



# TEST REPORT

No. I21N04025-RF-LTE

for

**Guangdong OPPO Mobile Telecommunications Corp., Ltd.**

**Mobile Phone**

**Model Name: CPH2363**

**FCC ID: R9C-CPH2363**

with

**Hardware Version: 11**

**Software Version: ColorOS V12.1**

**Issued Date` : 2022-01-13**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

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No. I21N04025-RF-LTE

## **REPORT HISTORY**

| <b>Report Number</b> | <b>Revision</b> | <b>Description</b> | <b>Issue Date</b> |
|----------------------|-----------------|--------------------|-------------------|
| I21N04025-RF-LTE     | Rev.0           | 1st edition        | 2022-01-13        |



## **CONTENTS**

|                                                                         |           |
|-------------------------------------------------------------------------|-----------|
| <b>1. SUMMARY OF TEST REPORT .....</b>                                  | <b>4</b>  |
| <b>1.1. TEST ITEMS.....</b>                                             | <b>4</b>  |
| <b>1.2. TEST STANDARDS .....</b>                                        | <b>4</b>  |
| <b>1.3. TEST RESULT .....</b>                                           | <b>4</b>  |
| <b>1.4. TESTING LOCATION .....</b>                                      | <b>4</b>  |
| <b>1.5. PROJECT DATA .....</b>                                          | <b>4</b>  |
| <b>1.6. SIGNATURE.....</b>                                              | <b>4</b>  |
| <b>2. CLIENT INFORMATION .....</b>                                      | <b>5</b>  |
| <b>2.1. APPLICANT INFORMATION.....</b>                                  | <b>5</b>  |
| <b>2.2. MANUFACTURER INFORMATION.....</b>                               | <b>5</b>  |
| <b>3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE) .....</b> | <b>6</b>  |
| <b>3.1. ABOUT EUT.....</b>                                              | <b>6</b>  |
| <b>3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST .....</b>   | <b>6</b>  |
| <b>3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....</b>     | <b>6</b>  |
| <b>3.4. GENERAL DESCRIPTION .....</b>                                   | <b>7</b>  |
| <b>4. REFERENCE DOCUMENTS.....</b>                                      | <b>8</b>  |
| <b>5. LABORATORY ENVIRONMENT.....</b>                                   | <b>9</b>  |
| <b>6. SUMMARY OF TEST RESULTS.....</b>                                  | <b>10</b> |
| <b>7. STATEMENT .....</b>                                               | <b>14</b> |
| <b>8. TEST EQUIPMENTS UTILIZED .....</b>                                | <b>15</b> |
| <b>ANNEX A: MEASUREMENT RESULTS .....</b>                               | <b>16</b> |
| A.1 OUTPUT POWER.....                                                   | 16        |
| A.2 FIELD STRENGTH OF SPURIOUS RADIATION.....                           | 83        |
| A.3 FREQUENCY STABILITY .....                                           | 133       |
| A.4 OCCUPIED BANDWIDTH .....                                            | 138       |
| A.5 EMISSION BANDWIDTH .....                                            | 216       |
| A.6 BAND EDGE COMPLIANCE .....                                          | 295       |
| A.7 CONDUCTED SPURIOUS EMISSION .....                                   | 312       |
| A.8 PEAK-TO-AVERAGE POWER RATIO .....                                   | 318       |



## 1. SUMMARY OF TEST REPORT

### 1.1. Test Items

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Description         | Mobile Phone                                         |
| Model Name          | CPH2363                                              |
| Applicant's name    | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |
| Manufacturer's Name | Guangdong OPPO Mobile Telecommunications Corp., Ltd. |

### 1.2. Test Standards

|                        |                 |
|------------------------|-----------------|
| FCC Part 2/22/24/27/90 | 10-1-19 Edition |
| ANSI C63.26            | 2015            |
| KDB971168 D01          | v03r01          |

### 1.3. Test Result

All test items are passed. Please refer to "6 Summary of Test Results" for detail.

### 1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China 518000

### 1.5. Project Data

Testing Start Date: 2021-12-21                      Testing End Date: 2022-01-13

### 1.6. Signature

Tan Pei  
(Prepared this test report)

Huang Qiuqin  
(Reviewed this test report)

Zhang Hao  
(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1. Applicant Information**

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
Address /Post: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,  
Guangdong, China  
Contact Person: Mei XiLi  
Contact Email: meixili@oppo.com  
Telephone: (86)76986076999  
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### **2.2. Manufacturer Information**

Company Name: Guangdong OPPO Mobile Telecommunications Corp., Ltd.  
Address /Post: NO.18 Haibin Road, Wusha Village, Chang'an Town, Dongguan City,  
Guangdong, China  
Contact Person: Mei XiLi  
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Fax: /

**3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT****(AE)****3.1. About EUT**

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| Description                  | Mobile Phone                                                    |
| Model Name                   | CPH2363                                                         |
| FCC ID                       | R9C-CPH2363                                                     |
| Frequency Bands              | LTE Bands 2,4,5,7,12,17,18,19,26,38,41<br>(2535MHz~2655MHz), 66 |
| Antenna                      | Integrated                                                      |
| Extreme vol. Limits          | 3.60V to 4.45V (nominal: 3.87V)                                 |
| Condition of EUT as received | No abnormality in appearance                                    |

**3.2. Internal Identification of EUT used during the test**

| EUT ID* | IMEI            | HW Version | SW Version    | Sample Arrival Date |
|---------|-----------------|------------|---------------|---------------------|
| UT01aa  | 861150050032755 | 11         | ColorOS V12.1 | 2021-12-23          |
| UT07aa  | 861150050033076 | 11         | ColorOS V12.1 | 2021-12-23          |

\*EUT ID: is used to identify the test sample in the lab internally.

UT07aa is used for conduction test, UT1aa is used for radiation test.

**3.3. Internal Identification of AE used during the test**

| AE ID*          | Description                         |
|-----------------|-------------------------------------|
| AE1             | Battery                             |
| AE2             | Charger                             |
| AE3             | USB Cable                           |
| AE4             | Headset                             |
| AE5             | RF Cable                            |
| AE1             |                                     |
| Model           | BLP907                              |
| Manufacturer    | Sunwoda Electronic Co., Ltd.        |
| Capacity        | 4385mAh                             |
| Nominal Voltage | 3.87 V                              |
| AE2             |                                     |
| Model           | VCB3HDUH                            |
| Manufacturer    | Shenzhen Huntkey Electric Co., Ltd. |
| Specification   | American Standard Charger           |
| AE3             |                                     |
| Model           | DL143                               |
| Manufacturer    | /                                   |
| AE4             |                                     |
| Model           | MH157                               |
| Manufacturer    | /                                   |

\*AE ID: is used to identify the test sample in the lab internally.



No. I21N04025-RF-LTE

#### **3.4. General Description**

The Equipment Under Test (EUT) is a model Mobile Phone with integrated antenna. It consists of normal options: lithium battery, charger. Manual and specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the Client.



#### **4. REFERENCE DOCUMENTS**

The following documents listed in this section are referred for testing.

| <b>Reference</b> | <b>Title</b>                                                                                         | <b>Version</b>     |
|------------------|------------------------------------------------------------------------------------------------------|--------------------|
| FCC Part 22      | PUBLIC MOBILE SERVICES                                                                               | 10-1-19<br>Edition |
| FCC Part 24      | PERSONAL COMMUNICATIONS SERVICES                                                                     | 10-1-19<br>Edition |
| FCC Part 2       | FREQUENCY ALLOCATIONS AND RADIO TREATY<br>MATTERS; GENERAL RULES AND REGULATIONS                     | 10-1-19<br>Edition |
| FCC Part 27      | MISCELLANEOUS WIRELESS COMMUNICATIONS<br>SERVICES                                                    | 10-1-19<br>Edition |
| FCC Part 90      | PRIVATE LAND MOBILE RADIO SERVICES                                                                   | 10-1-19<br>Edition |
| ANSI C63.26      | American National Standard for Compliance Testing of<br>Transmitters Used in Licensed Radio Services | 2015               |
| KDB971168 D01    | Power Meas License Digital Systems                                                                   | v03r01             |

## 5. LABORATORY ENVIRONMENT

**Shielded room** did not exceed following limits along the RF testing:

|                          |                                          |
|--------------------------|------------------------------------------|
| Temperature              | Min. = 15 °C, Max. = 35 °C               |
| Relative humidity        | Min. = 20 %, Max. = 75 %                 |
| Shielding effectiveness  | 0.014MHz-1MHz>60 dB; 1MHz-18000MHz>90 dB |
| Electrical insulation    | >2 MΩ                                    |
| Ground system resistance | < 4 Ω                                    |

**Fully-anechoic chamber** did not exceed following limits along the EMC testing

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Temperature                        | Min. = 15 °C, Max. = 35 °C                |
| Relative humidity                  | Min. = 20 %, Max. = 75 %                  |
| Shielding effectiveness            | 0.014MHz-1MHz> 60 dB; 1MHz-18000MHz>90 dB |
| Electrical insulation              | > 2MΩ                                     |
| Ground system resistance           | < 4 Ω                                     |
| Voltage Standing Wave Ratio (VSWR) | ≤ 6 dB, from 1 to 18 GHz, 3 m distance    |
| Uniformity of field strength       | Between 0 and 6 dB, from 80 to 6000 MHz   |

## 6. SUMMARY OF TEST RESULTS

| Abbreviations used in this clause: |         |                                                                                                       |
|------------------------------------|---------|-------------------------------------------------------------------------------------------------------|
| Verdict Column                     | P       | Pass                                                                                                  |
|                                    | F       | Fail                                                                                                  |
|                                    | NA      | Not applicable                                                                                        |
|                                    | NM      | Not measured                                                                                          |
| Location Column                    | A/B/C/D | The test is performed in test location A, B, C or D which are described in section 1.4 of this report |

NOTE: As the frequency band range of LTE Band 41(2545-2655MHz) overlaps the range of LTE Band 38(2570-2620MHz), LTE Band 26(814-849MHz) overlaps the range of LTE Band 5(824-849MHz), LTE Band 18(815-830MHz), LTE Band 19(830-845MHz), LTE Band 12(699-716MHz) overlaps the range of LTE Band 17(704-716MHz). The channel bandwidth and other perating parameters for LTE Band 38 are fully supported by LTE Band 41, the channel bandwidth and other perating parameters for LTE Band 5/18/19 are fully supported by LTE Band 26, the channel bandwidth and other perating parameters for LTE Band 17 are fully supported by LTE Band 12 and the maximum output power of LTE Band 41 is larger than the LTE Band 38, the maximum output power of LTE Band 26 is larger than the LTE Band 5/18/19, the maximum output power of LTE Band 12 is larger than the LTE Band 17, we just need to test all the cases of LTE Band 41, LTE Band 26, LTE Band 12.

### LTE Band 2

| Items | Test Name                            | Clause in FCC rules   | Section in this report | Verdict |
|-------|--------------------------------------|-----------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/24.232         | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/24.238         | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/24.235         | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/24.238         | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/24.238         | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/24.238         | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/24.238         | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | 24.232/ KDB971168 D01 | A.8                    | P       |

### LTE Band 4

| Items | Test Name                            | Clause in FCC rules | Section in this report | Verdict |
|-------|--------------------------------------|---------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/27.50(d)     | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/27.53(h)     | A.2                    | P       |

|   |                             |                            |     |   |
|---|-----------------------------|----------------------------|-----|---|
| 3 | Frequency Stability         | 2.1055/27.54               | A.3 | P |
| 4 | Occupied Bandwidth          | 2.1049/27.53(g)            | A.4 | P |
| 5 | Emission Bandwidth          | 2.1049/27.53(g)            | A.5 | P |
| 6 | Band Edge Compliance        | 2.1051/27.53(h)            | A.6 | P |
| 7 | Conducted Spurious Emission | 2.1051/27.53(h)            | A.7 | P |
| 8 | Peak-to-Average Power Ratio | 27.50(d)/<br>KDB971168 D01 | A.8 | P |

#### LTE Band 7

| Items | Test Name                            | Clause in FCC rules        | Section in this report | Verdict |
|-------|--------------------------------------|----------------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/27.50(h)            | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/27.53(m)            | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/27.54               | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/27.53(m)            | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/27.53(m)            | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/27.53(m)            | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/27.53(m)            | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | 27.50(a)/<br>KDB971168 D01 | A.8                    | P       |

#### LTE Band 12

| Items | Test Name                            | Clause in FCC rules        | Section in this report | Verdict |
|-------|--------------------------------------|----------------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/27.50(c)            | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/27.53(g)            | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/27.54               | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/27.53(g)            | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/27.53(g)            | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/27.53(g)            | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/27.53(g)            | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | 27.50(a)/<br>KDB971168 D01 | A.8                    | P       |

**LTE Band 26(814MHz-824MHz)**

| Items | Test Name                            | Clause in FCC rules | Section in this report | Verdict |
|-------|--------------------------------------|---------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/90.635       | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/90.691       | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/90.213       | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/90.1215      | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/90.1215      | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/90.691       | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/90.691       | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | KDB971168 D01       | A.8                    | P       |

**LTE band 26(824MHz-849MHz)**

| Items | Test Name                            | Clause in FCC rules | Section in this report | Verdict |
|-------|--------------------------------------|---------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/22.913       | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/22.917       | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/22.355       | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/22.917       | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/22.917       | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/22.917       | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/22.917       | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | KDB971168 D01       | A.8                    | P       |

**LTE Band 41**

| Items | Test Name                            | Clause in FCC rules        | Section in this report | Verdict |
|-------|--------------------------------------|----------------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/27.50(h)            | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/27.53(m)            | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/27.54               | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/27.53(m)            | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/27.53(m)            | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/27.53(m)            | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/27.53(m)            | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | 27.50(a)/<br>KDB971168 D01 | A.8                    | P       |

**LTE Band 66**

| Items | Test Name                            | Clause in FCC rules        | Section in this report | Verdict |
|-------|--------------------------------------|----------------------------|------------------------|---------|
| 1     | Output Power                         | 2.1046/27.50(d)            | A.1                    | P       |
| 2     | Field Strength of Spurious Radiation | 2.1053/27.53(h)            | A.2                    | P       |
| 3     | Frequency Stability                  | 2.1055/27.54               | A.3                    | P       |
| 4     | Occupied Bandwidth                   | 2.1049/27.53(h)            | A.4                    | P       |
| 5     | Emission Bandwidth                   | 2.1049/27.53(h)            | A.5                    | P       |
| 6     | Band Edge Compliance                 | 2.1051/27.53(h)            | A.6                    | P       |
| 7     | Conducted Spurious Emission          | 2.1051/27.53(h)            | A.7                    | P       |
| 8     | Peak-to-Average Power Ratio          | 27.50(a)/<br>KDB971168 D01 | A.8                    | P       |



No. I21N04025-RF-LTE

## **7. STATEMENT**

Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

## 8. TEST EQUIPMENTS UTILIZED

| NO. | Description                          | TYPE                  | Manufacture          | series number | CAL DUE DATE |
|-----|--------------------------------------|-----------------------|----------------------|---------------|--------------|
| 1   | Test Receiver                        | ESR7                  | R&S                  | 101676        | 2022-11-24   |
| 2   | BiLog Antenna                        | 3142E                 | ETS-Lindgren         | 0224831       | 2024-05-27   |
| 3   | Horn Antenna                         | 3117                  | ETS-Lindgren         | 00066577      | 2022-04-02   |
| 4   | Horn Antenna                         | QSH-SL-18<br>-26-S-20 | Q-par                | 17013         | 2023-01-06   |
| 5   | Antenna                              | BBHA<br>9120D         | Schwarzbeck          | 1593          | 2022-12-05   |
| 6   | Antenna                              | VUBA 9117             | Schwarzbeck          | 207           | 2023-07-15   |
| 7   | Antenna                              | QWH-SL-18<br>-40-K-SG | Q-par                | 15979         | 2023-01-06   |
| 8   | preamplifier                         | 83017A                | Agilent              | MY39501110    | /            |
| 9   | Signal Generator                     | SMB100A               | R&S                  | 179725        | 2022-11-24   |
| 10  | Fully Anechoic Chamber               | FACT3-2.0             | ETS-Lindgren         | 1285          | 2023-05-29   |
| 11  | Spectrum Analyzer                    | FSV40                 | R&S                  | 101192        | 2022-01-13   |
| 12  | Universal Radio Communication Tester | CMW500                | R&S                  | 152499        | 2022-07-15   |
| 13  | Universal Radio Communication Tester | CMW500                | R&S                  | 129146        | 2022-04-24   |
| 14  | Spectrum Analyzer                    | FSU                   | R&S                  | 101506        | 2022-12-13   |
| 15  | Temperature Chamber                  | SH-241                | ESPEC                | 92007516      | 2022-10-15   |
| 16  | DC Power Supply                      | U3606A                | Agilent Technologies | MY50450012    | 2022-11-13   |
| 17  | Spectrum Analyzer                    | FSW26                 | R&S                  | 102197        | 2022-11-24   |

### Test software

| Item     | Name  | Vesion    |
|----------|-------|-----------|
| Radiated | EMC32 | V10.50.40 |

## **ANNEX A: MEASUREMENT RESULTS**

### **A.1 OUTPUT POWER**

#### **Reference**

FCC: CFR Part 2.1046, 22.913, 24.232, 27.50, 90.542,90.635.

#### **A.1.1 Summary**

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation.

This result contains peak output power and ERP/EIRP measurements for the EUT.

In all cases, output power is within the specified limits.

#### **A.1.2 Conducted**

##### **A.1.2.1 Method of Measurements**

The EUT was set up for the max output power with pseudo random data modulation.

These measurements were done at 3 frequencies (bottom, middle and top of operational frequency range) for each bandwidth.

##### **A.1.2.2 Measurement result**

##### **LTE band 2**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 1909.3          | 22.42      | 21.13 | 20.84 |
|           |                | 1880.0          | 22.33      | 21.51 | 20.52 |
|           |                | 1850.7          | 22.41      | 21.32 | 20.89 |
|           | 1 RB low       | 1909.3          | 22.38      | 21.25 | 20.84 |
|           |                | 1880.0          | 22.31      | 21.60 | 20.67 |
|           |                | 1850.7          | 22.49      | 21.31 | 20.87 |
|           | 50% RB mid     | 1909.3          | 22.39      | 21.43 | 20.14 |
|           |                | 1880.0          | 22.50      | 21.48 | 20.64 |
|           |                | 1850.7          | 22.69      | 21.34 | 20.61 |
|           | 100% RB        | 1909.3          | 21.38      | 20.39 | 19.62 |
|           |                | 1880.0          | 21.44      | 20.32 | 19.45 |
|           |                | 1850.7          | 21.37      | 20.52 | 19.55 |
| 3MHz      | 1 RB high      | 1908.5          | 22.24      | 21.21 | 20.83 |
|           |                | 1880.0          | 22.45      | 21.57 | 20.44 |
|           |                | 1851.5          | 22.32      | 21.20 | 20.46 |
|           | 1 RB low       | 1908.5          | 22.30      | 21.21 | 20.67 |
|           |                | 1880.0          | 22.47      | 20.87 | 20.49 |
|           |                | 1851.5          | 22.36      | 21.33 | 20.54 |
|           | 50% RB mid     | 1908.5          | 21.37      | 20.56 | 19.34 |
|           |                | 1880.0          | 21.42      | 20.48 | 19.62 |
|           |                | 1851.5          | 21.35      | 20.50 | 19.60 |



|       |            |        |       |       |       |
|-------|------------|--------|-------|-------|-------|
|       | 100% RB    | 1908.5 | 21.40 | 20.44 | 19.63 |
|       |            | 1880.0 | 21.35 | 20.45 | 19.65 |
|       |            | 1851.5 | 21.38 | 20.52 | 19.47 |
| 5MHz  | 1 RB high  | 1907.5 | 22.38 | 21.16 | 20.40 |
|       |            | 1880.0 | 22.31 | 21.24 | 20.44 |
|       |            | 1852.5 | 22.32 | 21.09 | 20.87 |
|       | 1 RB low   | 1907.5 | 22.22 | 21.15 | 20.42 |
|       |            | 1880.0 | 22.23 | 21.19 | 20.49 |
|       |            | 1852.5 | 22.23 | 21.23 | 20.49 |
|       | 50% RB mid | 1907.5 | 21.43 | 20.26 | 19.67 |
|       |            | 1880.0 | 21.40 | 20.41 | 19.49 |
|       |            | 1852.5 | 21.35 | 20.49 | 19.45 |
|       | 100% RB    | 1907.5 | 21.39 | 20.39 | 19.48 |
|       |            | 1880.0 | 21.35 | 20.33 | 19.48 |
|       |            | 1852.5 | 21.41 | 20.32 | 19.60 |
| 10MHz | 1 RB high  | 1905.0 | 22.38 | 21.37 | 20.58 |
|       |            | 1880.0 | 22.59 | 21.80 | 20.53 |
|       |            | 1855.0 | 22.46 | 21.23 | 20.86 |
|       | 1 RB low   | 1905.0 | 22.53 | 21.42 | 20.63 |
|       |            | 1880.0 | 22.53 | 21.27 | 20.48 |
|       |            | 1855.0 | 22.26 | 21.32 | 20.43 |
|       | 50% RB mid | 1905.0 | 21.40 | 20.41 | 19.77 |
|       |            | 1880.0 | 21.38 | 20.40 | 19.77 |
|       |            | 1855.0 | 21.39 | 20.42 | 19.75 |
|       | 100% RB    | 1905.0 | 21.35 | 20.46 | 19.49 |
|       |            | 1880.0 | 21.35 | 20.36 | 19.63 |
|       |            | 1855.0 | 21.34 | 20.48 | 19.61 |
| 15MHz | 1 RB high  | 1902.5 | 22.36 | 20.87 | 20.57 |
|       |            | 1880.0 | 22.41 | 21.12 | 20.72 |
|       |            | 1857.5 | 22.34 | 21.16 | 20.92 |
|       | 1 RB low   | 1902.5 | 22.48 | 21.25 | 20.57 |
|       |            | 1880.0 | 22.43 | 21.22 | 21.03 |
|       |            | 1857.5 | 22.51 | 20.96 | 20.77 |
|       | 50% RB mid | 1902.5 | 21.35 | 20.46 | 19.63 |
|       |            | 1880.0 | 21.37 | 20.37 | 19.71 |
|       |            | 1857.5 | 21.36 | 20.40 | 19.60 |
|       | 100% RB    | 1902.5 | 21.36 | 20.36 | 19.49 |
|       |            | 1880.0 | 21.34 | 20.54 | 19.47 |
|       |            | 1857.5 | 21.36 | 20.37 | 19.47 |



