 | -39.76          | -25              | -14.76                  | -81.17                  | -49.28                   | 2.69                       | 12.21                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 4992                 | -52.30          | -25              | -27.30                  | -79.02                  | -59.65                   | 2.33                       | 9.68                        | V                     |
|                            | 7488                 | -35.47          | -25              | -10.47                  | -70.5                   | -44.81                   | 2.43                       | 11.78                       | V                     |
|                            | 9984                 | -39.85          | -25              | -14.85                  | -81.26                  | -49.37                   | 2.69                       | 12.21                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 5172                 | -52.02          | -25              | -27.02                  | -79.16                  | -59.28                   | 2.44                       | 9.70                        | H                     |
|                            | 7752                 | -43.37          | -25              | -18.37                  | -78.85                  | -52.97                   | 2.35                       | 11.95                       | H                     |
|                            | 10332                | -38.20          | -25              | -13.20                  | -80.84                  | -47.84                   | 2.69                       | 12.33                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 5172                 | -49.38          | -25              | -24.38                  | -76.52                  | -56.64                   | 2.44                       | 9.70                        | V                     |
|                            | 7752                 | -39.50          | -25              | -14.50                  | -74.98                  | -49.1                    | 2.35                       | 11.95                       | V                     |
|                            | 10332                | -38.40          | -25              | -13.40                  | -81.04                  | -48.04                   | 2.69                       | 12.33                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |       |        |     |        |        |        |      |       |   |
|---------|-------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 5340  | -48.49 | -25 | -23.49 | -76.05 | -55.66 | 2.53 | 9.70  | H |
|         | 8016  | -41.15 | -25 | -16.15 | -77.1  | -50.99 | 2.27 | 12.11 | H |
|         | 10680 | -37.21 | -25 | -12.21 | -80.71 | -46.96 | 2.69 | 12.44 | H |
|         | 13356 | -34.72 | -25 | -9.72  | -81.19 | -45.2  | 3.02 | 13.50 | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         |       |        |     |        |        |        |      |       | H |
|         | 5340  | -46.13 | -25 | -21.13 | -73.69 | -53.3  | 2.53 | 9.70  | V |
|         | 8016  | -42.14 | -25 | -17.14 | -78.09 | -51.98 | 2.27 | 12.11 | V |
|         | 10680 | -37.25 | -25 | -12.25 | -80.75 | -47    | 2.69 | 12.44 | V |
|         | 13356 | -33.52 | -25 | -8.52  | -79.99 | -44    | 3.02 | 13.50 | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |
|         |       |        |     |        |        |        |      |       | V |

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