|       |            |        |       |       |       |
|-------|------------|--------|-------|-------|-------|
| 20MHz | 1 RB high  | 1900.0 | 22.32 | 21.20 | 20.52 |
|       |            | 1880.0 | 22.29 | 21.09 | 20.51 |
|       |            | 1860.0 | 22.39 | 21.08 | 20.52 |
|       | 1 RB low   | 1900.0 | 22.09 | 21.25 | 20.61 |
|       |            | 1880.0 | 22.20 | 21.24 | 20.54 |
|       |            | 1860.0 | 22.28 | 21.00 | 20.70 |
|       | 50% RB mid | 1900.0 | 21.40 | 20.51 | 19.58 |
|       |            | 1880.0 | 21.34 | 20.44 | 19.68 |
|       |            | 1860.0 | 21.29 | 20.23 | 19.62 |
|       | 100% RB    | 1900.0 | 21.32 | 20.45 | 19.47 |
|       |            | 1880.0 | 21.37 | 20.48 | 19.48 |
|       |            | 1860.0 | 21.30 | 20.41 | 19.62 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 4**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 1754.3          | 22.46      | 21.44 | 20.83 |
|           |                | 1732.5          | 22.51      | 21.25 | 20.95 |
|           |                | 1710.7          | 22.58      | 21.91 | 20.71 |
|           | 1 RB low       | 1754.3          | 22.39      | 21.47 | 20.88 |
|           |                | 1732.5          | 22.47      | 21.51 | 20.81 |
|           |                | 1710.7          | 22.53      | 21.69 | 20.75 |
|           | 50% RB mid     | 1754.3          | 22.56      | 21.81 | 20.65 |
|           |                | 1732.5          | 22.48      | 21.81 | 20.65 |
|           |                | 1710.7          | 22.61      | 21.82 | 20.24 |
|           | 100% RB        | 1754.3          | 21.57      | 20.56 | 19.44 |
|           |                | 1732.5          | 21.61      | 20.61 | 19.47 |
|           |                | 1710.7          | 21.73      | 20.40 | 19.57 |
| 3MHz      | 1 RB high      | 1753.5          | 22.48      | 21.46 | 20.62 |
|           |                | 1732.5          | 22.40      | 21.30 | 20.51 |
|           |                | 1711.5          | 22.58      | 21.77 | 20.65 |
|           | 1 RB low       | 1753.5          | 22.52      | 21.27 | 20.61 |
|           |                | 1732.5          | 22.51      | 21.40 | 20.56 |
|           |                | 1711.5          | 22.39      | 21.56 | 20.65 |
|           | 50% RB mid     | 1753.5          | 21.52      | 20.30 | 19.48 |
|           |                | 1732.5          | 21.58      | 20.54 | 19.67 |
|           |                | 1711.5          | 21.72      | 20.46 | 19.60 |
|           | 100% RB        | 1753.5          | 21.54      | 20.45 | 19.78 |
|           |                | 1732.5          | 21.62      | 20.54 | 19.57 |
|           |                | 1711.5          | 21.66      | 20.52 | 19.80 |
| 5MHz      | 1 RB high      | 1752.5          | 22.48      | 21.61 | 20.66 |
|           |                | 1732.5          | 22.18      | 21.38 | 20.57 |
|           |                | 1712.5          | 22.59      | 21.38 | 20.56 |
|           | 1 RB low       | 1752.5          | 22.53      | 21.61 | 20.69 |
|           |                | 1732.5          | 22.45      | 21.30 | 20.53 |
|           |                | 1712.5          | 22.36      | 21.24 | 19.88 |
|           | 50% RB mid     | 1752.5          | 21.74      | 20.47 | 19.93 |
|           |                | 1732.5          | 21.65      | 20.57 | 19.82 |
|           |                | 1712.5          | 21.67      | 20.68 | 19.83 |
|           | 100% RB        | 1752.5          | 21.68      | 20.52 | 19.89 |
|           |                | 1732.5          | 21.60      | 20.54 | 19.50 |
|           |                | 1712.5          | 21.73      | 20.75 | 19.63 |
| 10MHz     | 1 RB high      | 1750.0          | 22.47      | 21.65 | 20.64 |

|       |            |        |       |       |       |
|-------|------------|--------|-------|-------|-------|
|       |            | 1732.5 | 22.44 | 21.41 | 20.56 |
|       |            | 1715.0 | 22.68 | 21.55 | 20.71 |
|       |            | 1750.0 | 22.76 | 21.66 | 20.73 |
|       | 1 RB low   | 1732.5 | 22.67 | 21.50 | 20.59 |
|       |            | 1715.0 | 22.73 | 21.70 | 20.82 |
|       |            | 1750.0 | 21.70 | 20.62 | 19.93 |
|       | 50% RB mid | 1732.5 | 21.53 | 20.43 | 19.87 |
|       |            | 1715.0 | 21.74 | 20.63 | 19.97 |
|       |            | 1750.0 | 21.75 | 20.70 | 19.70 |
|       | 100% RB    | 1732.5 | 21.61 | 20.53 | 19.77 |
|       |            | 1715.0 | 21.74 | 20.71 | 19.73 |
|       |            | 1750.0 | 21.75 | 20.70 | 19.70 |
| 15MHz | 1 RB high  | 1747.5 | 22.65 | 21.54 | 20.75 |
|       |            | 1732.5 | 22.50 | 21.74 | 20.66 |
|       |            | 1717.5 | 22.66 | 21.54 | 20.73 |
|       | 1 RB low   | 1747.5 | 22.73 | 21.47 | 20.93 |
|       |            | 1732.5 | 22.53 | 21.21 | 20.82 |
|       |            | 1717.5 | 22.78 | 21.75 | 20.90 |
|       | 50% RB mid | 1747.5 | 21.72 | 20.65 | 19.85 |
|       |            | 1732.5 | 21.60 | 20.52 | 19.81 |
|       |            | 1717.5 | 21.69 | 20.59 | 19.97 |
|       | 100% RB    | 1747.5 | 21.77 | 20.58 | 19.65 |
|       |            | 1732.5 | 21.55 | 20.53 | 19.66 |
|       |            | 1717.5 | 21.74 | 20.56 | 19.76 |
| 20MHz | 1 RB high  | 1745.0 | 22.68 | 21.48 | 20.69 |
|       |            | 1732.5 | 22.74 | 21.50 | 20.56 |
|       |            | 1720.0 | 22.61 | 21.33 | 20.65 |
|       | 1 RB low   | 1745.0 | 22.90 | 21.60 | 20.81 |
|       |            | 1732.5 | 22.79 | 21.60 | 20.74 |
|       |            | 1720.0 | 22.65 | 21.57 | 20.82 |
|       | 50% RB mid | 1745.0 | 21.75 | 20.69 | 19.75 |
|       |            | 1732.5 | 21.62 | 20.44 | 19.60 |
|       |            | 1720.0 | 21.67 | 20.55 | 19.83 |
|       | 100% RB    | 1745.0 | 21.73 | 20.63 | 19.86 |
|       |            | 1732.5 | 21.57 | 20.46 | 19.73 |
|       |            | 1720.0 | 21.68 | 20.56 | 19.81 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$

**LTE band 7**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 5MHz      | 1 RB high      | 2567.5          | 22.22      | 21.20 | 20.42 |
|           |                | 2535.0          | 22.16      | 21.12 | 20.26 |
|           |                | 2502.5          | 21.98      | 20.71 | 20.12 |
|           | 1 RB low       | 2567.5          | 22.00      | 20.76 | 20.31 |
|           |                | 2535.0          | 21.83      | 20.79 | 20.24 |
|           |                | 2502.5          | 21.90      | 20.42 | 20.02 |
|           | 50% RB mid     | 2567.5          | 21.39      | 20.47 | 19.45 |
|           |                | 2535.0          | 21.21      | 20.27 | 19.13 |
|           |                | 2502.5          | 20.93      | 19.80 | 18.94 |
|           | 100% RB        | 2567.5          | 21.38      | 20.26 | 19.50 |
|           |                | 2535.0          | 21.23      | 20.14 | 19.23 |
|           |                | 2502.5          | 20.94      | 20.08 | 18.88 |
| 10MHz     | 1 RB high      | 2565.0          | 22.41      | 21.82 | 20.58 |
|           |                | 2535.0          | 22.23      | 21.14 | 20.35 |
|           |                | 2505.0          | 21.98      | 20.88 | 20.02 |
|           | 1 RB low       | 2565.0          | 22.32      | 21.26 | 20.43 |
|           |                | 2535.0          | 22.06      | 21.13 | 20.22 |
|           |                | 2505.0          | 21.86      | 20.70 | 20.02 |
|           | 50% RB mid     | 2565.0          | 21.42      | 20.48 | 19.77 |
|           |                | 2535.0          | 21.18      | 20.37 | 19.19 |
|           |                | 2505.0          | 20.95      | 20.02 | 19.31 |
|           | 100% RB        | 2565.0          | 21.38      | 20.48 | 19.51 |
|           |                | 2535.0          | 21.24      | 20.35 | 19.36 |
|           |                | 2505.0          | 21.02      | 20.01 | 19.05 |
| 15MHz     | 1 RB high      | 2562.5          | 22.47      | 21.23 | 20.84 |
|           |                | 2535.0          | 22.14      | 21.18 | 20.51 |
|           |                | 2507.5          | 21.91      | 20.90 | 20.28 |
|           | 1 RB low       | 2562.5          | 22.20      | 21.10 | 20.61 |
|           |                | 2535.0          | 22.12      | 21.01 | 20.51 |
|           |                | 2507.5          | 20.77      | 20.87 | 20.26 |
|           | 50% RB mid     | 2562.5          | 21.44      | 20.43 | 19.65 |
|           |                | 2535.0          | 21.20      | 20.27 | 19.51 |
|           |                | 2507.5          | 21.04      | 20.09 | 19.30 |
|           | 100% RB        | 2562.5          | 21.42      | 20.52 | 19.59 |
|           |                | 2535.0          | 21.20      | 20.41 | 19.42 |
|           |                | 2507.5          | 21.08      | 20.00 | 19.15 |



# No. I21N04025-RF-LTE

|       |            |        |       |       |       |
|-------|------------|--------|-------|-------|-------|
| 20MHz | 1 RB high  | 2560.0 | 22.41 | 21.28 | 20.99 |
|       |            | 2535.0 | 22.33 | 21.03 | 20.53 |
|       |            | 2510.0 | 22.06 | 20.83 | 20.66 |
|       | 1 RB low   | 2560.0 | 22.25 | 21.07 | 20.37 |
|       |            | 2535.0 | 22.19 | 20.81 | 20.29 |
|       |            | 2510.0 | 21.85 | 20.50 | 20.55 |
|       | 50% RB mid | 2560.0 | 21.41 | 20.52 | 19.67 |
|       |            | 2535.0 | 21.26 | 20.29 | 19.46 |
|       |            | 2510.0 | 21.02 | 20.18 | 19.13 |
|       | 100% RB    | 2560.0 | 21.37 | 20.46 | 19.64 |
|       |            | 2535.0 | 21.23 | 20.32 | 19.46 |
|       |            | 2510.0 | 21.04 | 20.07 | 19.06 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 12**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 715.3           | 23.33      | 22.12 | 21.52 |
|           |                | 707.5           | 23.35      | 22.44 | 21.49 |
|           |                | 699.7           | 23.48      | 22.45 | 21.98 |
|           | 1 RB low       | 715.3           | 23.37      | 22.24 | 21.82 |
|           |                | 707.5           | 23.48      | 22.24 | 21.84 |
|           |                | 699.7           | 23.23      | 22.09 | 21.85 |
|           | 50% RB mid     | 715.3           | 23.48      | 22.69 | 21.65 |
|           |                | 707.5           | 23.64      | 22.29 | 21.57 |
|           |                | 699.7           | 23.52      | 22.44 | 21.69 |
|           | 100% RB        | 715.3           | 22.39      | 21.21 | 20.37 |
|           |                | 707.5           | 22.31      | 20.98 | 20.37 |
|           |                | 699.7           | 22.55      | 21.32 | 20.44 |
| 3MHz      | 1 RB high      | 714.5           | 23.42      | 22.40 | 21.59 |
|           |                | 707.5           | 23.40      | 22.18 | 21.58 |
|           |                | 700.5           | 23.48      | 22.44 | 21.39 |
|           | 1 RB low       | 714.5           | 23.37      | 22.40 | 21.98 |
|           |                | 707.5           | 23.40      | 22.38 | 21.46 |
|           |                | 700.5           | 23.59      | 22.13 | 21.41 |
|           | 50% RB mid     | 714.5           | 22.44      | 21.29 | 20.44 |
|           |                | 707.5           | 22.37      | 21.43 | 20.46 |
|           |                | 700.5           | 22.41      | 21.58 | 20.54 |
|           | 100% RB        | 714.5           | 22.40      | 21.19 | 20.60 |
|           |                | 707.5           | 22.37      | 21.38 | 20.59 |
|           |                | 700.5           | 22.48      | 21.10 | 20.44 |
| 5MHz      | 1 RB high      | 713.5           | 23.38      | 22.27 | 21.39 |
|           |                | 707.5           | 23.34      | 22.27 | 21.41 |
|           |                | 701.5           | 23.39      | 22.34 | 21.54 |
|           | 1 RB low       | 713.5           | 23.31      | 22.32 | 21.41 |
|           |                | 707.5           | 23.04      | 22.21 | 21.43 |
|           |                | 701.5           | 23.35      | 22.35 | 21.49 |
|           | 50% RB mid     | 713.5           | 22.41      | 21.42 | 20.44 |
|           |                | 707.5           | 22.45      | 21.38 | 20.63 |
|           |                | 701.5           | 22.58      | 21.44 | 20.64 |
|           | 100% RB        | 713.5           | 22.33      | 21.53 | 20.51 |
|           |                | 707.5           | 22.44      | 21.32 | 20.32 |
|           |                | 701.5           | 22.44      | 21.66 | 20.52 |
| 10MHz     | 1 RB high      | 711.0           | 23.37      | 22.27 | 21.74 |



# No. I21N04025-RF-LTE

|  |            |       |       |       |       |
|--|------------|-------|-------|-------|-------|
|  |            | 707.5 | 23.49 | 22.26 | 21.70 |
|  |            | 704.0 | 23.40 | 22.12 | 21.48 |
|  | 1 RB low   | 711.0 | 23.40 | 22.18 | 21.31 |
|  |            | 707.5 | 23.46 | 22.16 | 21.27 |
|  |            | 704.0 | 23.33 | 22.11 | 21.50 |
|  | 50% RB mid | 711.0 | 22.45 | 21.40 | 20.71 |
|  |            | 707.5 | 22.33 | 21.52 | 20.63 |
|  |            | 704.0 | 22.41 | 21.52 | 20.62 |
|  | 100% RB    | 711.0 | 22.45 | 21.47 | 20.45 |
|  |            | 707.5 | 22.40 | 21.28 | 20.40 |
|  |            | 704.0 | 22.43 | 21.45 | 20.51 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 26(814MHz-824MHz)**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 823.3           | 22.95      | 21.76 | 21.05 |
|           |                | 819.0           | 22.82      | 22.18 | 21.33 |
|           |                | 814.7           | 23.36      | 22.04 | 21.12 |
|           | 1 RB low       | 823.3           | 22.99      | 21.84 | 21.16 |
|           |                | 819.0           | 22.93      | 22.20 | 21.39 |
|           |                | 814.7           | 22.99      | 21.89 | 21.15 |
|           | 50% RB mid     | 823.3           | 23.18      | 21.74 | 21.13 |
|           |                | 819.0           | 23.13      | 22.07 | 21.12 |
|           |                | 814.7           | 23.16      | 22.06 | 20.71 |
|           | 100% RB        | 823.3           | 21.93      | 21.10 | 19.87 |
|           |                | 819.0           | 22.00      | 20.99 | 20.00 |
|           |                | 814.7           | 22.14      | 21.03 | 20.12 |
| 3MHz      | 1 RB high      | 822.5           | 22.76      | 21.92 | 21.33 |
|           |                | 819.0           | 22.93      | 22.07 | 21.50 |
|           |                | 815.5           | 23.07      | 22.14 | 21.46 |
|           | 1 RB low       | 822.5           | 22.68      | 21.95 | 21.08 |
|           |                | 819.0           | 22.87      | 22.08 | 21.14 |
|           |                | 815.5           | 22.94      | 22.12 | 21.18 |
|           | 50% RB mid     | 822.5           | 21.91      | 20.82 | 19.72 |
|           |                | 819.0           | 22.06      | 20.87 | 20.17 |
|           |                | 815.5           | 22.11      | 21.24 | 20.18 |
|           | 100% RB        | 822.5           | 21.95      | 21.16 | 20.07 |
|           |                | 819.0           | 22.05      | 21.27 | 20.18 |
|           |                | 815.5           | 22.19      | 21.24 | 20.33 |
| 5MHz      | 1 RB high      | 821.5           | 22.85      | 21.83 | 21.23 |
|           |                | 819.0           | 22.94      | 21.98 | 21.05 |
|           |                | 816.5           | 23.08      | 21.79 | 20.96 |
|           | 1 RB low       | 821.5           | 22.83      | 21.91 | 20.89 |
|           |                | 819.0           | 22.84      | 21.75 | 21.01 |
|           |                | 816.5           | 23.06      | 21.93 | 20.34 |
|           | 50% RB mid     | 821.5           | 21.91      | 21.03 | 20.04 |
|           |                | 819.0           | 22.00      | 21.01 | 20.25 |
|           |                | 816.5           | 22.16      | 21.12 | 20.34 |
|           | 100% RB        | 821.5           | 21.91      | 20.88 | 20.18 |
|           |                | 819.0           | 22.01      | 21.04 | 20.02 |
|           |                | 816.5           | 22.14      | 21.16 | 20.00 |
| 10MHz     | 1 RB high      | 819.0           | 22.93      | 21.93 | 21.33 |



No. I21N04025-RF-LTE

|  |            |       |       |       |       |
|--|------------|-------|-------|-------|-------|
|  | 1 RB low   | 819.0 | 23.16 | 22.14 | 21.53 |
|  | 50% RB mid | 819.0 | 23.32 | 22.39 | 21.61 |
|  | 100% RB    | 819.0 | 22.90 | 21.97 | 21.04 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 26(824MHz-849MHz)**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 848.3           | 22.99      | 21.84 | 21.55 |
|           |                | 836.5           | 23.13      | 21.92 | 21.52 |
|           |                | 824.7           | 23.23      | 22.13 | 21.53 |
|           | 1 RB low       | 848.3           | 23.02      | 21.82 | 21.49 |
|           |                | 836.5           | 23.07      | 21.94 | 21.17 |
|           |                | 824.7           | 23.19      | 21.83 | 21.59 |
|           | 50% RB mid     | 848.3           | 23.10      | 22.09 | 21.18 |
|           |                | 836.5           | 23.26      | 22.17 | 21.23 |
|           |                | 824.7           | 23.31      | 22.31 | 21.41 |
|           | 100% RB        | 848.3           | 22.05      | 20.79 | 20.10 |
|           |                | 836.5           | 22.13      | 21.04 | 19.91 |
|           |                | 824.7           | 22.25      | 21.22 | 20.29 |
| 3MHz      | 1 RB high      | 847.5           | 23.16      | 21.95 | 21.43 |
|           |                | 836.5           | 23.06      | 22.18 | 21.24 |
|           |                | 825.5           | 23.22      | 22.10 | 21.73 |
|           | 1 RB low       | 847.5           | 23.18      | 22.02 | 20.70 |
|           |                | 836.5           | 23.18      | 21.91 | 21.28 |
|           |                | 825.5           | 23.42      | 22.08 | 21.02 |
|           | 50% RB mid     | 847.5           | 22.03      | 21.07 | 20.13 |
|           |                | 836.5           | 22.18      | 21.18 | 20.35 |
|           |                | 825.5           | 22.25      | 21.22 | 20.35 |
|           | 100% RB        | 847.5           | 22.02      | 21.06 | 20.05 |
|           |                | 836.5           | 22.18      | 20.96 | 20.46 |
|           |                | 825.5           | 22.34      | 21.36 | 20.45 |
| 5MHz      | 1 RB high      | 846.5           | 23.06      | 21.88 | 21.02 |
|           |                | 836.5           | 23.04      | 21.98 | 21.49 |
|           |                | 826.5           | 23.25      | 21.97 | 21.17 |
|           | 1 RB low       | 846.5           | 22.96      | 21.99 | 21.11 |
|           |                | 836.5           | 22.90      | 22.04 | 21.06 |
|           |                | 826.5           | 23.10      | 22.17 | 21.22 |
|           | 50% RB mid     | 846.5           | 21.97      | 21.12 | 19.94 |
|           |                | 836.5           | 22.10      | 21.09 | 20.24 |
|           |                | 826.5           | 22.24      | 21.36 | 20.57 |
|           | 100% RB        | 846.5           | 22.02      | 21.09 | 20.06 |
|           |                | 836.5           | 22.16      | 21.09 | 20.42 |
|           |                | 826.5           | 22.24      | 21.46 | 20.13 |
| 10MHz     | 1 RB high      | 844.0           | 23.15      | 21.99 | 21.31 |

|       |            |       |       |       |       |
|-------|------------|-------|-------|-------|-------|
|       |            | 836.5 | 23.29 | 22.15 | 21.40 |
|       |            | 829.0 | 23.33 | 22.13 | 21.53 |
|       | 1 RB low   | 844.0 | 22.08 | 21.20 | 20.21 |
|       |            | 836.5 | 22.12 | 21.47 | 20.46 |
|       |            | 829.0 | 22.25 | 21.30 | 20.33 |
|       | 50% RB mid | 844.0 | 22.04 | 21.27 | 20.01 |
|       |            | 836.5 | 22.20 | 21.42 | 20.18 |
|       |            | 829.0 | 22.21 | 21.26 | 20.65 |
|       | 100% RB    | 844.0 | 22.03 | 21.07 | 20.20 |
|       |            | 836.5 | 22.11 | 21.15 | 20.29 |
|       |            | 829.0 | 22.25 | 21.31 | 20.42 |
| 15MHz | 1 RB high  | 841.5 | 23.24 | 21.90 | 21.32 |
|       |            | 836.5 | 23.20 | 21.94 | 21.36 |
|       |            | 831.5 | 23.28 | 22.06 | 21.28 |
|       | 1 RB low   | 841.5 | 23.20 | 21.97 | 21.29 |
|       |            | 836.5 | 23.12 | 21.94 | 21.56 |
|       |            | 831.5 | 23.25 | 22.03 | 21.58 |
|       | 50% RB mid | 841.5 | 22.16 | 21.06 | 20.38 |
|       |            | 836.5 | 22.19 | 21.23 | 20.33 |
|       |            | 831.5 | 22.25 | 21.31 | 20.43 |
|       | 100% RB    | 841.5 | 22.05 | 21.07 | 20.33 |
|       |            | 836.5 | 22.15 | 21.18 | 20.22 |
|       |            | 831.5 | 22.27 | 21.22 | 20.32 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$

**LTE band 41**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 5MHz      | 1 RB high      | 2537.50         | 22.87      | 21.37 | 20.23 |
|           |                | 2595.00         | 22.73      | 21.70 | 20.01 |
|           |                | 2652.50         | 22.20      | 21.32 | 19.43 |
|           | 1 RB low       | 2537.50         | 22.70      | 21.23 | 20.23 |
|           |                | 2595.00         | 22.51      | 21.05 | 20.03 |
|           |                | 2652.50         | 22.21      | 21.15 | 19.30 |
|           | 50% RB mid     | 2537.50         | 21.94      | 21.06 | 19.91 |
|           |                | 2595.00         | 21.81      | 20.80 | 19.69 |
|           |                | 2652.50         | 21.35      | 20.31 | 19.25 |
|           | 100% RB        | 2537.50         | 21.94      | 21.18 | 19.72 |
|           |                | 2595.00         | 21.72      | 20.83 | 19.76 |
|           |                | 2652.50         | 21.32      | 20.67 | 19.28 |
| 10MHz     | 1 RB high      | 2540.00         | 22.93      | 20.77 | 20.26 |
|           |                | 2595.00         | 22.71      | 21.79 | 20.09 |
|           |                | 2650.00         | 22.48      | 21.37 | 19.69 |
|           | 1 RB low       | 2540.00         | 22.89      | 20.86 | 20.36 |
|           |                | 2595.00         | 22.75      | 21.74 | 20.15 |
|           |                | 2650.00         | 22.21      | 21.06 | 19.72 |
|           | 50% RB mid     | 2540.00         | 22.05      | 21.20 | 19.86 |
|           |                | 2595.00         | 21.80      | 20.71 | 19.97 |
|           |                | 2650.00         | 21.41      | 20.41 | 19.23 |
|           | 100% RB        | 2540.00         | 21.93      | 20.98 | 19.93 |
|           |                | 2595.00         | 21.77      | 20.80 | 19.79 |
|           |                | 2650.00         | 21.40      | 20.42 | 19.37 |
| 15MHz     | 1 RB high      | 2542.50         | 23.02      | 21.48 | 20.34 |
|           |                | 2595.00         | 22.78      | 21.76 | 20.15 |
|           |                | 2647.50         | 22.50      | 21.25 | 19.61 |
|           | 1 RB low       | 2542.50         | 22.92      | 20.95 | 20.40 |
|           |                | 2595.00         | 22.73      | 21.61 | 20.11 |
|           |                | 2647.50         | 22.38      | 21.24 | 19.78 |
|           | 50% RB mid     | 2542.50         | 22.06      | 20.83 | 19.91 |
|           |                | 2595.00         | 21.79      | 20.69 | 19.69 |
|           |                | 2647.50         | 21.46      | 20.32 | 19.32 |
|           | 100% RB        | 2542.50         | 21.96      | 21.00 | 19.81 |
|           |                | 2595.00         | 21.79      | 20.83 | 19.68 |
|           |                | 2647.50         | 21.61      | 20.36 | 19.41 |



# No. I21N04025-RF-LTE

|       |            |         |       |       |       |
|-------|------------|---------|-------|-------|-------|
| 20MHz | 1 RB high  | 2545.00 | 22.84 | 21.33 | 20.27 |
|       |            | 2595.00 | 22.72 | 21.24 | 20.24 |
|       |            | 2645.00 | 22.33 | 21.45 | 19.98 |
|       | 1 RB low   | 2545.00 | 22.88 | 21.39 | 20.36 |
|       |            | 2595.00 | 22.70 | 21.20 | 20.10 |
|       |            | 2645.00 | 22.32 | 20.35 | 19.71 |
|       | 50% RB mid | 2545.00 | 21.92 | 20.98 | 19.97 |
|       |            | 2595.00 | 21.84 | 20.68 | 19.79 |
|       |            | 2645.00 | 21.47 | 20.29 | 19.35 |
|       | 100% RB    | 2545.00 | 22.02 | 20.96 | 20.00 |
|       |            | 2595.00 | 21.92 | 20.69 | 19.90 |
|       |            | 2645.00 | 21.52 | 20.42 | 19.31 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



**LTE band 66**

| Bandwidth | RB size/offset | Frequency (MHz) | Power(dBm) |       |       |
|-----------|----------------|-----------------|------------|-------|-------|
|           |                |                 | QPSK       | 16QAM | 64QAM |
| 1.4MHz    | 1 RB high      | 1779.3          | 22.50      | 21.57 | 20.59 |
|           |                | 1745.0          | 22.48      | 21.37 | 20.98 |
|           |                | 1710.7          | 22.44      | 21.28 | 20.79 |
|           | 1 RB low       | 1779.3          | 22.48      | 21.16 | 20.87 |
|           |                | 1745.0          | 22.45      | 21.36 | 20.87 |
|           |                | 1710.7          | 22.40      | 21.28 | 20.50 |
|           | 50% RB mid     | 1779.3          | 22.61      | 21.87 | 20.68 |
|           |                | 1745.0          | 22.54      | 21.65 | 20.11 |
|           |                | 1710.7          | 22.48      | 21.45 | 20.57 |
|           | 100% RB        | 1779.3          | 21.63      | 20.63 | 19.65 |
|           |                | 1745.0          | 21.71      | 19.97 | 19.51 |
|           |                | 1710.7          | 21.43      | 20.15 | 19.44 |
| 3MHz      | 1 RB high      | 1778.5          | 22.47      | 21.44 | 20.60 |
|           |                | 1745.0          | 22.44      | 21.57 | 20.88 |
|           |                | 1711.5          | 22.45      | 21.93 | 20.48 |
|           | 1 RB low       | 1778.5          | 22.56      | 21.66 | 20.66 |
|           |                | 1745.0          | 22.68      | 21.58 | 20.70 |
|           |                | 1711.5          | 22.48      | 21.35 | 20.48 |
|           | 50% RB mid     | 1778.5          | 21.77      | 20.54 | 19.66 |
|           |                | 1745.0          | 21.58      | 20.67 | 19.67 |
|           |                | 1711.5          | 21.45      | 20.26 | 19.29 |
|           | 100% RB        | 1778.5          | 21.59      | 20.54 | 19.53 |
|           |                | 1745.0          | 21.51      | 20.46 | 19.54 |
|           |                | 1711.5          | 21.39      | 20.12 | 19.57 |
| 5MHz      | 1 RB high      | 1777.5          | 22.16      | 21.42 | 20.51 |
|           |                | 1745.0          | 22.48      | 21.40 | 20.87 |
|           |                | 1712.5          | 22.15      | 21.46 | 20.25 |
|           | 1 RB low       | 1777.5          | 22.59      | 21.55 | 20.58 |
|           |                | 1745.0          | 22.27      | 21.46 | 20.47 |
|           |                | 1712.5          | 22.20      | 21.29 | 20.34 |
|           | 50% RB mid     | 1777.5          | 21.61      | 20.54 | 19.67 |
|           |                | 1745.0          | 21.55      | 20.31 | 19.72 |
|           |                | 1712.5          | 21.49      | 20.42 | 19.37 |
|           | 100% RB        | 1777.5          | 21.65      | 20.39 | 19.80 |
|           |                | 1745.0          | 21.59      | 20.63 | 19.53 |
|           |                | 1712.5          | 21.46      | 20.49 | 19.19 |
| 10MHz     | 1 RB high      | 1775.0          | 22.35      | 21.35 | 20.56 |

|       |            |        |       |       |       |
|-------|------------|--------|-------|-------|-------|
|       |            | 1745.0 | 22.59 | 21.41 | 20.86 |
|       |            | 1715.0 | 22.33 | 21.29 | 20.29 |
|       |            | 1775.0 | 22.63 | 21.31 | 21.04 |
|       | 1 RB low   | 1745.0 | 22.63 | 21.52 | 20.46 |
|       |            | 1715.0 | 22.46 | 21.27 | 20.32 |
|       |            | 1775.0 | 21.54 | 20.38 | 19.68 |
|       | 50% RB mid | 1745.0 | 21.61 | 20.63 | 19.56 |
|       |            | 1715.0 | 21.46 | 20.37 | 19.39 |
|       |            | 1775.0 | 21.63 | 20.62 | 19.62 |
|       | 100% RB    | 1745.0 | 21.57 | 20.61 | 19.61 |
|       |            | 1715.0 | 21.49 | 20.52 | 19.43 |
|       |            | 1775.0 | 21.53 | 20.46 | 19.66 |
| 15MHz | 1 RB high  | 1772.5 | 22.51 | 21.73 | 20.44 |
|       |            | 1745.0 | 22.32 | 21.31 | 20.86 |
|       |            | 1717.5 | 22.38 | 21.05 | 20.84 |
|       | 1 RB low   | 1772.5 | 22.57 | 21.46 | 20.54 |
|       |            | 1745.0 | 22.56 | 21.40 | 20.61 |
|       |            | 1717.5 | 22.61 | 21.26 | 20.67 |
|       | 50% RB mid | 1772.5 | 21.54 | 20.45 | 19.60 |
|       |            | 1745.0 | 21.58 | 20.42 | 19.66 |
|       |            | 1717.5 | 21.42 | 20.34 | 19.47 |
|       | 100% RB    | 1772.5 | 21.53 | 20.46 | 19.66 |
|       |            | 1745.0 | 21.52 | 20.56 | 19.48 |
|       |            | 1717.5 | 21.37 | 20.30 | 19.28 |
| 20MHz | 1 RB high  | 1770.0 | 22.57 | 21.82 | 20.88 |
|       |            | 1745.0 | 22.45 | 21.34 | 20.57 |
|       |            | 1720.0 | 22.21 | 21.18 | 20.21 |
|       | 1 RB low   | 1770.0 | 22.65 | 21.57 | 20.65 |
|       |            | 1745.0 | 22.47 | 21.34 | 20.61 |
|       |            | 1720.0 | 22.36 | 21.38 | 20.73 |
|       | 50% RB mid | 1770.0 | 21.57 | 20.46 | 19.51 |
|       |            | 1745.0 | 21.54 | 20.50 | 19.59 |
|       |            | 1720.0 | 21.35 | 20.31 | 19.54 |
|       | 100% RB    | 1770.0 | 21.60 | 20.54 | 19.54 |
|       |            | 1745.0 | 21.50 | 20.54 | 19.65 |
|       |            | 1720.0 | 21.36 | 20.29 | 19.67 |

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$

### A.1.3 Radiated

#### A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

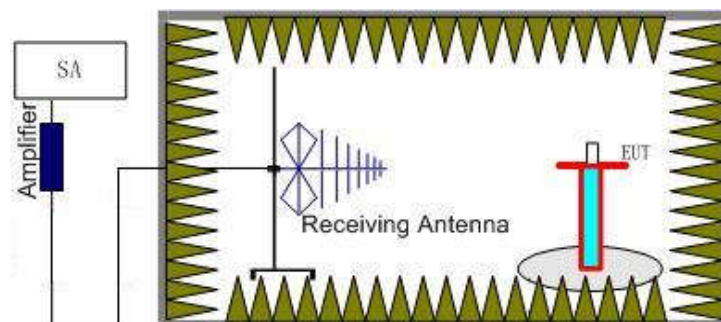
Rule Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

Rule Part 27.50(c) specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

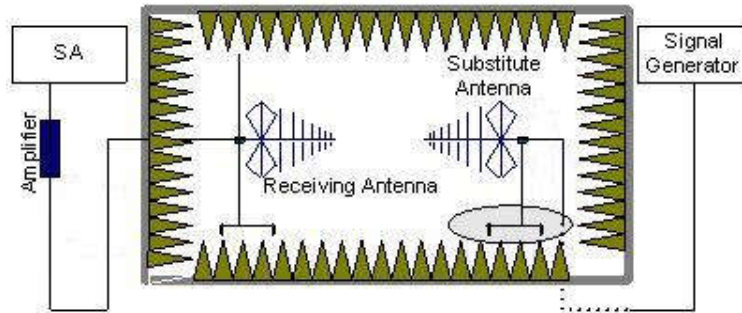
Rule Part 27.50(a)(3) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth." Rule Part 90.635(b) specifies "The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw)."

#### A.1.3.2 Method of Measurement

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna.

The cable loss ( $P_{cl}$ ), the substitution Antenna Gain(dBi) ( $G_a$ ) and the amplifier Gain ( $P_{Ag}$ ) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dB}$ .

### A.1.3.3 Measurement result

#### Upper antenna

#### LTE Band 2- EIRP Part 24. 232(b)

Limits:  $\leq 33\text{dBm}$  (2W)

#### LTE Band 2\_1.4MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1850.70        | -15.92                 | -29.30                                     | 8.10                 | 21.48     | 33.00      | H            |
| 1880.00        | -15.87                 | -29.40                                     | 8.10                 | 21.63     | 33.00      | H            |
| 1909.30        | -15.67                 | -29.30                                     | 8.10                 | 21.73     | 33.00      | H            |

#### LTE Band 2\_3MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| 1851.50        | -15.67                 | -29.30                                     | 8.10                 | 21.73        | 33.00        | H            |
| 1880.00        | -15.59                 | -29.40                                     | 8.10                 | 21.92        | 33.00        | H            |
| <b>1908.50</b> | <b>-15.45</b>          | <b>-29.30</b>                              | <b>8.10</b>          | <b>21.95</b> | <b>33.00</b> | <b>H</b>     |

#### LTE Band 2\_5MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -16.03                 | -29.30                                     | 8.10                 | 21.37     | 33.00      | H            |
| 1880.00        | -15.60                 | -29.40                                     | 8.10                 | 21.90     | 33.00      | H            |
| 1907.50        | -15.88                 | -29.30                                     | 8.10                 | 21.52     | 33.00      | H            |

#### LTE Band 2\_10MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -15.90                 | -29.30                                     | 8.10                 | 21.50     | 33.00      | H            |
| 1880.00        | -15.67                 | -29.40                                     | 8.10                 | 21.83     | 33.00      | H            |
| 1905.00        | -15.49                 | -29.30                                     | 8.10                 | 21.92     | 33.00      | H            |

#### LTE Band 2\_15MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -15.77                 | -29.30                                     | 8.10                 | 21.63     | 33.00      | H            |
| 1880.00        | -15.62                 | -29.40                                     | 8.10                 | 21.88     | 33.00      | H            |
| 1902.50        | -15.60                 | -29.30                                     | 8.10                 | 21.80     | 33.00      | H            |

#### LTE Band 2\_20 MHz\_QPSK

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -15.69                 | -29.30                                     | 8.10                 | 21.71     | 33.00      | H            |
| 1880.00        | -15.90                 | -29.40                                     | 8.10                 | 21.60     | 33.00      | H            |
| 1900.00        | -15.60                 | -29.30                                     | 8.10                 | 21.80     | 33.00      | H            |

**LTE Band 2\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1850.70        | -16.75                 | -29.30                                    | 8.10                 | 20.65     | 33.00      | H            |
| 1880.00        | -17.01                 | -29.40                                    | 8.10                 | 20.50     | 33.00      | H            |
| 1909.30        | -16.79                 | -29.30                                    | 8.10                 | 20.61     | 33.00      | H            |

**LTE Band 2\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1851.50        | -16.81                 | -29.30                                    | 8.10                 | 20.59     | 33.00      | H            |
| 1880.00        | -16.94                 | -29.40                                    | 8.10                 | 20.56     | 33.00      | H            |
| 1908.50        | -16.73                 | -29.30                                    | 8.10                 | 20.67     | 33.00      | H            |

**LTE Band 2\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -16.83                 | -29.30                                    | 8.10                 | 20.57     | 33.00      | H            |
| 1880.00        | -16.97                 | -29.40                                    | 8.10                 | 20.53     | 33.00      | H            |
| 1907.50        | -16.88                 | -29.30                                    | 8.10                 | 20.52     | 33.00      | H            |

**LTE Band 2\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -16.82                 | -29.30                                    | 8.10                 | 20.58     | 33.00      | H            |
| 1880.00        | -17.01                 | -29.40                                    | 8.10                 | 20.49     | 33.00      | H            |
| 1905.00        | -16.93                 | -29.30                                    | 8.10                 | 20.47     | 33.00      | H            |

**LTE Band 2\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -16.87                 | -29.30                                    | 8.10                 | 20.54     | 33.00      | H            |
| 1880.00        | -17.06                 | -29.40                                    | 8.10                 | 20.44     | 33.00      | H            |
| 1902.50        | -16.92                 | -29.30                                    | 8.10                 | 20.48     | 33.00      | H            |

**LTE Band 2\_20 MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -17.02                 | -29.30                                    | 8.10                 | 20.38     | 33.00      | H            |
| 1880.00        | -17.16                 | -29.40                                    | 8.10                 | 20.34     | 33.00      | H            |
| 1900.00        | -17.03                 | -29.30                                    | 8.10                 | 20.38     | 33.00      | H            |

**LTE Band 2\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1850.70        | -17.37                 | -29.30                                     | 8.10                 | 20.03     | 33.00      | H            |
| 1880.00        | -17.68                 | -29.40                                     | 8.10                 | 19.82     | 33.00      | H            |
| 1909.30        | -17.70                 | -29.30                                     | 8.10                 | 19.70     | 33.00      | H            |

**LTE Band 2\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1851.50        | -17.49                 | -29.30                                     | 8.10                 | 19.91     | 33.00      | H            |
| 1880.00        | -18.01                 | -29.40                                     | 8.10                 | 19.49     | 33.00      | H            |
| 1908.50        | -17.91                 | -29.30                                     | 8.10                 | 19.50     | 33.00      | H            |

**LTE Band 2\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -17.50                 | -29.30                                     | 8.10                 | 19.90     | 33.00      | H            |
| 1880.00        | -17.81                 | -29.40                                     | 8.10                 | 19.69     | 33.00      | H            |
| 1907.50        | -17.65                 | -29.30                                     | 8.10                 | 19.75     | 33.00      | H            |

**LTE Band 2\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -17.60                 | -29.30                                     | 8.10                 | 19.80     | 33.00      | H            |
| 1880.00        | -17.94                 | -29.40                                     | 8.10                 | 19.56     | 33.00      | H            |
| 1905.00        | -17.74                 | -29.30                                     | 8.10                 | 19.66     | 33.00      | H            |

**LTE Band 2\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -17.68                 | -29.30                                     | 8.10                 | 19.72     | 33.00      | H            |
| 1880.00        | -17.92                 | -29.40                                     | 8.10                 | 19.58     | 33.00      | H            |
| 1902.50        | -17.75                 | -29.30                                     | 8.10                 | 19.65     | 33.00      | H            |

**LTE Band 2\_20 MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -17.82                 | -29.30                                     | 8.10                 | 19.58     | 33.00      | H            |
| 1880.00        | -18.01                 | -29.40                                     | 8.10                 | 19.49     | 33.00      | H            |
| 1900.00        | -17.88                 | -29.30                                     | 8.10                 | 19.52     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.45dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.30dB)+G<sub>a</sub>(8.10dB)=21.95dBm

**LTE Band 4- EIRP Part 27.50(d)****Limits:** ≤30dBm (1W)**LTE Band 4\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -15.85                 | -29.60                                     | 8.10                 | 21.85     | 30.00      | H            |
| 1732.50        | -15.95                 | -29.60                                     | 8.10                 | 21.75     | 30.00      | H            |
| 1754.30        | -15.67                 | -29.50                                     | 8.10                 | 21.93     | 30.00      | H            |

**LTE Band 4\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| <b>1711.50</b> | <b>-15.74</b>          | <b>-29.60</b>                              | <b>8.10</b>          | <b>21.96</b> | <b>30.00</b> | <b>H</b>     |
| 1732.50        | -16.04                 | -29.60                                     | 8.10                 | 21.67        | 30.00        | H            |
| 1753.50        | -15.71                 | -29.50                                     | 8.10                 | 21.90        | 30.00        | H            |

**LTE Band 4\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -15.88                 | -29.60                                     | 8.10                 | 21.82     | 30.00      | H            |
| 1732.50        | -16.12                 | -29.60                                     | 8.10                 | 21.59     | 30.00      | H            |
| 1752.50        | -15.95                 | -29.50                                     | 8.10                 | 21.65     | 30.00      | H            |

**LTE Band 4\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -15.95                 | -29.60                                     | 8.10                 | 21.75     | 30.00      | H            |
| 1732.50        | -16.11                 | -29.60                                     | 8.10                 | 21.59     | 30.00      | H            |
| 1750.00        | -15.92                 | -29.50                                     | 8.10                 | 21.68     | 30.00      | H            |

**LTE Band 4\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -15.99                 | -29.60                                     | 8.10                 | 21.71     | 30.00      | H            |
| 1732.50        | -16.14                 | -29.60                                     | 8.10                 | 21.56     | 30.00      | H            |
| 1747.50        | -15.96                 | -29.50                                     | 8.10                 | 21.64     | 30.00      | H            |

**LTE Band 4\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -16.12                 | -29.60                                     | 8.10                 | 21.58     | 30.00      | H            |
| 1732.50        | -16.24                 | -29.60                                     | 8.10                 | 21.46     | 30.00      | H            |
| 1745.00        | -16.03                 | -29.50                                     | 8.10                 | 21.57     | 30.00      | H            |

**LTE Band 4\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -17.21                 | -29.60                                     | 8.10                 | 20.50     | 30.00      | H            |
| 1732.50        | -17.14                 | -29.60                                     | 8.10                 | 20.56     | 30.00      | H            |
| 1754.30        | -17.14                 | -29.50                                     | 8.10                 | 20.46     | 30.00      | H            |

**LTE Band 4\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -17.11                 | -29.60                                     | 8.10                 | 20.59     | 30.00      | H            |
| 1732.50        | -17.07                 | -29.60                                     | 8.10                 | 20.63     | 30.00      | H            |
| 1753.50        | -17.14                 | -29.50                                     | 8.10                 | 20.46     | 30.00      | H            |

**LTE Band 4\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -17.14                 | -29.60                                     | 8.10                 | 20.57     | 30.00      | H            |
| 1732.50        | -17.23                 | -29.60                                     | 8.10                 | 20.47     | 30.00      | H            |
| 1752.50        | -17.11                 | -29.50                                     | 8.10                 | 20.49     | 30.00      | H            |

**LTE Band 4\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -17.25                 | -29.60                                     | 8.10                 | 20.45     | 30.00      | H            |
| 1732.50        | -17.11                 | -29.60                                     | 8.10                 | 20.59     | 30.00      | H            |
| 1750.00        | -17.14                 | -29.50                                     | 8.10                 | 20.46     | 30.00      | H            |

**LTE Band 4\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -17.14                 | -29.60                                     | 8.10                 | 20.56     | 30.00      | H            |
| 1732.50        | -17.06                 | -29.60                                     | 8.10                 | 20.64     | 30.00      | H            |
| 1747.50        | -17.04                 | -29.50                                     | 8.10                 | 20.56     | 30.00      | H            |

**LTE Band 4\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -17.32                 | -29.60                                     | 8.10                 | 20.38     | 30.00      | H            |
| 1732.50        | -17.23                 | -29.60                                     | 8.10                 | 20.47     | 30.00      | H            |
| 1745.00        | -17.21                 | -29.50                                     | 8.10                 | 20.40     | 30.00      | H            |

**LTE Band 4\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -18.04                 | -29.60                                     | 8.10                 | 19.66     | 30.00      | H            |
| 1732.50        | -17.68                 | -29.60                                     | 8.10                 | 20.03     | 30.00      | H            |
| 1754.30        | -17.78                 | -29.50                                     | 8.10                 | 19.82     | 30.00      | H            |

**LTE Band 4\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -17.90                 | -29.60                                     | 8.10                 | 19.81     | 30.00      | H            |
| 1732.50        | -17.79                 | -29.60                                     | 8.10                 | 19.91     | 30.00      | H            |
| 1753.50        | -17.74                 | -29.50                                     | 8.10                 | 19.86     | 30.00      | H            |

**LTE Band 4\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -17.91                 | -29.60                                     | 8.10                 | 19.80     | 30.00      | H            |
| 1732.50        | -17.98                 | -29.60                                     | 8.10                 | 19.72     | 30.00      | H            |
| 1752.50        | -17.86                 | -29.50                                     | 8.10                 | 19.74     | 30.00      | H            |

**LTE Band 4\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -18.01                 | -29.60                                     | 8.10                 | 19.69     | 30.00      | H            |
| 1732.50        | -17.88                 | -29.60                                     | 8.10                 | 19.82     | 30.00      | H            |
| 1750.00        | -17.88                 | -29.50                                     | 8.10                 | 19.72     | 30.00      | H            |

**LTE Band 4\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -18.10                 | -29.60                                     | 8.10                 | 19.60     | 30.00      | H            |
| 1732.50        | -17.90                 | -29.60                                     | 8.10                 | 19.80     | 30.00      | H            |
| 1747.50        | -17.96                 | -29.50                                     | 8.10                 | 19.64     | 30.00      | H            |

**LTE Band 4\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -18.07                 | -29.60                                     | 8.10                 | 19.63     | 30.00      | H            |
| 1732.50        | -17.82                 | -29.60                                     | 8.10                 | 19.88     | 30.00      | H            |
| 1745.00        | -17.98                 | -29.50                                     | 8.10                 | 19.62     | 30.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.74dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.60dB)+G<sub>a</sub>(8.10dB) =21.96dBm

**LTE Band 7- EIRP Part 27.50(h)(2)****Limits:** ≤33 dBm (2W)**LTE Band 7\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2502.50        | -17.91                 | -28.70                                     | 10.70                            | 21.49     | 33.00      | H            |
| 2535.00        | -18.01                 | -28.60                                     | 10.70                            | 21.29     | 33.00      | H            |
| 2567.50        | -17.86                 | -28.60                                     | 10.70                            | 21.44     | 33.00      | H            |

**LTE Band 7\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -17.94                 | -28.70                                     | 10.70                            | 21.46     | 33.00      | H            |
| 2535.00        | -17.94                 | -28.60                                     | 10.70                            | 21.36     | 33.00      | H            |
| 2565.00        | -17.85                 | -28.60                                     | 10.70                            | 21.45     | 33.00      | H            |

**LTE Band 7\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|---------------------------------|-----------|------------|--------------|
| 2507.50        | -17.87                 | -28.70                                     | 10.70                           | 21.53     | 33.00      | H            |
| 2535.00        | -17.72                 | -28.60                                     | 10.70                           | 21.58     | 33.00      | H            |
| 2562.50        | -17.85                 | -28.60                                     | 10.70                           | 21.45     | 33.00      | H            |

**LTE Band 7\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|--------------|--------------|--------------|
| 2510.00        | -17.93                 | -28.70                                     | 10.70                            | 21.47        | 33.00        | H            |
| <b>2535.00</b> | <b>-17.71</b>          | <b>-28.60</b>                              | <b>10.70</b>                     | <b>21.59</b> | <b>33.00</b> | <b>H</b>     |
| 2560.00        | -17.92                 | -28.60                                     | 10.70                            | 21.38        | 33.00        | H            |

**LTE Band 7\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2502.50        | -18.84                 | -28.70                                     | 10.70                            | 20.57     | 33.00      | H            |
| 2535.00        | -18.70                 | -28.60                                     | 10.70                            | 20.60     | 33.00      | H            |
| 2567.50        | -18.83                 | -28.60                                     | 10.70                            | 20.47     | 33.00      | H            |

**LTE Band 7\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -18.88                 | -28.70                                     | 10.70                            | 20.53     | 33.00      | H            |
| 2535.00        | -18.81                 | -28.60                                     | 10.70                            | 20.49     | 33.00      | H            |
| 2565.00        | -18.74                 | -28.60                                     | 10.70                            | 20.56     | 33.00      | H            |

**LTE Band 7\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2507.50        | -18.82                 | -28.70                                     | 10.70                            | 20.58     | 33.00      | H            |
| 2535.00        | -18.73                 | -28.60                                     | 10.70                            | 20.57     | 33.00      | H            |
| 2562.50        | -18.83                 | -28.60                                     | 10.70                            | 20.47     | 33.00      | H            |

**LTE Band 7\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2510.00        | -18.97                 | -28.70                                     | 10.70                            | 20.43     | 33.00      | H            |
| 2535.00        | -18.92                 | -28.60                                     | 10.70                            | 20.38     | 33.00      | H            |
| 2560.00        | -18.94                 | -28.60                                     | 10.70                            | 20.36     | 33.00      | H            |

**LTE Band 7\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2502.50        | -19.49                 | -28.70                                     | 10.70                            | 19.91     | 33.00      | H            |
| 2535.00        | -19.46                 | -28.60                                     | 10.70                            | 19.84     | 33.00      | H            |
| 2567.50        | -19.70                 | -28.60                                     | 10.70                            | 19.60     | 33.00      | H            |

**LTE Band 7\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -19.80                 | -28.70                                     | 10.70                            | 19.60     | 33.00      | H            |
| 2535.00        | -19.60                 | -28.60                                     | 10.70                            | 19.70     | 33.00      | H            |
| 2565.00        | -19.81                 | -28.60                                     | 10.70                            | 19.50     | 33.00      | H            |

**LTE Band 7\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2507.50        | -19.91                 | -28.70                                     | 10.70                            | 19.49     | 33.00      | H            |
| 2535.00        | -19.69                 | -28.60                                     | 10.70                            | 19.61     | 33.00      | H            |
| 2562.50        | -19.71                 | -28.60                                     | 10.70                            | 19.59     | 33.00      | H            |

**LTE Band 7\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2510.00        | -19.72                 | -28.70                                     | 10.70                            | 19.68     | 33.00      | H            |
| 2535.00        | -19.65                 | -28.60                                     | 10.70                            | 19.65     | 33.00      | H            |
| 2560.00        | -19.80                 | -28.60                                     | 10.70                            | 19.50     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-17.71dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-28.60dB)+G<sub>a</sub>(10.70dB) =21.59dBm

**LTE Band 12 - ERP Part 27.50(c)(10)**
**Limits:** ≤34.77dBm (3W)

**LTE Band 12\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|--------------|--------------|--------------|
| 699.70         | -10.38                 | -34.80                                     | -0.93                | 2.15            | 21.34        | 34.77        | V            |
| <b>707.50</b>  | <b>-10.23</b>          | <b>-34.70</b>                              | <b>-0.91</b>         | <b>2.15</b>     | <b>21.41</b> | <b>34.77</b> | <b>V</b>     |
| 715.30         | -10.66                 | -34.70                                     | -0.68                | 2.15            | 21.20        | 34.77        | V            |

**LTE Band 12\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 700.50         | -10.36                 | -34.80                                     | -0.97                | 2.15            | 21.32    | 34.77      | V            |
| 707.50         | -10.25                 | -34.70                                     | -0.91                | 2.15            | 21.40    | 34.77      | V            |
| 714.50         | -10.60                 | -34.70                                     | -0.64                | 2.15            | 21.31    | 34.77      | V            |

**LTE Band 12\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 701.50         | -10.47                 | -34.80                                     | -0.97                | 2.15            | 21.21    | 34.77      | V            |
| 707.50         | -10.32                 | -34.70                                     | -0.91                | 2.15            | 21.32    | 34.77      | V            |
| 713.50         | -10.61                 | -34.70                                     | -0.64                | 2.15            | 21.30    | 34.77      | V            |

**LTE Band 12\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 704.00         | -10.43                 | -34.80                                     | -0.97                | 2.15            | 21.26    | 34.77      | V            |
| 707.50         | -10.51                 | -34.70                                     | -0.91                | 2.15            | 21.13    | 34.77      | V            |
| 711.00         | -10.63                 | -34.70                                     | -0.64                | 2.15            | 21.28    | 34.77      | V            |

**LTE Band 12\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 699.70         | -10.79                 | -34.80                                     | -0.93                | 2.15            | 20.93    | 34.77      | V            |
| 707.50         | -10.77                 | -34.70                                     | -0.91                | 2.15            | 20.87    | 34.77      | V            |
| 715.30         | -11.22                 | -34.70                                     | -0.68                | 2.15            | 20.65    | 34.77      | V            |

**LTE Band 12\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 700.50         | -10.84                 | -34.80                                     | -0.97                | 2.15            | 20.85    | 34.77      | V            |
| 707.50         | -10.91                 | -34.70                                     | -0.91                | 2.15            | 20.73    | 34.77      | V            |
| 714.50         | -11.27                 | -34.70                                     | -0.64                | 2.15            | 20.63    | 34.77      | V            |

**LTE Band 12\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 701.50         | -11.13                 | -34.80                                     | -0.97                | 2.15            | 20.55    | 34.77      | V            |
| 707.50         | -10.99                 | -34.70                                     | -0.91                | 2.15            | 20.65    | 34.77      | V            |
| 713.50         | -11.33                 | -34.70                                     | -0.64                | 2.15            | 20.57    | 34.77      | V            |

**LTE Band 12\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 704.00         | -11.04                 | -34.80                                     | -0.97                | 2.15            | 20.64    | 34.77      | V            |
| 707.50         | -11.19                 | -34.70                                     | -0.91                | 2.15            | 20.46    | 34.77      | V            |
| 711.00         | -11.34                 | -34.70                                     | -0.64                | 2.15            | 20.57    | 34.77      | V            |



**LTE Band 12\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 699.70         | -11.41                 | -34.80                                     | -0.93                | 2.15            | 20.31    | 34.77      | V            |
| 707.50         | -11.37                 | -34.70                                     | -0.91                | 2.15            | 20.27    | 34.77      | V            |
| 715.30         | -11.53                 | -34.70                                     | -0.68                | 2.15            | 20.34    | 34.77      | V            |

**LTE Band 12\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 700.50         | -11.42                 | -34.80                                     | -0.97                | 2.15            | 20.26    | 34.77      | V            |
| 707.50         | -11.32                 | -34.70                                     | -0.91                | 2.15            | 20.32    | 34.77      | V            |
| 714.50         | -11.47                 | -34.70                                     | -0.64                | 2.15            | 20.43    | 34.77      | V            |

**LTE Band 12\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 701.50         | -11.34                 | -34.80                                     | -0.97                | 2.15            | 20.34    | 34.77      | V            |
| 707.50         | -11.41                 | -34.70                                     | -0.91                | 2.15            | 20.23    | 34.77      | V            |
| 713.50         | -11.57                 | -34.70                                     | -0.64                | 2.15            | 20.33    | 34.77      | V            |

**LTE Band 12\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 704.00         | -11.47                 | -34.80                                     | -0.97                | 2.15            | 20.22    | 34.77      | V            |
| 707.50         | -11.31                 | -34.70                                     | -0.91                | 2.15            | 20.33    | 34.77      | V            |
| 711.00         | -11.51                 | -34.70                                     | -0.64                | 2.15            | 20.39    | 34.77      | V            |

Peak ERP (dBm)=P<sub>Mea</sub>(-10.23Bm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-34.70dB)+G<sub>a</sub>(-0.91dB) -2.15dB =21.41dBm

**LTE band 26(814MHz-824MHz)- ERP Part 90.635(b)****Limits:** ≤50.00dBm (100W)**LTE band 26(814MHz-824MHz)\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 814.70         | -9.53                  | -33.70                                     | -0.80                   | 2.15               | 21.22    | 50.00      | H            |
| 819.00         | -9.57                  | -33.60                                     | -0.75                   | 2.15               | 21.13    | 50.00      | H            |
| 823.30         | -9.42                  | -33.60                                     | -0.79                   | 2.15               | 21.23    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 815.50         | -9.54                  | -33.70                                     | -0.80                   | 2.15               | 21.21    | 50.00      | H            |
| 819.00         | -9.58                  | -33.60                                     | -0.75                   | 2.15               | 21.13    | 50.00      | H            |
| 822.50         | -9.42                  | -33.60                                     | -0.79                   | 2.15               | 21.23    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|--------------|--------------|--------------|
| <b>816.50</b>  | <b>-9.41</b>           | <b>-33.70</b>                              | <b>-0.80</b>            | <b>2.15</b>        | <b>21.34</b> | <b>50.00</b> | <b>H</b>     |
| 819.00         | -9.38                  | -33.60                                     | -0.75                   | 2.15               | 21.32        | 50.00        | H            |
| 821.50         | -9.45                  | -33.60                                     | -0.79                   | 2.15               | 21.21        | 50.00        | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 819.00         | -9.63                  | -33.60                                     | -0.80                   | 2.15               | 21.02    | 50.00      | H            |
| 819.00         | -9.42                  | -33.60                                     | -0.75                   | 2.15               | 21.29    | 50.00      | H            |
| 819.00         | -9.50                  | -33.60                                     | -0.79                   | 2.15               | 21.16    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 814.70         | -10.09                 | -33.70                                     | -0.80                   | 2.15               | 20.66    | 50.00      | H            |
| 819.00         | -10.16                 | -33.60                                     | -0.75                   | 2.15               | 20.54    | 50.00      | H            |
| 823.30         | -10.12                 | -33.60                                     | -0.79                   | 2.15               | 20.53    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 815.50         | -10.41                 | -33.70                                     | -0.80                   | 2.15               | 20.34    | 50.00      | H            |
| 819.00         | -10.25                 | -33.60                                     | -0.75                   | 2.15               | 20.46    | 50.00      | H            |
| 822.50         | -9.98                  | -33.60                                     | -0.79                   | 2.15               | 20.68    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 816.50         | -10.18                 | -33.70                                     | -0.80                   | 2.15               | 20.57    | 50.00      | H            |
| 819.00         | -10.24                 | -33.60                                     | -0.75                   | 2.15               | 20.47    | 50.00      | H            |
| 821.50         | -10.12                 | -33.60                                     | -0.79                   | 2.15               | 20.53    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 819.00         | -10.30                 | -33.60                                     | -0.80                   | 2.15               | 20.35    | 50.00      | H            |
| 819.00         | -10.24                 | -33.60                                     | -0.75                   | 2.15               | 20.47    | 50.00      | H            |
| 819.00         | -10.31                 | -33.60                                     | -0.79                   | 2.15               | 20.35    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 814.70         | -10.60                 | -33.70                                     | -0.80                | 2.15            | 20.15    | 50.00      | H            |
| 819.00         | -10.45                 | -33.60                                     | -0.75                | 2.15            | 20.25    | 50.00      | H            |
| 823.30         | -10.51                 | -33.60                                     | -0.79                | 2.15            | 20.15    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 815.50         | -10.54                 | -33.70                                     | -0.80                | 2.15            | 20.21    | 50.00      | H            |
| 819.00         | -10.36                 | -33.60                                     | -0.75                | 2.15            | 20.35    | 50.00      | H            |
| 822.50         | -10.52                 | -33.60                                     | -0.79                | 2.15            | 20.13    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 816.50         | -10.53                 | -33.70                                     | -0.80                | 2.15            | 20.22    | 50.00      | H            |
| 819.00         | -10.46                 | -33.60                                     | -0.75                | 2.15            | 20.24    | 50.00      | H            |
| 821.50         | -10.46                 | -33.60                                     | -0.79                | 2.15            | 20.20    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 819.00         | -10.45                 | -33.60                                     | -0.80                | 2.15            | 20.20    | 50.00      | H            |
| 819.00         | -10.57                 | -33.60                                     | -0.75                | 2.15            | 20.13    | 50.00      | H            |
| 819.00         | -10.45                 | -33.60                                     | -0.79                | 2.15            | 20.21    | 50.00      | H            |

Peak ERP (dBm)=P<sub>Mea</sub>(-9.41dBm)-(P<sub>ci</sub>+P<sub>Ag</sub>)(-33.70dB)+G<sub>a</sub>(-0.80dB) -2.15 =21.34dBm

**LTE band 26(824MHz-849MHz)- ERP Part 22.913(a)**
**Limits:** ≤38.45dBm (7W)

**LTE band 26(824MHz-849MHz)\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 824.70         | -9.62                  | -33.60                                     | -0.79                | 2.15            | 21.03    | 38.45      | H            |
| 836.50         | -9.29                  | -33.50                                     | -0.74                | 2.15            | 21.32    | 38.45      | H            |
| 848.30         | -9.41                  | -33.50                                     | -0.73                | 2.15            | 21.21    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -9.42                  | -33.60                                     | -0.79                | 2.15            | 21.23    | 38.45      | H            |
| 836.50         | -9.29                  | -33.50                                     | -0.74                | 2.15            | 21.33    | 38.45      | H            |
| 847.50         | -9.38                  | -33.50                                     | -0.73                | 2.15            | 21.24    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|--------------|--------------|--------------|
| 826.50         | -9.42                  | -33.60                                     | -0.79                | 2.15            | 21.23        | 38.45        | H            |
| <b>836.50</b>  | <b>-9.25</b>           | <b>-33.50</b>                              | <b>-0.74</b>         | <b>2.15</b>     | <b>21.37</b> | <b>38.45</b> | <b>H</b>     |
| 846.50         | -9.30                  | -33.50                                     | -0.73                | 2.15            | 21.32        | 38.45        | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -9.52                  | -33.60                                     | -0.79                | 2.15            | 21.13    | 38.45      | H            |
| 836.50         | -9.41                  | -33.50                                     | -0.74                | 2.15            | 21.21    | 38.45      | H            |
| 844.00         | -9.47                  | -33.50                                     | -0.73                | 2.15            | 21.15    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -9.44                  | -33.60                                     | -0.79                | 2.15            | 21.21    | 38.45      | H            |
| 836.50         | -9.30                  | -33.50                                     | -0.74                | 2.15            | 21.32    | 38.45      | H            |
| 841.50         | -9.48                  | -33.50                                     | -0.73                | 2.15            | 21.13    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 824.70         | -9.87                  | -33.60                                     | -0.79                | 2.15            | 20.78    | 38.45      | H            |
| 836.50         | -9.87                  | -33.50                                     | -0.74                | 2.15            | 20.74    | 38.45      | H            |
| 848.30         | -10.01                 | -33.50                                     | -0.73                | 2.15            | 20.60    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -10.09                 | -33.60                                     | -0.79                | 2.15            | 20.57    | 38.45      | H            |
| 836.50         | -9.97                  | -33.50                                     | -0.74                | 2.15            | 20.65    | 38.45      | H            |
| 847.50         | -10.15                 | -33.50                                     | -0.73                | 2.15            | 20.47    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 826.50         | -9.98                  | -33.60                                     | -0.79                | 2.15            | 20.67    | 38.45      | H            |
| 836.50         | -10.05                 | -33.50                                     | -0.74                | 2.15            | 20.56    | 38.45      | H            |
| 846.50         | -10.01                 | -33.50                                     | -0.73                | 2.15            | 20.60    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -10.08                 | -33.60                                     | -0.79                | 2.15            | 20.58    | 38.45      | H            |
| 836.50         | -10.18                 | -33.50                                     | -0.74                | 2.15            | 20.44    | 38.45      | H            |
| 844.00         | -10.17                 | -33.50                                     | -0.73                | 2.15            | 20.45    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -10.32                 | -33.60                                     | -0.79                | 2.15            | 20.34    | 38.45      | H            |
| 836.50         | -10.21                 | -33.50                                     | -0.74                | 2.15            | 20.40    | 38.45      | H            |
| 841.50         | -10.18                 | -33.50                                     | -0.73                | 2.15            | 20.43    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 824.70         | -10.53                 | -33.60                                     | -0.79                | 2.15            | 20.12    | 38.45      | H            |
| 836.50         | -10.40                 | -33.50                                     | -0.74                | 2.15            | 20.21    | 38.45      | H            |
| 848.30         | -10.42                 | -33.50                                     | -0.73                | 2.15            | 20.20    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -10.42                 | -33.60                                     | -0.79                | 2.15            | 20.23    | 38.45      | H            |
| 836.50         | -10.29                 | -33.50                                     | -0.74                | 2.15            | 20.32    | 38.45      | H            |
| 847.50         | -10.54                 | -33.50                                     | -0.73                | 2.15            | 20.07    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 826.50         | -10.50                 | -33.60                                     | -0.79                | 2.15            | 20.16    | 38.45      | H            |
| 836.50         | -10.37                 | -33.50                                     | -0.74                | 2.15            | 20.25    | 38.45      | H            |
| 846.50         | -10.41                 | -33.50                                     | -0.73                | 2.15            | 20.21    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -10.53                 | -33.60                                     | -0.79                | 2.15            | 20.12    | 38.45      | H            |
| 836.50         | -10.56                 | -33.50                                     | -0.74                | 2.15            | 20.06    | 38.45      | H            |
| 844.00         | -10.55                 | -33.50                                     | -0.73                | 2.15            | 20.07    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -10.51                 | -33.60                                     | -0.79                | 2.15            | 20.15    | 38.45      | H            |
| 836.50         | -10.57                 | -33.50                                     | -0.74                | 2.15            | 20.04    | 38.45      | H            |
| 841.50         | -10.52                 | -33.50                                     | -0.73                | 2.15            | 20.10    | 38.45      | H            |

Peak ERP (dBm)=P<sub>Mea</sub>(-9.25dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-33.50dB)+G<sub>a</sub>(-0.74dB) -2.15=21.37dBm

**LTE Band 41 - EIRP Part 27.50(h)(2)****Limits:** ≤33dBm (2W)**LTE Band 41\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| <b>2537.50</b> | <b>-17.57</b>          | <b>-28.70</b>                              | <b>10.70</b>         | <b>21.83</b> | <b>33.00</b> | <b>H</b>     |
| 2595.00        | -17.74                 | -28.60                                     | 10.70                | 21.56        | 33.00        | H            |
| 2652.50        | -17.55                 | -28.50                                     | 10.70                | 21.65        | 33.00        | H            |

**LTE Band 41\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2540.00        | -17.71                 | -28.70                                     | 10.70                | 21.69     | 33.00      | H            |
| 2595.00        | -17.67                 | -28.60                                     | 10.70                | 21.63     | 33.00      | H            |
| 2650.00        | -17.62                 | -28.50                                     | 10.70                | 21.58     | 33.00      | H            |

**LTE Band 41\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2542.50        | -17.91                 | -28.70                                     | 10.70                | 21.49     | 33.00      | H            |
| 2595.00        | -17.85                 | -28.60                                     | 10.70                | 21.45     | 33.00      | H            |
| 2647.50        | -17.59                 | -28.50                                     | 10.70                | 21.61     | 33.00      | H            |

**LTE Band 41\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2545.00        | -17.91                 | -28.70                                     | 10.70                | 21.49     | 33.00      | H            |
| 2595.00        | -17.73                 | -28.60                                     | 10.70                | 21.57     | 33.00      | H            |
| 2645.00        | -17.82                 | -28.50                                     | 10.70                | 21.38     | 33.00      | H            |

**LTE Band 41\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2537.50        | -18.91                 | -28.70                                    | 10.70                | 20.50     | 33.00      | H            |
| 2595.00        | -18.72                 | -28.60                                    | 10.70                | 20.59     | 33.00      | H            |
| 2652.50        | -18.74                 | -28.50                                    | 10.70                | 20.46     | 33.00      | H            |

**LTE Band 41\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2540.00        | -18.94                 | -28.70                                    | 10.70                | 20.46     | 33.00      | H            |
| 2595.00        | -18.81                 | -28.60                                    | 10.70                | 20.49     | 33.00      | H            |
| 2650.00        | -18.82                 | -28.50                                    | 10.70                | 20.38     | 33.00      | H            |

**LTE Band 41\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2542.50        | -19.04                 | -28.70                                    | 10.70                | 20.36     | 33.00      | H            |
| 2595.00        | -18.92                 | -28.60                                    | 10.70                | 20.38     | 33.00      | H            |
| 2647.50        | -18.82                 | -28.50                                    | 10.70                | 20.38     | 33.00      | H            |

**LTE Band 41\_20 MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2545.00        | -19.05                 | -28.70                                    | 10.70                | 20.35     | 33.00      | H            |
| 2595.00        | -19.04                 | -28.60                                    | 10.70                | 20.26     | 33.00      | H            |
| 2645.00        | -18.95                 | -28.50                                    | 10.70                | 20.25     | 33.00      | H            |

**LTE Band 41\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2537.50        | -19.91                 | -28.70                                     | 10.70                            | 19.49     | 33.00      | H            |
| 2595.00        | -19.72                 | -28.60                                     | 10.70                            | 19.58     | 33.00      | H            |
| 2652.50        | -19.74                 | -28.50                                     | 10.70                            | 19.46     | 33.00      | H            |

**LTE Band 41\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2540.00        | -19.83                 | -28.70                                     | 10.70                            | 19.57     | 33.00      | H            |
| 2595.00        | -19.92                 | -28.60                                     | 10.70                            | 19.38     | 33.00      | H            |
| 2650.00        | -19.72                 | -28.50                                     | 10.70                            | 19.48     | 33.00      | H            |

**LTE Band 41\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2542.50        | -20.02                 | -28.70                                     | 10.70                            | 19.38     | 33.00      | H            |
| 2595.00        | -19.82                 | -28.60                                     | 10.70                            | 19.48     | 33.00      | H            |
| 2647.50        | -19.84                 | -28.50                                     | 10.70                            | 19.36     | 33.00      | H            |

**LTE Band 41\_20 MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2545.00        | -19.91                 | -28.70                                     | 10.70                            | 19.50     | 33.00      | H            |
| 2595.00        | -19.85                 | -28.60                                     | 10.70                            | 19.45     | 33.00      | H            |
| 2645.00        | -19.84                 | -28.50                                     | 10.70                            | 19.36     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-17.57dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>) (-28.70dB)+G<sub>a</sub>(10.70dB) =21.83dBm

**LTE Band 66- EIRP Part 27.50(d)****Limits:** ≤30dBm (1W)**LTE Band 66\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| 1710.70        | -15.71                 | -29.60                                     | 8.10                 | 22.00        | 30.00        | H            |
| <b>1745.00</b> | <b>-15.58</b>          | <b>-29.50</b>                              | <b>8.10</b>          | <b>22.03</b> | <b>30.00</b> | <b>H</b>     |
| 1779.30        | -15.72                 | -29.50                                     | 8.10                 | 21.88        | 30.00        | H            |

**LTE Band 66\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -15.81                 | -29.60                                     | 8.10                 | 21.90     | 30.00      | H            |
| 1745.00        | -15.79                 | -29.50                                     | 8.10                 | 21.81     | 30.00      | H            |
| 1778.50        | -15.84                 | -29.50                                     | 8.10                 | 21.76     | 30.00      | H            |

**LTE Band 66\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -15.98                 | -29.60                                     | 8.10                 | 21.72     | 30.00      | H            |
| 1745.00        | -15.80                 | -29.50                                     | 8.10                 | 21.80     | 30.00      | H            |
| 1777.50        | -15.99                 | -29.50                                     | 8.10                 | 21.61     | 30.00      | H            |

**LTE Band 66\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -15.99                 | -29.60                                     | 8.10                 | 21.71     | 30.00      | H            |
| 1745.00        | -15.99                 | -29.50                                     | 8.10                 | 21.61     | 30.00      | H            |
| 1775.00        | -15.79                 | -29.50                                     | 8.10                 | 21.81     | 30.00      | H            |

**LTE Band 66\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -16.12                 | -29.60                                     | 8.10                 | 21.59     | 30.00      | H            |
| 1745.00        | -16.11                 | -29.50                                     | 8.10                 | 21.50     | 30.00      | H            |
| 1772.53        | -15.92                 | -29.50                                     | 8.10                 | 21.68     | 30.00      | H            |

**LTE Band 66\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -16.14                 | -29.60                                     | 8.10                 | 21.56     | 30.00      | H            |
| 1745.00        | -16.11                 | -29.50                                     | 8.10                 | 21.49     | 30.00      | H            |
| 1770.00        | -16.11                 | -29.50                                     | 8.10                 | 21.49     | 30.00      | H            |

**LTE Band 66\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -17.12                 | -29.60                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1745.00        | -16.89                 | -29.50                                     | 8.10                 | 20.71     | 30.00      | H            |
| 1779.30        | -17.10                 | -29.50                                     | 8.10                 | 20.50     | 30.00      | H            |

**LTE Band 66\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -17.21                 | -29.60                                     | 8.10                 | 20.49     | 30.00      | H            |
| 1745.00        | -17.02                 | -29.50                                     | 8.10                 | 20.59     | 30.00      | H            |
| 1778.50        | -17.00                 | -29.50                                     | 8.10                 | 20.60     | 30.00      | H            |

**LTE Band 66\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -17.14                 | -29.60                                     | 8.10                 | 20.56     | 30.00      | H            |
| 1745.00        | -16.91                 | -29.50                                     | 8.10                 | 20.69     | 30.00      | H            |
| 1777.50        | -17.13                 | -29.50                                     | 8.10                 | 20.47     | 30.00      | H            |

**LTE Band 66\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -17.23                 | -29.60                                     | 8.10                 | 20.47     | 30.00      | H            |
| 1745.00        | -16.97                 | -29.50                                     | 8.10                 | 20.63     | 30.00      | H            |
| 1775.00        | -17.02                 | -29.50                                     | 8.10                 | 20.58     | 30.00      | H            |

**LTE Band 66\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -17.12                 | -29.60                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1745.00        | -17.22                 | -29.50                                     | 8.10                 | 20.38     | 30.00      | H            |
| 1772.53        | -17.14                 | -29.50                                     | 8.10                 | 20.46     | 30.00      | H            |

**LTE Band 66\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -17.23                 | -29.60                                     | 8.10                 | 20.47     | 30.00      | H            |
| 1745.00        | -17.02                 | -29.50                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1770.00        | -17.25                 | -29.50                                     | 8.10                 | 20.35     | 30.00      | H            |

**LTE Band 66\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -18.21                 | -29.60                                     | 8.10                 | 19.49     | 30.00      | H            |
| 1745.00        | -17.91                 | -29.50                                     | 8.10                 | 19.69     | 30.00      | H            |
| 1779.30        | -17.94                 | -29.50                                     | 8.10                 | 19.66     | 30.00      | H            |

**LTE Band 66\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -18.23                 | -29.60                                     | 8.10                 | 19.47     | 30.00      | H            |
| 1745.00        | -18.11                 | -29.50                                     | 8.10                 | 19.50     | 30.00      | H            |
| 1778.50        | -18.02                 | -29.50                                     | 8.10                 | 19.58     | 30.00      | H            |

**LTE Band 66\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -18.19                 | -29.60                                     | 8.10                 | 19.52     | 30.00      | H            |
| 1745.00        | -18.00                 | -29.50                                     | 8.10                 | 19.60     | 30.00      | H            |
| 1777.50        | -18.11                 | -29.50                                     | 8.10                 | 19.49     | 30.00      | H            |

**LTE Band 66\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -18.21                 | -29.60                                     | 8.10                 | 19.49     | 30.00      | H            |
| 1745.00        | -18.22                 | -29.50                                     | 8.10                 | 19.38     | 30.00      | H            |
| 1775.00        | -18.12                 | -29.50                                     | 8.10                 | 19.48     | 30.00      | H            |

**LTE Band 66\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -18.21                 | -29.60                                     | 8.10                 | 19.49     | 30.00      | H            |
| 1745.00        | -18.38                 | -29.50                                     | 8.10                 | 19.22     | 30.00      | H            |
| 1772.53        | -18.01                 | -29.50                                     | 8.10                 | 19.59     | 30.00      | H            |

**LTE Band 66\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -18.13                 | -29.60                                     | 8.10                 | 19.57     | 30.00      | H            |
| 1745.00        | -18.12                 | -29.50                                     | 8.10                 | 19.48     | 30.00      | H            |
| 1770.00        | -18.22                 | -29.50                                     | 8.10                 | 19.38     | 30.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.58dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.50dB)+G<sub>a</sub>(8.10dB) =22.03dBm

ANALYZER SETTINGS:

RBW = VBW = 8MHz for occupied bandwidths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.87dB(30MHz-3GHz)/3.35dB(3GHz-18GHz), k = 2

**Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.**

**Lower antenna****LTE Band 2- EIRP Part 24. 232(b)****Limits:** ≤33dBm (2W)**LTE Band 2\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| 1850.70        | -15.52                 | -29.30                                     | 8.10                 | 21.88        | 33.00        | H            |
| 1880.00        | -15.53                 | -29.40                                     | 8.10                 | 21.97        | 33.00        | H            |
| <b>1909.30</b> | <b>-15.34</b>          | <b>-29.30</b>                              | <b>8.10</b>          | <b>22.06</b> | <b>33.00</b> | <b>H</b>     |

**LTE Band 2\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1851.50        | -15.56                 | -29.30                                     | 8.10                 | 21.84     | 33.00      | H            |
| 1880.00        | -15.75                 | -29.40                                     | 8.10                 | 21.75     | 33.00      | H            |
| 1908.50        | -15.61                 | -29.30                                     | 8.10                 | 21.79     | 33.00      | H            |

**LTE Band 2\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -15.65                 | -29.30                                     | 8.10                 | 21.75     | 33.00      | H            |
| 1880.00        | -15.87                 | -29.40                                     | 8.10                 | 21.63     | 33.00      | H            |
| 1907.50        | -15.59                 | -29.30                                     | 8.10                 | 21.81     | 33.00      | H            |

**LTE Band 2\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -15.68                 | -29.30                                     | 8.10                 | 21.72     | 33.00      | H            |
| 1880.00        | -15.84                 | -29.40                                     | 8.10                 | 21.66     | 33.00      | H            |
| 1905.00        | -15.65                 | -29.30                                     | 8.10                 | 21.75     | 33.00      | H            |

**LTE Band 2\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -15.77                 | -29.30                                     | 8.10                 | 21.63     | 33.00      | H            |
| 1880.00        | -15.91                 | -29.40                                     | 8.10                 | 21.59     | 33.00      | H            |
| 1902.50        | -15.70                 | -29.30                                     | 8.10                 | 21.70     | 33.00      | H            |

**LTE Band 2\_20 MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -15.78                 | -29.30                                     | 8.10                 | 21.62     | 33.00      | H            |
| 1880.00        | -15.95                 | -29.40                                     | 8.10                 | 21.55     | 33.00      | H            |
| 1900.00        | -15.74                 | -29.30                                     | 8.10                 | 21.66     | 33.00      | H            |

**LTE Band 2\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1850.70        | -16.45                 | -29.30                                    | 8.10                 | 20.95     | 33.00      | H            |
| 1880.00        | -16.44                 | -29.40                                    | 8.10                 | 21.06     | 33.00      | H            |
| 1909.30        | -16.29                 | -29.30                                    | 8.10                 | 21.11     | 33.00      | H            |

**LTE Band 2\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1851.50        | -16.49                 | -29.30                                    | 8.10                 | 20.91     | 33.00      | H            |
| 1880.00        | -16.51                 | -29.40                                    | 8.10                 | 20.99     | 33.00      | H            |
| 1908.50        | -16.34                 | -29.30                                    | 8.10                 | 21.06     | 33.00      | H            |

**LTE Band 2\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -16.54                 | -29.30                                    | 8.10                 | 20.86     | 33.00      | H            |
| 1880.00        | -16.46                 | -29.40                                    | 8.10                 | 21.04     | 33.00      | H            |
| 1907.50        | -16.30                 | -29.30                                    | 8.10                 | 21.10     | 33.00      | H            |

**LTE Band 2\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -16.57                 | -29.30                                    | 8.10                 | 20.83     | 33.00      | H            |
| 1880.00        | -16.59                 | -29.40                                    | 8.10                 | 20.91     | 33.00      | H            |
| 1905.00        | -16.44                 | -29.30                                    | 8.10                 | 20.96     | 33.00      | H            |

**LTE Band 2\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -16.60                 | -29.30                                    | 8.10                 | 20.80     | 33.00      | H            |
| 1880.00        | -16.65                 | -29.40                                    | 8.10                 | 20.85     | 33.00      | H            |
| 1902.50        | -16.36                 | -29.30                                    | 8.10                 | 21.04     | 33.00      | H            |

**LTE Band 2\_20 MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>o</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -16.65                 | -29.30                                    | 8.10                 | 20.75     | 33.00      | H            |
| 1880.00        | -16.70                 | -29.40                                    | 8.10                 | 20.80     | 33.00      | H            |
| 1900.00        | -16.44                 | -29.30                                    | 8.10                 | 20.96     | 33.00      | H            |

**LTE Band 2\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1850.70        | -17.71                 | -29.30                                     | 8.10                 | 19.69     | 33.00      | H            |
| 1880.00        | -17.67                 | -29.40                                     | 8.10                 | 19.83     | 33.00      | H            |
| 1909.30        | -17.76                 | -29.30                                     | 8.10                 | 19.64     | 33.00      | H            |

**LTE Band 2\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1851.50        | -17.76                 | -29.30                                     | 8.10                 | 19.64     | 33.00      | H            |
| 1880.00        | -18.12                 | -29.40                                     | 8.10                 | 19.38     | 33.00      | H            |
| 1908.50        | -17.88                 | -29.30                                     | 8.10                 | 19.52     | 33.00      | H            |

**LTE Band 2\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1852.50        | -17.99                 | -29.30                                     | 8.10                 | 19.41     | 33.00      | H            |
| 1880.00        | -17.88                 | -29.40                                     | 8.10                 | 19.62     | 33.00      | H            |
| 1907.50        | -17.96                 | -29.30                                     | 8.10                 | 19.44     | 33.00      | H            |

**LTE Band 2\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1855.00        | -17.76                 | -29.30                                     | 8.10                 | 19.64     | 33.00      | H            |
| 1880.00        | -18.24                 | -29.40                                     | 8.10                 | 19.26     | 33.00      | H            |
| 1905.00        | -17.78                 | -29.30                                     | 8.10                 | 19.62     | 33.00      | H            |

**LTE Band 2\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1857.50        | -17.93                 | -29.30                                     | 8.10                 | 19.47     | 33.00      | H            |
| 1880.00        | -17.94                 | -29.40                                     | 8.10                 | 19.56     | 33.00      | H            |
| 1902.50        | -17.63                 | -29.30                                     | 8.10                 | 19.77     | 33.00      | H            |

**LTE Band 2\_20 MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1860.00        | -17.76                 | -29.30                                     | 8.10                 | 19.64     | 33.00      | H            |
| 1880.00        | -17.82                 | -29.40                                     | 8.10                 | 19.68     | 33.00      | H            |
| 1900.00        | -17.78                 | -29.30                                     | 8.10                 | 19.62     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.34dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.30dB)+G<sub>a</sub>(8.10dB)=22.06dBm

**LTE Band 4- EIRP Part 27.50(d)****Limits:** ≤30dBm (1W)**LTE Band 4\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -15.88                 | -29.60                                     | 8.10                 | 21.82     | 30.00      | H            |
| 1732.50        | -15.86                 | -29.60                                     | 8.10                 | 21.84     | 30.00      | H            |
| 1754.30        | -15.58                 | -29.50                                     | 8.10                 | 22.02     | 30.00      | H            |

**LTE Band 4\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| 1711.50        | -15.80                 | -29.60                                     | 8.10                 | 21.90        | 30.00        | H            |
| 1732.50        | -15.90                 | -29.60                                     | 8.10                 | 21.80        | 30.00        | H            |
| <b>1753.50</b> | <b>-15.57</b>          | <b>-29.50</b>                              | <b>8.10</b>          | <b>22.03</b> | <b>30.00</b> | <b>H</b>     |

**LTE Band 4\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -15.84                 | -29.60                                     | 8.10                 | 21.86     | 30.00      | H            |
| 1732.50        | -15.80                 | -29.60                                     | 8.10                 | 21.90     | 30.00      | H            |
| 1752.50        | -15.65                 | -29.50                                     | 8.10                 | 21.95     | 30.00      | H            |

**LTE Band 4\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -15.88                 | -29.60                                     | 8.10                 | 21.82     | 30.00      | H            |
| 1732.50        | -15.93                 | -29.60                                     | 8.10                 | 21.77     | 30.00      | H            |
| 1750.00        | -15.70                 | -29.50                                     | 8.10                 | 21.90     | 30.00      | H            |

**LTE Band 4\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -15.89                 | -29.60                                     | 8.10                 | 21.81     | 30.00      | H            |
| 1732.50        | -15.92                 | -29.60                                     | 8.10                 | 21.78     | 30.00      | H            |
| 1747.50        | -15.67                 | -29.50                                     | 8.10                 | 21.93     | 30.00      | H            |

**LTE Band 4\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -15.98                 | -29.60                                     | 8.10                 | 21.72     | 30.00      | H            |
| 1732.50        | -16.01                 | -29.60                                     | 8.10                 | 21.69     | 30.00      | H            |
| 1745.00        | -15.79                 | -29.50                                     | 8.10                 | 21.81     | 30.00      | H            |

**LTE Band 4\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -17.04                 | -29.60                                     | 8.10                 | 20.66     | 30.00      | H            |
| 1732.50        | -16.92                 | -29.60                                     | 8.10                 | 20.78     | 30.00      | H            |
| 1754.30        | -16.90                 | -29.50                                     | 8.10                 | 20.70     | 30.00      | H            |

**LTE Band 4\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -17.11                 | -29.60                                     | 8.10                 | 20.59     | 30.00      | H            |
| 1732.50        | -17.14                 | -29.60                                     | 8.10                 | 20.56     | 30.00      | H            |
| 1753.50        | -16.91                 | -29.50                                     | 8.10                 | 20.69     | 30.00      | H            |

**LTE Band 4\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -17.12                 | -29.60                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1732.50        | -17.01                 | -29.60                                     | 8.10                 | 20.69     | 30.00      | H            |
| 1752.50        | -16.85                 | -29.50                                     | 8.10                 | 20.75     | 30.00      | H            |

**LTE Band 4\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -17.18                 | -29.60                                     | 8.10                 | 20.52     | 30.00      | H            |
| 1732.50        | -17.16                 | -29.60                                     | 8.10                 | 20.54     | 30.00      | H            |
| 1750.00        | -16.94                 | -29.50                                     | 8.10                 | 20.66     | 30.00      | H            |

**LTE Band 4\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -17.09                 | -29.60                                     | 8.10                 | 20.61     | 30.00      | H            |
| 1732.50        | -17.13                 | -29.60                                     | 8.10                 | 20.57     | 30.00      | H            |
| 1747.50        | -16.94                 | -29.50                                     | 8.10                 | 20.66     | 30.00      | H            |

**LTE Band 4\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -17.23                 | -29.60                                     | 8.10                 | 20.47     | 30.00      | H            |
| 1732.50        | -17.32                 | -29.60                                     | 8.10                 | 20.38     | 30.00      | H            |
| 1745.00        | -17.01                 | -29.50                                     | 8.10                 | 20.59     | 30.00      | H            |

**LTE Band 4\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -18.09                 | -29.60                                     | 8.10                 | 19.61     | 30.00      | H            |
| 1732.50        | -18.21                 | -29.60                                     | 8.10                 | 19.49     | 30.00      | H            |
| 1754.30        | -17.86                 | -29.50                                     | 8.10                 | 19.74     | 30.00      | H            |

**LTE Band 4\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -18.39                 | -29.60                                     | 8.10                 | 19.31     | 30.00      | H            |
| 1732.50        | -18.41                 | -29.60                                     | 8.10                 | 19.29     | 30.00      | H            |
| 1753.50        | -18.21                 | -29.50                                     | 8.10                 | 19.39     | 30.00      | H            |

**LTE Band 4\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -18.35                 | -29.60                                     | 8.10                 | 19.35     | 30.00      | H            |
| 1732.50        | -18.47                 | -29.60                                     | 8.10                 | 19.23     | 30.00      | H            |
| 1752.50        | -18.26                 | -29.50                                     | 8.10                 | 19.34     | 30.00      | H            |

**LTE Band 4\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -18.10                 | -29.60                                     | 8.10                 | 19.60     | 30.00      | H            |
| 1732.50        | -17.92                 | -29.60                                     | 8.10                 | 19.78     | 30.00      | H            |
| 1750.00        | -17.86                 | -29.50                                     | 8.10                 | 19.74     | 30.00      | H            |

**LTE Band 4\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -18.42                 | -29.60                                     | 8.10                 | 19.28     | 30.00      | H            |
| 1732.50        | -18.47                 | -29.60                                     | 8.10                 | 19.23     | 30.00      | H            |
| 1747.50        | -18.29                 | -29.50                                     | 8.10                 | 19.31     | 30.00      | H            |

**LTE Band 4\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -18.50                 | -29.60                                     | 8.10                 | 19.20     | 30.00      | H            |
| 1732.50        | -18.29                 | -29.60                                     | 8.10                 | 19.41     | 30.00      | H            |
| 1745.00        | -18.30                 | -29.50                                     | 8.10                 | 19.30     | 30.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.57dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.50dB)+G<sub>a</sub>(8.10dB) =22.03dBm

**LTE Band 7- EIRP Part 27.50(h)(2)****Limits:** ≤33 dBm (2W)**LTE Band 7\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|--------------|--------------|--------------|
| <b>2502.50</b> | <b>-17.60</b>          | <b>-28.70</b>                              | <b>10.70</b>                     | <b>21.80</b> | <b>33.00</b> | <b>H</b>     |
| 2535.00        | -17.72                 | -28.60                                     | 10.70                            | 21.58        | 33.00        | H            |
| 2567.50        | -17.81                 | -28.60                                     | 10.70                            | 21.49        | 33.00        | H            |

**LTE Band 7\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -17.80                 | -28.70                                     | 10.70                            | 21.60     | 33.00      | H            |
| 2535.00        | -17.68                 | -28.60                                     | 10.70                            | 21.62     | 33.00      | H            |
| 2565.00        | -17.85                 | -28.60                                     | 10.70                            | 21.45     | 33.00      | H            |

**LTE Band 7\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dB) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|---------------------------------|-----------|------------|--------------|
| 2507.50        | -17.81                 | -28.70                                     | 10.70                           | 21.59     | 33.00      | H            |
| 2535.00        | -17.77                 | -28.60                                     | 10.70                           | 21.53     | 33.00      | H            |
| 2562.50        | -17.83                 | -28.60                                     | 10.70                           | 21.47     | 33.00      | H            |

**LTE Band 7\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2510.00        | -17.84                 | -28.70                                     | 10.70                            | 21.56     | 33.00      | H            |
| 2535.00        | -17.76                 | -28.60                                     | 10.70                            | 21.54     | 33.00      | H            |
| 2560.00        | -17.85                 | -28.60                                     | 10.70                            | 21.45     | 33.00      | H            |

**LTE Band 7\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2502.50        | -18.75                 | -28.70                                     | 10.70                            | 20.65     | 33.00      | H            |
| 2535.00        | -18.70                 | -28.60                                     | 10.70                            | 20.60     | 33.00      | H            |
| 2567.50        | -18.72                 | -28.60                                     | 10.70                            | 20.58     | 33.00      | H            |

**LTE Band 7\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -18.79                 | -28.70                                     | 10.70                            | 20.61     | 33.00      | H            |
| 2535.00        | -18.71                 | -28.60                                     | 10.70                            | 20.59     | 33.00      | H            |
| 2565.00        | -18.73                 | -28.60                                     | 10.70                            | 20.57     | 33.00      | H            |

**LTE Band 7\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2507.50        | -18.91                 | -28.70                                     | 10.70                            | 20.50     | 33.00      | H            |
| 2535.00        | -18.91                 | -28.60                                     | 10.70                            | 20.40     | 33.00      | H            |
| 2562.50        | -18.92                 | -28.60                                     | 10.70                            | 20.38     | 33.00      | H            |

**LTE Band 7\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2510.00        | -18.91                 | -28.70                                     | 10.70                            | 20.49     | 33.00      | H            |
| 2535.00        | -18.84                 | -28.60                                     | 10.70                            | 20.46     | 33.00      | H            |
| 2560.00        | -18.85                 | -28.60                                     | 10.70                            | 20.45     | 33.00      | H            |

**LTE Band 7\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2502.50        | -19.62                 | -28.70                                     | 10.70                            | 19.78     | 33.00      | H            |
| 2535.00        | -19.52                 | -28.60                                     | 10.70                            | 19.78     | 33.00      | H            |
| 2567.50        | -19.51                 | -28.60                                     | 10.70                            | 19.79     | 33.00      | H            |

**LTE Band 7\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2505.00        | -19.71                 | -28.70                                     | 10.70                            | 19.69     | 33.00      | H            |
| 2535.00        | -19.69                 | -28.60                                     | 10.70                            | 19.61     | 33.00      | H            |
| 2565.00        | -19.65                 | -28.60                                     | 10.70                            | 19.65     | 33.00      | H            |

**LTE Band 7\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2507.50        | -19.81                 | -28.70                                     | 10.70                            | 19.59     | 33.00      | H            |
| 2535.00        | -19.74                 | -28.60                                     | 10.70                            | 19.56     | 33.00      | H            |
| 2562.50        | -19.75                 | -28.60                                     | 10.70                            | 19.55     | 33.00      | H            |

**LTE Band 7\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2510.00        | -19.74                 | -28.70                                     | 10.70                            | 19.66     | 33.00      | H            |
| 2535.00        | -19.68                 | -28.60                                     | 10.70                            | 19.62     | 33.00      | H            |
| 2560.00        | -19.75                 | -28.60                                     | 10.70                            | 19.55     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-17.60dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-28.70dB)+G<sub>a</sub>(10.70dB) =21.80dBm

**LTE Band 12 - ERP Part 27.50(c)(10)****Limits:** ≤34.77dBm (3W)**LTE Band 12\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 699.70         | -10.37                 | -34.80                                     | -0.93                   | 2.15               | 21.35    | 34.77      | V            |
| 707.50         | -10.10                 | -34.70                                     | -0.91                   | 2.15               | 21.54    | 34.77      | V            |
| 715.30         | -10.52                 | -34.70                                     | -0.68                   | 2.15               | 21.35    | 34.77      | V            |

**LTE Band 12\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|--------------|--------------|--------------|
| <b>700.50</b>  | <b>-10.12</b>          | <b>-34.80</b>                              | <b>-0.97</b>            | <b>2.15</b>        | <b>21.57</b> | <b>34.77</b> | <b>V</b>     |
| 707.50         | -10.21                 | -34.70                                     | -0.91                   | 2.15               | 21.44        | 34.77        | V            |
| 714.50         | -10.50                 | -34.70                                     | -0.64                   | 2.15               | 21.41        | 34.77        | V            |

**LTE Band 12\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 701.50         | -10.21                 | -34.80                                     | -0.97                   | 2.15               | 21.47    | 34.77      | V            |
| 707.50         | -10.10                 | -34.70                                     | -0.91                   | 2.15               | 21.54    | 34.77      | V            |
| 713.50         | -10.45                 | -34.70                                     | -0.64                   | 2.15               | 21.46    | 34.77      | V            |

**LTE Band 12\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 704.00         | -10.29                 | -34.80                                     | -0.97                   | 2.15               | 21.39    | 34.77      | V            |
| 707.50         | -10.21                 | -34.70                                     | -0.91                   | 2.15               | 21.43    | 34.77      | V            |
| 711.00         | -10.53                 | -34.70                                     | -0.64                   | 2.15               | 21.38    | 34.77      | V            |

**LTE Band 12\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 699.70         | -10.65                 | -34.80                                     | -0.93                | 2.15            | 21.07    | 34.77      | V            |
| 707.50         | -10.67                 | -34.70                                     | -0.91                | 2.15            | 20.98    | 34.77      | V            |
| 715.30         | -10.79                 | -34.70                                     | -0.68                | 2.15            | 21.08    | 34.77      | V            |

**LTE Band 12\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 700.50         | -10.70                 | -34.80                                     | -0.97                | 2.15            | 20.99    | 34.77      | V            |
| 707.50         | -10.71                 | -34.70                                     | -0.91                | 2.15            | 20.94    | 34.77      | V            |
| 714.50         | -11.03                 | -34.70                                     | -0.64                | 2.15            | 20.88    | 34.77      | V            |

**LTE Band 12\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 701.50         | -10.77                 | -34.80                                     | -0.97                | 2.15            | 20.91    | 34.77      | V            |
| 707.50         | -10.77                 | -34.70                                     | -0.91                | 2.15            | 20.88    | 34.77      | V            |
| 713.50         | -11.10                 | -34.70                                     | -0.64                | 2.15            | 20.80    | 34.77      | V            |

**LTE Band 12\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 704.00         | -10.75                 | -34.80                                     | -0.97                | 2.15            | 20.93    | 34.77      | V            |
| 707.50         | -10.80                 | -34.70                                     | -0.91                | 2.15            | 20.85    | 34.77      | V            |
| 711.00         | -11.15                 | -34.70                                     | -0.64                | 2.15            | 20.76    | 34.77      | V            |

**LTE Band 12\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 699.70         | -12.26                 | -34.80                                     | -0.93                | 2.15            | 19.46    | 34.77      | V            |
| 707.50         | -12.29                 | -34.70                                     | -0.91                | 2.15            | 19.35    | 34.77      | V            |
| 715.30         | -12.55                 | -34.70                                     | -0.68                | 2.15            | 19.32    | 34.77      | V            |

**LTE Band 12\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 700.50         | -12.34                 | -34.80                                     | -0.97                | 2.15            | 19.34    | 34.77      | V            |
| 707.50         | -12.35                 | -34.70                                     | -0.91                | 2.15            | 19.29    | 34.77      | V            |
| 714.50         | -12.69                 | -34.70                                     | -0.64                | 2.15            | 19.22    | 34.77      | V            |

**LTE Band 12\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 701.50         | -12.40                 | -34.80                                     | -0.97                | 2.15            | 19.28    | 34.77      | V            |
| 707.50         | -12.44                 | -34.70                                     | -0.91                | 2.15            | 19.21    | 34.77      | V            |
| 713.50         | -12.73                 | -34.70                                     | -0.64                | 2.15            | 19.18    | 34.77      | V            |

**LTE Band 12\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 704.00         | -12.26                 | -34.80                                     | -0.97                | 2.15            | 19.42    | 34.77      | V            |
| 707.50         | -12.30                 | -34.70                                     | -0.91                | 2.15            | 19.35    | 34.77      | V            |
| 711.00         | -12.76                 | -34.70                                     | -0.64                | 2.15            | 19.15    | 34.77      | V            |

Peak ERP (dBm)=P<sub>Mea</sub>(-10.12Bm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-34.80dB)+G<sub>a</sub>(-0.97dB) -2.15dB =21.57Bm



**LTE band 26(814MHz-824MHz)- ERP Part 90.635(b)**

**Limits:** ≤50.00dBm (100W)

**LTE band 26(814MHz-824MHz)\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|--------------|--------------|--------------|
| <b>814.70</b>  | <b>-9.77</b>           | <b>-33.70</b>                              | <b>-0.80</b>            | <b>2.15</b>        | <b>20.98</b> | <b>50.00</b> | <b>H</b>     |
| 819.00         | -9.83                  | -33.60                                     | -0.75                   | 2.15               | 20.87        | 50.00        | H            |
| 823.30         | -9.89                  | -33.60                                     | -0.79                   | 2.15               | 20.77        | 50.00        | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 815.50         | -9.89                  | -33.70                                     | -0.80                   | 2.15               | 20.86    | 50.00      | H            |
| 819.00         | -9.92                  | -33.60                                     | -0.75                   | 2.15               | 20.79    | 50.00      | H            |
| 822.50         | -9.86                  | -33.60                                     | -0.79                   | 2.15               | 20.80    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 816.50         | -9.84                  | -33.70                                     | -0.80                   | 2.15               | 20.91    | 50.00      | H            |
| 819.00         | -9.88                  | -33.60                                     | -0.75                   | 2.15               | 20.82    | 50.00      | H            |
| 821.50         | -9.78                  | -33.60                                     | -0.79                   | 2.15               | 20.88    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 819.00         | -9.77                  | -33.60                                     | -0.80                   | 2.15               | 20.88    | 50.00      | H            |
| 819.00         | -9.83                  | -33.60                                     | -0.75                   | 2.15               | 20.88    | 50.00      | H            |
| 819.00         | -9.78                  | -33.60                                     | -0.79                   | 2.15               | 20.88    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 814.70         | -10.27                 | -33.70                                     | -0.80                   | 2.15               | 20.48    | 50.00      | H            |
| 819.00         | -10.30                 | -33.60                                     | -0.75                   | 2.15               | 20.41    | 50.00      | H            |
| 823.30         | -10.28                 | -33.60                                     | -0.79                   | 2.15               | 20.38    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 815.50         | -10.24                 | -33.70                                     | -0.80                   | 2.15               | 20.51    | 50.00      | H            |
| 819.00         | -10.35                 | -33.60                                     | -0.75                   | 2.15               | 20.35    | 50.00      | H            |
| 822.50         | -10.28                 | -33.60                                     | -0.79                   | 2.15               | 20.38    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 816.50         | -10.34                 | -33.70                                     | -0.80                   | 2.15               | 20.41    | 50.00      | H            |
| 819.00         | -10.31                 | -33.60                                     | -0.75                   | 2.15               | 20.39    | 50.00      | H            |
| 821.50         | -10.30                 | -33.60                                     | -0.79                   | 2.15               | 20.36    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna<br>Gain(dBi) | Correction<br>(dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|-------------------------|--------------------|----------|------------|--------------|
| 819.00         | -10.33                 | -33.60                                     | -0.80                   | 2.15               | 20.32    | 50.00      | H            |
| 819.00         | -10.38                 | -33.60                                     | -0.75                   | 2.15               | 20.32    | 50.00      | H            |
| 819.00         | -10.34                 | -33.60                                     | -0.79                   | 2.15               | 20.32    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 814.70         | -10.76                 | -33.70                                     | -0.80                | 2.15            | 19.99    | 50.00      | H            |
| 819.00         | -10.83                 | -33.60                                     | -0.75                | 2.15            | 19.88    | 50.00      | H            |
| 823.30         | -10.74                 | -33.60                                     | -0.79                | 2.15            | 19.91    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 815.50         | -10.78                 | -33.70                                     | -0.80                | 2.15            | 19.97    | 50.00      | H            |
| 819.00         | -10.86                 | -33.60                                     | -0.75                | 2.15            | 19.85    | 50.00      | H            |
| 822.50         | -10.76                 | -33.60                                     | -0.79                | 2.15            | 19.90    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 816.50         | -10.88                 | -33.70                                     | -0.80                | 2.15            | 19.87    | 50.00      | H            |
| 819.00         | -10.86                 | -33.60                                     | -0.75                | 2.15            | 19.85    | 50.00      | H            |
| 821.50         | -10.82                 | -33.60                                     | -0.79                | 2.15            | 19.83    | 50.00      | H            |

**LTE band 26(814MHz-824MHz)\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 819.00         | -10.85                 | -33.60                                     | -0.80                | 2.15            | 19.80    | 50.00      | H            |
| 819.00         | -10.90                 | -33.60                                     | -0.75                | 2.15            | 19.80    | 50.00      | H            |
| 819.00         | -10.86                 | -33.60                                     | -0.79                | 2.15            | 19.80    | 50.00      | H            |

Peak ERP (dBm)=P<sub>Mea</sub>(-9.77dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-33.70dB)+G<sub>a</sub>(-0.80dB) -2.15 =20.98dBm

**LTE band 26(824MHz-849MHz)- ERP Part 22.913(a)**
**Limits:** ≤38.45dBm (7W)

**LTE band 26(824MHz-849MHz)\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm)     | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|--------------|--------------|--------------|
| 824.70         | -9.62                  | -33.60                                     | -0.79                | 2.15            | 21.03        | 38.45        | H            |
| <b>836.50</b>  | <b>-9.49</b>           | <b>-33.50</b>                              | <b>-0.74</b>         | <b>2.15</b>     | <b>21.12</b> | <b>38.45</b> | <b>H</b>     |
| 848.30         | -9.55                  | -33.50                                     | -0.73                | 2.15            | 21.07        | 38.45        | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -9.67                  | -33.60                                     | -0.79                | 2.15            | 20.99    | 38.45      | H            |
| 836.50         | -9.74                  | -33.50                                     | -0.74                | 2.15            | 20.88    | 38.45      | H            |
| 847.50         | -9.71                  | -33.50                                     | -0.73                | 2.15            | 20.90    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 826.50         | -9.71                  | -33.60                                     | -0.79                | 2.15            | 20.94    | 38.45      | H            |
| 836.50         | -9.84                  | -33.50                                     | -0.74                | 2.15            | 20.78    | 38.45      | H            |
| 846.50         | -9.72                  | -33.50                                     | -0.73                | 2.15            | 20.90    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -9.79                  | -33.60                                     | -0.79                | 2.15            | 20.87    | 38.45      | H            |
| 836.50         | -9.86                  | -33.50                                     | -0.74                | 2.15            | 20.75    | 38.45      | H            |
| 844.00         | -9.81                  | -33.50                                     | -0.73                | 2.15            | 20.81    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -9.89                  | -33.60                                     | -0.79                | 2.15            | 20.77    | 38.45      | H            |
| 836.50         | -9.96                  | -33.50                                     | -0.74                | 2.15            | 20.65    | 38.45      | H            |
| 841.50         | -9.86                  | -33.50                                     | -0.73                | 2.15            | 20.76    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 824.70         | -10.09                 | -33.60                                     | -0.79                | 2.15            | 20.57    | 38.45      | H            |
| 836.50         | -10.13                 | -33.50                                     | -0.74                | 2.15            | 20.49    | 38.45      | H            |
| 848.30         | -10.17                 | -33.50                                     | -0.73                | 2.15            | 20.44    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -10.11                 | -33.60                                     | -0.79                | 2.15            | 20.54    | 38.45      | H            |
| 836.50         | -10.18                 | -33.50                                     | -0.74                | 2.15            | 20.43    | 38.45      | H            |
| 847.50         | -10.29                 | -33.50                                     | -0.73                | 2.15            | 20.32    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 826.50         | -10.18                 | -33.60                                     | -0.79                | 2.15            | 20.48    | 38.45      | H            |
| 836.50         | -10.25                 | -33.50                                     | -0.74                | 2.15            | 20.37    | 38.45      | H            |
| 846.50         | -10.32                 | -33.50                                     | -0.73                | 2.15            | 20.30    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -10.31                 | -33.60                                     | -0.79                | 2.15            | 20.35    | 38.45      | H            |
| 836.50         | -10.25                 | -33.50                                     | -0.74                | 2.15            | 20.37    | 38.45      | H            |
| 844.00         | -10.29                 | -33.50                                     | -0.73                | 2.15            | 20.33    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -10.31                 | -33.60                                     | -0.79                | 2.15            | 20.34    | 38.45      | H            |
| 836.50         | -10.28                 | -33.50                                     | -0.74                | 2.15            | 20.33    | 38.45      | H            |
| 841.50         | -10.36                 | -33.50                                     | -0.73                | 2.15            | 20.26    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 824.70         | -10.64                 | -33.60                                     | -0.79                | 2.15            | 20.01    | 38.45      | H            |
| 836.50         | -10.66                 | -33.50                                     | -0.74                | 2.15            | 19.96    | 38.45      | H            |
| 848.30         | -10.72                 | -33.50                                     | -0.73                | 2.15            | 19.90    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 825.50         | -10.71                 | -33.60                                     | -0.79                | 2.15            | 19.95    | 38.45      | H            |
| 836.50         | -10.75                 | -33.50                                     | -0.74                | 2.15            | 19.86    | 38.45      | H            |
| 847.50         | -10.81                 | -33.50                                     | -0.73                | 2.15            | 19.81    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 826.50         | -10.84                 | -33.60                                     | -0.79                | 2.15            | 19.82    | 38.45      | H            |
| 836.50         | -10.70                 | -33.50                                     | -0.74                | 2.15            | 19.91    | 38.45      | H            |
| 846.50         | -11.27                 | -33.50                                     | -0.73                | 2.15            | 19.35    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 829.00         | -10.87                 | -33.60                                     | -0.79                | 2.15            | 19.79    | 38.45      | H            |
| 836.50         | -10.86                 | -33.50                                     | -0.74                | 2.15            | 19.75    | 38.45      | H            |
| 844.00         | -10.94                 | -33.50                                     | -0.73                | 2.15            | 19.68    | 38.45      | H            |

**LTE band 26(824MHz-849MHz)\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | Correction (dB) | ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------------|----------|------------|--------------|
| 831.50         | -10.81                 | -33.60                                     | -0.79                | 2.15            | 19.85    | 38.45      | H            |
| 836.50         | -10.78                 | -33.50                                     | -0.74                | 2.15            | 19.83    | 38.45      | H            |
| 841.50         | -11.27                 | -33.50                                     | -0.73                | 2.15            | 19.34    | 38.45      | H            |

Peak ERP (dBm)=P<sub>Mea</sub>(-9.49dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-33.50dB)+G<sub>a</sub>(-0.74dB) -2.15=21.12dBm

**LTE Band 41 - EIRP Part 27.50(h)(2)****Limits:** ≤33dBm (2W)**LTE Band 41\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| <b>2537.50</b> | <b>-17.15</b>          | <b>-28.70</b>                              | <b>10.70</b>         | <b>22.25</b> | <b>33.00</b> | <b>H</b>     |
| 2595.00        | -17.13                 | -28.60                                     | 10.70                | 22.17        | 33.00        | H            |
| 2652.50        | -17.09                 | -28.50                                     | 10.70                | 22.11        | 33.00        | H            |

**LTE Band 41\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2540.00        | -17.22                 | -28.70                                     | 10.70                | 22.18     | 33.00      | H            |
| 2595.00        | -17.17                 | -28.60                                     | 10.70                | 22.13     | 33.00      | H            |
| 2650.00        | -17.19                 | -28.50                                     | 10.70                | 22.02     | 33.00      | H            |

**LTE Band 41\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2542.50        | -17.18                 | -28.70                                     | 10.70                | 22.22     | 33.00      | H            |
| 2595.00        | -17.31                 | -28.60                                     | 10.70                | 22.00     | 33.00      | H            |
| 2647.50        | -17.31                 | -28.50                                     | 10.70                | 21.89     | 33.00      | H            |

**LTE Band 41\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 2545.00        | -17.37                 | -28.70                                     | 10.70                | 22.03     | 33.00      | H            |
| 2595.00        | -17.48                 | -28.60                                     | 10.70                | 21.82     | 33.00      | H            |
| 2645.00        | -17.51                 | -28.50                                     | 10.70                | 21.69     | 33.00      | H            |

**LTE Band 41\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>α</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2537.50        | -18.75                 | -28.70                                    | 10.70                | 20.65     | 33.00      | H            |
| 2595.00        | -18.28                 | -28.60                                    | 10.70                | 21.02     | 33.00      | H            |
| 2652.50        | -18.65                 | -28.50                                    | 10.70                | 20.55     | 33.00      | H            |

**LTE Band 41\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>α</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2540.00        | -18.79                 | -28.70                                    | 10.70                | 20.61     | 33.00      | H            |
| 2595.00        | -18.41                 | -28.60                                    | 10.70                | 20.89     | 33.00      | H            |
| 2650.00        | -18.67                 | -28.50                                    | 10.70                | 20.53     | 33.00      | H            |

**LTE Band 41\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>α</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2542.50        | -18.89                 | -28.70                                    | 10.70                | 20.51     | 33.00      | H            |
| 2595.00        | -18.51                 | -28.60                                    | 10.70                | 20.80     | 33.00      | H            |
| 2647.50        | -18.71                 | -28.50                                    | 10.70                | 20.49     | 33.00      | H            |

**LTE Band 41\_20 MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>α</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-------------------------------------------|----------------------|-----------|------------|--------------|
| 2545.00        | -18.94                 | -28.70                                    | 10.70                | 20.46     | 33.00      | H            |
| 2595.00        | -18.49                 | -28.60                                    | 10.70                | 20.81     | 33.00      | H            |
| 2645.00        | -18.70                 | -28.50                                    | 10.70                | 20.50     | 33.00      | H            |

**LTE Band 41\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2537.50        | -19.82                 | -28.70                                     | 10.70                            | 19.58     | 33.00      | H            |
| 2595.00        | -19.63                 | -28.60                                     | 10.70                            | 19.67     | 33.00      | H            |
| 2652.50        | -19.94                 | -28.60                                     | 10.70                            | 19.36     | 33.00      | H            |

**LTE Band 41\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2540.00        | -19.91                 | -28.70                                     | 10.70                            | 19.49     | 33.00      | H            |
| 2595.00        | -19.71                 | -28.60                                     | 10.70                            | 19.59     | 33.00      | H            |
| 2650.00        | -19.89                 | -28.60                                     | 10.70                            | 19.41     | 33.00      | H            |

**LTE Band 41\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2542.50        | -19.93                 | -28.70                                     | 10.70                            | 19.47     | 33.00      | H            |
| 2595.00        | -19.69                 | -28.60                                     | 10.70                            | 19.61     | 33.00      | H            |
| 2647.50        | -19.96                 | -28.60                                     | 10.70                            | 19.34     | 33.00      | H            |

**LTE Band 41\_20 MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | G <sub>a</sub> Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------------------|-----------|------------|--------------|
| 2545.00        | -19.98                 | -28.70                                     | 10.70                            | 19.42     | 33.00      | H            |
| 2595.00        | -19.75                 | -28.60                                     | 10.70                            | 19.55     | 33.00      | H            |
| 2645.00        | -20.05                 | -28.60                                     | 10.70                            | 19.25     | 33.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-17.15dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>) (-28.70dB)+G<sub>a</sub>(10.70dB) =22.25dBm

**LTE Band 66- EIRP Part 27.50(d)****Limits:** ≤30dBm (1W)**LTE Band 66\_1.4MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm)    | Limit(dBm)   | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|--------------|--------------|--------------|
| <b>1710.70</b> | <b>-15.43</b>          | <b>-29.60</b>                              | <b>8.10</b>          | <b>22.27</b> | <b>30.00</b> | <b>H</b>     |
| 1745.00        | -15.49                 | -29.50                                     | 8.10                 | 22.11        | 30.00        | H            |
| 1779.30        | -15.57                 | -29.50                                     | 8.10                 | 22.03        | 30.00        | H            |

**LTE Band 66\_3MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -15.73                 | -29.60                                     | 8.10                 | 21.97     | 30.00      | H            |
| 1745.00        | -15.65                 | -29.50                                     | 8.10                 | 21.95     | 30.00      | H            |
| 1778.50        | -15.69                 | -29.50                                     | 8.10                 | 21.92     | 30.00      | H            |

**LTE Band 66\_5MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -15.65                 | -29.60                                     | 8.10                 | 22.05     | 30.00      | H            |
| 1745.00        | -15.61                 | -29.50                                     | 8.10                 | 22.00     | 30.00      | H            |
| 1777.50        | -15.66                 | -29.50                                     | 8.10                 | 21.94     | 30.00      | H            |

**LTE Band 66\_10MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -15.87                 | -29.60                                     | 8.10                 | 21.83     | 30.00      | H            |
| 1745.00        | -15.88                 | -29.50                                     | 8.10                 | 21.72     | 30.00      | H            |
| 1775.00        | -16.00                 | -29.50                                     | 8.10                 | 21.60     | 30.00      | H            |

**LTE Band 66\_15MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -15.97                 | -29.60                                     | 8.10                 | 21.73     | 30.00      | H            |
| 1745.00        | -16.02                 | -29.50                                     | 8.10                 | 21.58     | 30.00      | H            |
| 1772.53        | -16.11                 | -29.50                                     | 8.10                 | 21.49     | 30.00      | H            |

**LTE Band 66\_20MHz\_QPSK**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -16.09                 | -29.60                                     | 8.10                 | 21.61     | 30.00      | H            |
| 1745.00        | -16.10                 | -29.50                                     | 8.10                 | 21.50     | 30.00      | H            |
| 1770.00        | -16.13                 | -29.50                                     | 8.10                 | 21.47     | 30.00      | H            |

**LTE Band 66\_1.4MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -16.96                 | -29.60                                     | 8.10                 | 20.74     | 30.00      | H            |
| 1745.00        | -17.02                 | -29.50                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1779.30        | -17.07                 | -29.50                                     | 8.10                 | 20.53     | 30.00      | H            |

**LTE Band 66\_3MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -16.98                 | -29.60                                     | 8.10                 | 20.72     | 30.00      | H            |
| 1745.00        | -16.99                 | -29.50                                     | 8.10                 | 20.61     | 30.00      | H            |
| 1778.50        | -17.11                 | -29.50                                     | 8.10                 | 20.49     | 30.00      | H            |

**LTE Band 66\_5MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -17.13                 | -29.60                                     | 8.10                 | 20.57     | 30.00      | H            |
| 1745.00        | -17.11                 | -29.50                                     | 8.10                 | 20.49     | 30.00      | H            |
| 1777.50        | -17.15                 | -29.50                                     | 8.10                 | 20.45     | 30.00      | H            |

**LTE Band 66\_10MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -17.09                 | -29.60                                     | 8.10                 | 20.61     | 30.00      | H            |
| 1745.00        | -17.05                 | -29.50                                     | 8.10                 | 20.55     | 30.00      | H            |
| 1775.00        | -17.18                 | -29.50                                     | 8.10                 | 20.42     | 30.00      | H            |

**LTE Band 66\_15MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -17.15                 | -29.60                                     | 8.10                 | 20.55     | 30.00      | H            |
| 1745.00        | -17.13                 | -29.50                                     | 8.10                 | 20.48     | 30.00      | H            |
| 1772.53        | -17.15                 | -29.50                                     | 8.10                 | 20.45     | 30.00      | H            |

**LTE Band 66\_20MHz\_16QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -17.12                 | -29.60                                     | 8.10                 | 20.58     | 30.00      | H            |
| 1745.00        | -17.11                 | -29.50                                     | 8.10                 | 20.49     | 30.00      | H            |
| 1770.00        | -17.21                 | -29.50                                     | 8.10                 | 20.39     | 30.00      | H            |

**LTE Band 66\_1.4MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1710.70        | -17.89                 | -29.60                                     | 8.10                 | 19.81     | 30.00      | H            |
| 1745.00        | -17.89                 | -29.50                                     | 8.10                 | 19.71     | 30.00      | H            |
| 1779.30        | -18.00                 | -29.50                                     | 8.10                 | 19.60     | 30.00      | H            |

**LTE Band 66\_3MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1711.50        | -18.01                 | -29.60                                     | 8.10                 | 19.69     | 30.00      | H            |
| 1745.00        | -17.99                 | -29.50                                     | 8.10                 | 19.61     | 30.00      | H            |
| 1778.50        | -18.05                 | -29.50                                     | 8.10                 | 19.55     | 30.00      | H            |

**LTE Band 66\_5MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1712.50        | -18.07                 | -29.60                                     | 8.10                 | 19.63     | 30.00      | H            |
| 1745.00        | -18.22                 | -29.50                                     | 8.10                 | 19.38     | 30.00      | H            |
| 1777.50        | -18.25                 | -29.50                                     | 8.10                 | 19.36     | 30.00      | H            |

**LTE Band 66\_10MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1715.00        | -18.17                 | -29.60                                     | 8.10                 | 19.53     | 30.00      | H            |
| 1745.00        | -18.15                 | -29.50                                     | 8.10                 | 19.45     | 30.00      | H            |
| 1775.00        | -18.29                 | -29.50                                     | 8.10                 | 19.31     | 30.00      | H            |

**LTE Band 66\_15MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1717.50        | -18.15                 | -29.60                                     | 8.10                 | 19.55     | 30.00      | H            |
| 1745.00        | -18.21                 | -29.50                                     | 8.10                 | 19.40     | 30.00      | H            |
| 1772.53        | -18.17                 | -29.50                                     | 8.10                 | 19.43     | 30.00      | H            |

**LTE Band 66\_20MHz\_64QAM**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | P <sub>cl</sub> (dB)+ P <sub>Ag</sub> (dB) | Ga Antenna Gain(dBi) | EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|--------------------------------------------|----------------------|-----------|------------|--------------|
| 1720.00        | -18.18                 | -29.60                                     | 8.10                 | 19.52     | 30.00      | H            |
| 1745.00        | -18.19                 | -29.50                                     | 8.10                 | 19.41     | 30.00      | H            |
| 1770.00        | -18.15                 | -29.50                                     | 8.10                 | 19.45     | 30.00      | H            |

Peak EIRP (dBm)=P<sub>Mea</sub>(-15.43dBm)-(P<sub>cl</sub>+P<sub>Ag</sub>)(-29.60dB)+G<sub>a</sub>(8.10dB) =22.27dBm

ANALYZER SETTINGS:

RBW = VBW = 8MHz for occupied bandwidths equal to or less than 5MHz.

RBW = VBW = 20MHz for occupied bandwidths equal to or greater than 10MHz.

Note: The maximum value of expanded measurement uncertainty for this test item is U = 2.87dB(30MHz-3GHz)/3.35dB(3GHz-18GHz), k = 2

**Note: Both of Vertical and Horizontal polarizations are evaluated, but only the worst case is recorded in this report.**

## A.2 FIELD STRENGTH OF SPURIOUS RADIATION

### Reference

FCC: CFR 2.1053, 22.917, 24.238, 27.53, 90.543(e), 90.691.

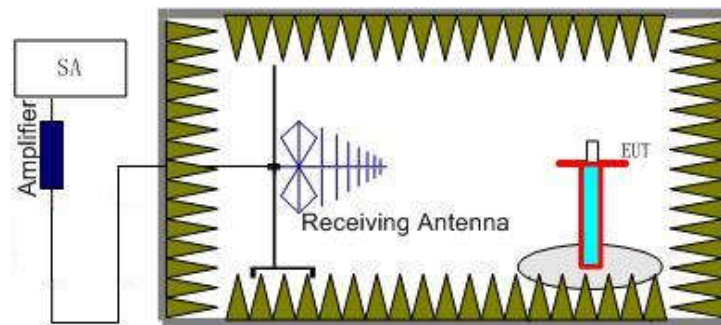
### A.2.1 Measurement Method

This measurement is carried out in fully-anechoic chamber FAC-3.

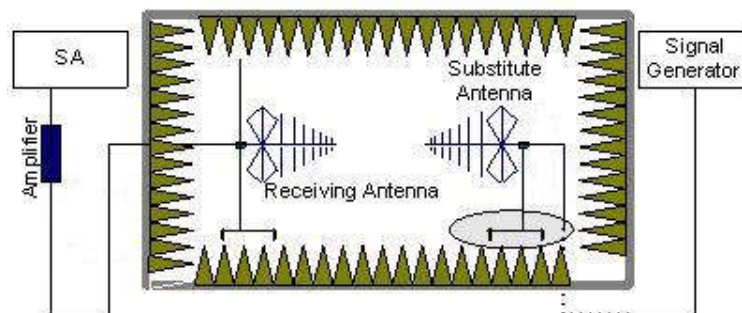
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier. The resolution bandwidth is set 1MHz as outlined in Part 22.917, 24.238, 27.53(h) and 90.691. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the LTE Bands 2,4,5,7,12,17,18,19,26,38,41,66.

### The procedure of radiated spurious emissions is as follows:

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss ( $P_{pl}$ ) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain(dBi) ( $G_a$ ) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss ( $P_{pl}$ ) is the summation of the cable loss and the gain of the amplifier.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{pl} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit: dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dB}$ .

#### **A.2.2 Measurement Results**

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the LTE Bands 2,4,5,7,12,17,18,19,26,38,41,66. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the LTE Bands 2,4,5,7,12,17,18,19,26,38,41,66. into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

Only worst case result is given below.

**Upper antenna**
**LTE Band 2, 1.4MHz, QPSK, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16959.52       | -45.10                 | 2.90      | 16.50             | -31.50         | -13.00     | H            |
| 17310.00       | -43.43                 | 3.20      | 14.50             | -32.13         | -13.00     | H            |
| 17460.48       | -41.66                 | 2.90      | 14.50             | -30.06         | -13.00     | H            |
| 17590.00       | -39.11                 | 3.30      | 12.80             | -29.61         | -13.00     | H            |
| 17776.67       | -40.65                 | 3.60      | 12.80             | -31.45         | -13.00     | H            |
| 18000.00       | -31.65                 | 3.20      | 6.20              | -28.65         | -13.00     | H            |

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16966.19       | -45.53                 | 2.90      | 16.50             | -31.93         | -13.00     | H            |
| 17268.10       | -43.21                 | 3.20      | 14.50             | -31.91         | -13.00     | H            |
| 17447.14       | -42.41                 | 2.90      | 14.50             | -30.81         | -13.00     | H            |
| 17569.05       | -40.05                 | 3.30      | 12.80             | -30.55         | -13.00     | H            |
| 17836.67       | -40.03                 | 3.60      | 12.80             | -30.83         | -13.00     | H            |
| 17993.81       | -38.21                 | 3.20      | 12.80             | -28.61         | -13.00     | H            |

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16958.57       | -45.30                 | 2.90      | 16.50             | -31.70         | -13.00     | H            |
| 17312.38       | -43.60                 | 3.20      | 14.50             | -32.30         | -13.00     | H            |
| 17488.57       | -41.93                 | 2.90      | 14.50             | -30.33         | -13.00     | H            |
| 17608.57       | -39.81                 | 3.30      | 12.80             | -30.31         | -13.00     | H            |
| 17835.71       | -40.44                 | 3.60      | 12.80             | -31.24         | -13.00     | H            |
| 17938.10       | -38.13                 | 3.20      | 12.80             | -28.53         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16960.00       | -45.20                 | 2.90      | 16.50             | -31.60         | -13.00     | H            |
| 17110.95       | -43.22                 | 2.90      | 14.50             | -31.62         | -13.00     | H            |
| 17523.33       | -40.12                 | 2.90      | 12.80             | -30.22         | -13.00     | H            |
| 17621.90       | -39.61                 | 3.30      | 12.80             | -30.11         | -13.00     | H            |
| 17839.05       | -40.44                 | 3.60      | 12.80             | -31.24         | -13.00     | H            |
| 17969.52       | -38.41                 | 3.20      | 12.80             | -28.81         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17121.90       | -43.39                 | 2.90      | 14.50             | -31.79         | -13.00     | H            |
| 17298.57       | -42.43                 | 3.20      | 14.50             | -31.13         | -13.00     | H            |
| 17521.90       | -40.11                 | 2.90      | 12.80             | -30.21         | -13.00     | H            |
| 17625.71       | -40.09                 | 3.30      | 12.80             | -30.59         | -13.00     | H            |
| 17800.00       | -40.32                 | 3.60      | 12.80             | -31.12         | -13.00     | H            |
| 17953.33       | -38.38                 | 3.20      | 12.80             | -28.78         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16935.24       | -45.20                 | 2.90      | 16.50             | -31.60         | -13.00     | H            |
| 17282.38       | -42.81                 | 3.20      | 14.50             | -31.51         | -13.00     | H            |
| 17442.38       | -41.42                 | 2.90      | 14.50             | -29.82         | -13.00     | H            |
| 17593.33       | -40.14                 | 3.30      | 12.80             | -30.64         | -13.00     | H            |
| 17829.52       | -40.25                 | 3.60      | 12.80             | -31.05         | -13.00     | H            |
| 17984.29       | -38.32                 | 3.20      | 12.80             | -28.72         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16978.57       | -45.23                 | 2.90      | 16.50             | -31.63         | -13.00     | H            |
| 17340.00       | -43.18                 | 3.20      | 14.50             | -31.88         | -13.00     | H            |
| 17444.76       | -42.12                 | 2.90      | 14.50             | -30.52         | -13.00     | H            |
| 17602.38       | -39.65                 | 3.30      | 12.80             | -30.15         | -13.00     | H            |
| 17836.67       | -39.63                 | 3.60      | 12.80             | -30.43         | -13.00     | H            |
| 17939.52       | -37.95                 | 3.20      | 12.80             | -28.35         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16935.24       | -45.61                 | 2.90      | 16.50             | -32.01         | -13.00     | H            |
| 17298.10       | -42.25                 | 3.20      | 14.50             | -30.95         | -13.00     | H            |
| 17511.43       | -40.20                 | 2.90      | 12.80             | -30.30         | -13.00     | H            |
| 17616.19       | -39.71                 | 3.30      | 12.80             | -30.21         | -13.00     | H            |
| 17797.62       | -39.74                 | 3.60      | 12.80             | -30.54         | -13.00     | H            |
| 17995.71       | -37.99                 | 3.20      | 12.80             | -28.39         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16967.62       | -45.56                 | 2.90      | 16.50             | -31.96         | -13.00     | H            |
| 17252.86       | -43.57                 | 3.20      | 14.50             | -32.27         | -13.00     | H            |
| 17449.52       | -42.05                 | 2.90      | 14.50             | -30.45         | -13.00     | H            |
| 17642.38       | -39.34                 | 3.30      | 12.80             | -29.84         | -13.00     | H            |
| 17797.14       | -40.17                 | 3.60      | 12.80             | -30.97         | -13.00     | H            |
| 17992.86       | -38.11                 | 3.20      | 12.80             | -28.51         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 4, 1.4MHz QPSK, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16988.57       | -44.99                 | 2.90      | 16.50             | -31.39         | -13.00     | H            |
| 17354.76       | -43.00                 | 3.20      | 14.50             | -31.70         | -13.00     | H            |
| 17502.38       | -40.25                 | 2.90      | 12.80             | -30.35         | -13.00     | H            |
| 17570.95       | -39.81                 | 3.30      | 12.80             | -30.31         | -13.00     | H            |
| 17820.00       | -39.18                 | 3.60      | 12.80             | -29.98         | -13.00     | H            |
| 17995.24       | -38.47                 | 3.20      | 12.80             | -28.87         | -13.00     | H            |

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16979.52       | -45.22                 | 2.90      | 16.50             | -31.62         | -13.00     | H            |
| 17364.29       | -42.34                 | 3.20      | 14.50             | -31.04         | -13.00     | H            |
| 17441.90       | -40.94                 | 2.90      | 14.50             | -29.34         | -13.00     | H            |
| 17525.71       | -39.84                 | 2.90      | 12.80             | -29.94         | -13.00     | H            |
| 17774.76       | -38.63                 | 3.60      | 12.80             | -29.43         | -13.00     | H            |
| 17930.95       | -37.08                 | 3.20      | 12.80             | -27.48         | -13.00     | H            |

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16922.86       | -45.23                 | 2.90      | 16.50             | -31.63         | -13.00     | H            |
| 17101.90       | -43.91                 | 2.90      | 14.50             | -32.31         | -13.00     | H            |
| 17438.10       | -41.89                 | 2.90      | 14.50             | -30.29         | -13.00     | H            |
| 17550.95       | -40.16                 | 2.90      | 12.80             | -30.26         | -13.00     | H            |
| 17830.95       | -39.66                 | 3.60      | 12.80             | -30.46         | -13.00     | H            |
| 17928.57       | -37.29                 | 3.20      | 12.80             | -27.69         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17080.95       | -44.52                 | 2.90      | 14.50             | -32.92         | -13.00     | H            |
| 17271.43       | -42.77                 | 3.20      | 14.50             | -31.47         | -13.00     | H            |
| 17417.14       | -41.88                 | 2.90      | 14.50             | -30.28         | -13.00     | H            |
| 17574.76       | -40.19                 | 3.30      | 12.80             | -30.69         | -13.00     | H            |
| 17824.29       | -39.51                 | 3.60      | 12.80             | -30.31         | -13.00     | H            |
| 17999.05       | -37.93                 | 3.20      | 12.80             | -28.33         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16944.29       | -45.46                 | 2.90      | 16.50             | -31.86         | -13.00     | H            |
| 17276.19       | -43.29                 | 3.20      | 14.50             | -31.99         | -13.00     | H            |
| 17524.29       | -40.07                 | 2.90      | 12.80             | -30.17         | -13.00     | H            |
| 17580.00       | -38.89                 | 3.30      | 12.80             | -29.39         | -13.00     | H            |
| 17838.57       | -40.17                 | 3.60      | 12.80             | -30.97         | -13.00     | H            |
| 17980.95       | -38.15                 | 3.20      | 12.80             | -28.55         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17000.95       | -43.48                 | 2.90      | 14.50             | -31.88         | -13.00     | H            |
| 17256.67       | -43.38                 | 3.20      | 14.50             | -32.08         | -13.00     | H            |
| 17447.62       | -41.99                 | 2.90      | 14.50             | -30.39         | -13.00     | H            |
| 17526.19       | -40.10                 | 2.90      | 12.80             | -30.20         | -13.00     | H            |
| 17706.67       | -40.67                 | 3.30      | 12.80             | -31.17         | -13.00     | H            |
| 17997.14       | -36.65                 | 3.20      | 12.80             | -27.05         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17137.14       | -43.23                 | 2.90      | 14.50             | -31.63         | -13.00     | H            |
| 17319.05       | -42.37                 | 3.20      | 14.50             | -31.07         | -13.00     | H            |
| 17486.19       | -42.08                 | 2.90      | 14.50             | -30.48         | -13.00     | H            |
| 17560.48       | -40.60                 | 2.90      | 12.80             | -30.70         | -13.00     | H            |
| 17777.62       | -39.98                 | 3.60      | 12.80             | -30.78         | -13.00     | H            |
| 17943.33       | -37.67                 | 3.20      | 12.80             | -28.07         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16918.57       | -45.69                 | 2.90      | 16.50             | -32.09         | -13.00     | H            |
| 17171.90       | -42.65                 | 2.90      | 14.50             | -31.05         | -13.00     | H            |
| 17491.90       | -41.77                 | 2.90      | 14.50             | -30.17         | -13.00     | H            |
| 17568.57       | -39.67                 | 3.30      | 12.80             | -30.17         | -13.00     | H            |
| 17710.95       | -40.75                 | 3.30      | 12.80             | -31.25         | -13.00     | H            |
| 17990.00       | -37.98                 | 3.20      | 12.80             | -28.38         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17001.43       | -43.16                 | 2.90      | 14.50             | -31.56         | -13.00     | H            |
| 17358.10       | -43.11                 | 3.20      | 14.50             | -31.81         | -13.00     | H            |
| 17492.38       | -41.85                 | 2.90      | 14.50             | -30.25         | -13.00     | H            |
| 17579.52       | -40.08                 | 3.30      | 12.80             | -30.58         | -13.00     | H            |
| 17832.38       | -40.31                 | 3.60      | 12.80             | -31.11         | -13.00     | H            |
| 17997.62       | -37.84                 | 3.20      | 12.80             | -28.24         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 7, 5 MHz, QPSK, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16937.62       | -55.35                 | 2.90      | 16.50             | -41.75         | -25.00     | H            |
| 17294.29       | -53.23                 | 3.20      | 14.50             | -41.93         | -25.00     | H            |
| 17461.90       | -51.81                 | 2.90      | 14.50             | -40.21         | -25.00     | H            |
| 17568.57       | -49.79                 | 3.30      | 12.80             | -40.29         | -25.00     | H            |
| 17837.62       | -49.69                 | 3.60      | 12.80             | -40.49         | -25.00     | H            |
| 17982.86       | -47.84                 | 3.20      | 12.80             | -38.24         | -25.00     | H            |

**LTE Band 7, 5 MHz, QPSK, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16960.48       | -55.18                 | 2.90      | 16.50             | -41.58         | -25.00     | H            |
| 17275.71       | -53.45                 | 3.20      | 14.50             | -42.15         | -25.00     | H            |
| 17497.62       | -52.04                 | 2.90      | 14.50             | -40.44         | -25.00     | H            |
| 17591.43       | -49.70                 | 3.30      | 12.80             | -40.20         | -25.00     | H            |
| 17833.33       | -49.91                 | 3.60      | 12.80             | -40.71         | -25.00     | H            |
| 17977.62       | -47.58                 | 3.20      | 12.80             | -37.98         | -25.00     | H            |

**LTE Band 7, 5 MHz, QPSK, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16992.38       | -54.85                 | 2.90      | 16.50             | -41.25         | -25.00     | H            |
| 17365.24       | -53.08                 | 3.20      | 14.50             | -41.78         | -25.00     | H            |
| 17516.19       | -49.95                 | 2.90      | 12.80             | -40.05         | -25.00     | H            |
| 17619.05       | -49.70                 | 3.30      | 12.80             | -40.20         | -25.00     | H            |
| 17821.43       | -49.93                 | 3.60      | 12.80             | -40.73         | -25.00     | H            |
| 17937.62       | -47.94                 | 3.20      | 12.80             | -38.34         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16992.38       | -55.13                 | 2.90      | 16.50             | -41.53         | -25.00     | H            |
| 17299.52       | -53.14                 | 3.20      | 14.50             | -41.84         | -25.00     | H            |
| 17450.95       | -51.69                 | 2.90      | 14.50             | -40.09         | -25.00     | H            |
| 17620.00       | -49.35                 | 3.30      | 12.80             | -39.85         | -25.00     | H            |
| 17831.90       | -50.02                 | 3.60      | 12.80             | -40.82         | -25.00     | H            |
| 17985.24       | -47.67                 | 3.20      | 12.80             | -38.07         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16935.71       | -55.27                 | 2.90      | 16.50             | -41.67         | -25.00     | H            |
| 17297.62       | -53.19                 | 3.20      | 14.50             | -41.89         | -25.00     | H            |
| 17450.00       | -51.68                 | 2.90      | 14.50             | -40.08         | -25.00     | H            |
| 17601.90       | -49.50                 | 3.30      | 12.80             | -40.00         | -25.00     | H            |
| 17837.14       | -49.64                 | 3.60      | 12.80             | -40.44         | -25.00     | H            |
| 17984.29       | -47.45                 | 3.20      | 12.80             | -37.85         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16988.10       | -54.64                 | 2.90      | 16.50             | -41.04         | -25.00     | H            |
| 17120.00       | -53.64                 | 2.90      | 14.50             | -42.04         | -25.00     | H            |
| 17521.90       | -50.10                 | 2.90      | 12.80             | -40.20         | -25.00     | H            |
| 17589.52       | -49.56                 | 3.30      | 12.80             | -40.06         | -25.00     | H            |
| 17830.95       | -49.91                 | 3.60      | 12.80             | -40.71         | -25.00     | H            |
| 17937.62       | -47.88                 | 3.20      | 12.80             | -38.28         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16980.48       | -55.04                 | 2.90      | 16.50             | -41.44         | -25.00     | H            |
| 17295.24       | -53.18                 | 3.20      | 14.50             | -41.88         | -25.00     | H            |
| 17505.24       | -50.13                 | 2.90      | 12.80             | -40.23         | -25.00     | H            |
| 17616.67       | -49.66                 | 3.30      | 12.80             | -40.16         | -25.00     | H            |
| 17820.00       | -50.09                 | 3.60      | 12.80             | -40.89         | -25.00     | H            |
| 17998.57       | -47.87                 | 3.20      | 12.80             | -38.27         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16976.67       | -55.12                 | 2.90      | 16.50             | -41.52         | -25.00     | H            |
| 17213.33       | -53.15                 | 2.90      | 14.50             | -41.55         | -25.00     | H            |
| 17523.33       | -49.74                 | 2.90      | 12.80             | -39.84         | -25.00     | H            |
| 17620.00       | -49.65                 | 3.30      | 12.80             | -40.15         | -25.00     | H            |
| 17839.05       | -49.79                 | 3.60      | 12.80             | -40.59         | -25.00     | H            |
| 17977.14       | -47.84                 | 3.20      | 12.80             | -38.24         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16927.14       | -55.13                 | 2.90      | 16.50             | -41.53         | -25.00     | H            |
| 17122.86       | -53.29                 | 2.90      | 14.50             | -41.69         | -25.00     | H            |
| 17458.10       | -51.51                 | 2.90      | 14.50             | -39.91         | -25.00     | H            |
| 17593.33       | -49.29                 | 3.30      | 12.80             | -39.79         | -25.00     | H            |
| 17836.19       | -49.58                 | 3.60      | 12.80             | -40.38         | -25.00     | H            |
| 17934.29       | -47.79                 | 3.20      | 12.80             | -38.19         | -25.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8481.38        | -52.27                 | 1.80      | 11.30             | -44.92        | -13.00     | V            |
| 9105.50        | -50.84                 | 2.20      | 11.60             | -43.59        | -13.00     | H            |
| 9306.00        | -50.21                 | 2.00      | 11.60             | -42.76        | -13.00     | H            |
| 9475.25        | -51.15                 | 2.10      | 11.60             | -43.80        | -13.00     | V            |
| 9744.88        | -50.83                 | 2.20      | 11.20             | -43.98        | -13.00     | H            |
| 9792.00        | -50.99                 | 2.30      | 11.20             | -44.24        | -13.00     | H            |

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8900.25        | -52.02                 | 1.90      | 12.00             | -44.07        | -13.00     | H            |
| 9112.50        | -51.83                 | 2.10      | 11.60             | -44.48        | -13.00     | H            |
| 9309.00        | -50.30                 | 2.00      | 11.60             | -42.85        | -13.00     | H            |
| 9472.63        | -51.37                 | 2.10      | 11.60             | -44.02        | -13.00     | V            |
| 9738.38        | -50.93                 | 2.20      | 11.20             | -44.08        | -13.00     | H            |
| 9810.38        | -50.73                 | 2.30      | 11.20             | -43.98        | -13.00     | H            |

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8526.75        | -51.77                 | 2.10      | 12.00             | -44.02        | -13.00     | H            |
| 9096.50        | -51.78                 | 2.20      | 11.60             | -44.53        | -13.00     | H            |
| 9299.38        | -50.47                 | 2.00      | 11.60             | -43.02        | -13.00     | H            |
| 9473.50        | -50.75                 | 2.10      | 11.60             | -43.40        | -13.00     | V            |
| 9719.00        | -50.23                 | 2.20      | 11.20             | -43.38        | -13.00     | H            |
| 9788.88        | -51.01                 | 2.30      | 11.20             | -44.26        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 16QAM, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7385.25        | -52.69                 | 1.70      | 12.00             | -44.54        | -13.00     | V            |
| 9093.13        | -50.98                 | 2.20      | 11.60             | -43.73        | -13.00     | H            |
| 9291.75        | -49.81                 | 2.00      | 11.60             | -42.36        | -13.00     | H            |
| 9476.13        | -50.36                 | 2.10      | 11.60             | -43.01        | -13.00     | V            |
| 9722.38        | -49.84                 | 2.20      | 11.20             | -42.99        | -13.00     | H            |
| 9788.63        | -50.62                 | 2.30      | 11.20             | -43.87        | -13.00     | H            |

**LTE Band 12, 1.4MHz 16QAM, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8340.75        | -51.38                 | 1.80      | 11.30             | -44.03        | -13.00     | H            |
| 8722.50        | -52.09                 | 2.00      | 12.00             | -44.24        | -13.00     | H            |
| 9106.50        | -51.41                 | 2.10      | 11.60             | -44.06        | -13.00     | H            |
| 9293.13        | -50.42                 | 2.00      | 11.60             | -42.97        | -13.00     | H            |
| 9474.88        | -50.54                 | 2.10      | 11.60             | -43.19        | -13.00     | V            |
| 9791.00        | -50.63                 | 2.30      | 11.20             | -43.88        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 16QAM, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7273.50        | -52.69                 | 1.90      | 12.00             | -44.74        | -13.00     | H            |
| 9095.88        | -51.71                 | 2.20      | 11.60             | -44.46        | -13.00     | H            |
| 9307.38        | -50.40                 | 2.00      | 11.60             | -42.95        | -13.00     | H            |
| 9475.13        | -50.47                 | 2.10      | 11.60             | -43.12        | -13.00     | V            |
| 9723.88        | -50.34                 | 2.20      | 11.20             | -43.49        | -13.00     | H            |
| 9796.00        | -50.74                 | 2.30      | 11.20             | -43.99        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 64QAM, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8427.00        | -51.76                 | 1.80      | 11.30             | -44.41        | -13.00     | H            |
| 8522.63        | -51.90                 | 2.10      | 12.00             | -44.15        | -13.00     | H            |
| 9301.75        | -50.53                 | 2.00      | 11.60             | -43.08        | -13.00     | H            |
| 9481.25        | -51.00                 | 2.10      | 11.60             | -43.65        | -13.00     | V            |
| 9749.25        | -50.97                 | 2.20      | 11.20             | -44.12        | -13.00     | H            |
| 9792.63        | -50.55                 | 2.30      | 11.20             | -43.80        | -13.00     | H            |

**LTE Band 12, 1.4MHz 64QAM, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7374.00        | -52.54                 | 1.70      | 12.00             | -44.39        | -13.00     | H            |
| 9101.00        | -51.88                 | 2.20      | 11.60             | -44.63        | -13.00     | H            |
| 9225.13        | -50.77                 | 2.10      | 11.60             | -43.42        | -13.00     | H            |
| 9475.25        | -50.77                 | 2.10      | 11.60             | -43.42        | -13.00     | V            |
| 9723.38        | -50.63                 | 2.20      | 11.20             | -43.78        | -13.00     | H            |
| 9783.25        | -51.02                 | 2.30      | 11.20             | -44.27        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 64QAM, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8430.75        | -51.99                 | 1.80      | 11.30             | -44.64        | -13.00     | V            |
| 9104.88        | -50.67                 | 2.20      | 11.60             | -43.42        | -13.00     | H            |
| 9298.25        | -50.27                 | 2.00      | 11.60             | -42.82        | -13.00     | H            |
| 9474.75        | -50.60                 | 2.10      | 11.60             | -43.25        | -13.00     | V            |
| 9722.38        | -49.63                 | 2.20      | 11.20             | -42.78        | -13.00     | H            |
| 9792.88        | -50.49                 | 2.30      | 11.20             | -43.74        | -13.00     | V            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8761.13        | -52.48                 | 1.90      | 12.00        | -44.53        | -13.00      | H            |
| 9101.50        | -51.20                 | 2.20      | 11.60        | -43.95        | -13.00      | H            |
| 9299.50        | -50.17                 | 2.00      | 11.60        | -42.72        | -13.00      | H            |
| 9473.25        | -50.06                 | 2.10      | 11.60        | -42.71        | -13.00      | V            |
| 9750.63        | -50.82                 | 2.20      | 11.20        | -43.97        | -13.00      | H            |
| 9933.63        | -51.28                 | 2.20      | 11.20        | -44.43        | -13.00      | V            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8484.75        | -52.17                 | 1.80      | 11.30        | -44.82        | -13.00      | H            |
| 9098.13        | -50.94                 | 2.20      | 11.60        | -43.69        | -13.00      | H            |
| 9298.75        | -50.04                 | 2.00      | 11.60        | -42.59        | -13.00      | H            |
| 9474.38        | -51.27                 | 2.10      | 11.60        | -43.92        | -13.00      | V            |
| 9744.50        | -50.71                 | 2.20      | 11.20        | -43.86        | -13.00      | H            |
| 9799.13        | -51.07                 | 2.30      | 11.20        | -44.32        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8419.50        | -52.22                 | 1.80      | 12.00        | -44.42        | -44.87      | -13.00       |
| 9100.38        | -50.99                 | 2.20      | 11.60        | -44.32        | -43.74      | -13.00       |
| 9295.50        | -50.16                 | 2.00      | 11.60        | -42.91        | -42.71      | -13.00       |
| 9473.63        | -50.65                 | 2.10      | 11.60        | -43.54        | -43.30      | -13.00       |
| 9733.75        | -51.14                 | 2.20      | 11.20        | -43.81        | -44.29      | -13.00       |
| 9794.38        | -50.68                 | 2.30      | 11.20        | -44.32        | -43.93      | -13.00       |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7256.25        | -52.55                 | 1.90      | 12.00        | -44.60        | -13.00      | H            |
| 8370.00        | -51.55                 | 1.80      | 11.60        | -44.20        | -13.00      | H            |
| 9098.38        | -51.65                 | 2.20      | 11.60        | -44.40        | -13.00      | H            |
| 9300.50        | -50.47                 | 2.00      | 11.60        | -43.02        | -13.00      | H            |
| 9474.38        | -50.82                 | 2.10      | 11.20        | -43.47        | -13.00      | V            |
| 9738.00        | -51.16                 | 2.20      | 11.20        | -44.31        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7198.13        | -52.64                 | 1.80      | 12.00        | -44.59        | -13.00      | V            |
| 9100.00        | -51.69                 | 2.20      | 11.60        | -44.44        | -13.00      | H            |
| 9304.00        | -49.87                 | 2.00      | 11.60        | -42.42        | -13.00      | H            |
| 9476.63        | -50.45                 | 2.10      | 11.60        | -43.10        | -13.00      | V            |
| 9675.38        | -50.66                 | 2.20      | 11.20        | -43.81        | -13.00      | H            |
| 9779.25        | -51.08                 | 2.30      | 11.20        | -44.33        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8786.63        | -52.19                 | 1.90      | 11.30        | -44.24        | -13.00      | H            |
| 9100.38        | -51.63                 | 2.20      | 11.60        | -44.38        | -13.00      | H            |
| 9307.25        | -50.93                 | 2.00      | 11.60        | -43.48        | -13.00      | H            |
| 9476.75        | -50.61                 | 2.10      | 11.60        | -43.26        | -13.00      | V            |
| 9736.50        | -50.52                 | 2.20      | 11.20        | -43.67        | -13.00      | H            |
| 9782.38        | -50.92                 | 2.30      | 11.20        | -44.17        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 2466.00        | -50.95                 | 0.90      | 9.80         | -44.20        | -13.00      | V            |
| 9106.63        | -51.32                 | 2.10      | 11.60        | -43.97        | -13.00      | H            |
| 9294.88        | -50.68                 | 2.00      | 11.60        | -43.23        | -13.00      | H            |
| 9474.63        | -50.99                 | 2.10      | 11.60        | -43.64        | -13.00      | V            |
| 9715.63        | -50.87                 | 2.20      | 11.20        | -44.02        | -13.00      | H            |
| 9828.00        | -50.48                 | 2.30      | 11.20        | -43.73        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8448.00        | -51.64                 | 1.80      | 11.30        | -44.29        | -13.00      | H            |
| 9105.50        | -51.60                 | 2.20      | 11.60        | -44.35        | -13.00      | H            |
| 9305.50        | -50.44                 | 2.00      | 11.60        | -42.99        | -13.00      | H            |
| 9419.13        | -50.98                 | 2.10      | 11.60        | -43.63        | -13.00      | H            |
| 9749.63        | -50.22                 | 2.20      | 11.20        | -43.37        | -13.00      | H            |
| 9790.25        | -50.20                 | 2.30      | 11.20        | -43.45        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8473.50        | -51.73                 | 1.80      | 11.30        | -44.38        | -13.00      | H            |
| 9105.25        | -51.60                 | 2.20      | 11.60        | -44.35        | -13.00      | H            |
| 9225.13        | -50.22                 | 2.10      | 11.60        | -42.87        | -13.00      | H            |
| 9473.25        | -50.26                 | 2.10      | 11.60        | -42.91        | -13.00      | V            |
| 9728.00        | -50.80                 | 2.20      | 11.20        | -43.95        | -13.00      | H            |
| 9787.50        | -51.35                 | 2.30      | 11.20        | -44.60        | -13.00      | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 4.92\text{dB}(30\text{MHz}-3\text{GHz})/4.88\text{dB}(3\text{GHz}-18\text{GHz})/5.66\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$



**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8749.13        | -51.81                 | 2.00      | 12.00             | -43.96        | -13.00     | H            |
| 9100.38        | -51.49                 | 2.20      | 11.60             | -44.24        | -13.00     | H            |
| 9299.88        | -50.46                 | 2.00      | 11.60             | -43.01        | -13.00     | H            |
| 9474.63        | -51.34                 | 2.10      | 11.60             | -43.99        | -13.00     | V            |
| 9726.13        | -50.13                 | 2.20      | 11.20             | -43.28        | -13.00     | H            |
| 9789.25        | -51.18                 | 2.30      | 11.20             | -44.43        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7959.00        | -52.05                 | 1.90      | 11.30             | -44.80        | -13.00     | H            |
| 9110.50        | -51.63                 | 2.10      | 11.60             | -44.28        | -13.00     | H            |
| 9300.63        | -49.78                 | 2.00      | 11.60             | -42.33        | -13.00     | H            |
| 9474.50        | -50.77                 | 2.10      | 11.60             | -43.42        | -13.00     | V            |
| 9739.25        | -50.29                 | 2.20      | 11.20             | -43.44        | -13.00     | H            |
| 9784.13        | -50.21                 | 2.30      | 11.20             | -43.46        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8718.38        | -52.27                 | 2.00      | 12.00             | -44.42        | -13.00     | V            |
| 9101.88        | -51.57                 | 2.20      | 11.60             | -44.32        | -13.00     | H            |
| 9218.88        | -50.26                 | 2.10      | 11.60             | -42.91        | -13.00     | H            |
| 9477.00        | -50.89                 | 2.10      | 11.60             | -43.54        | -13.00     | V            |
| 9734.63        | -50.66                 | 2.20      | 11.20             | -43.81        | -13.00     | H            |
| 9797.38        | -51.07                 | 2.30      | 11.20             | -44.32        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7196.25        | -52.88                 | 1.80      | 12.00             | -44.83        | -13.00     | V            |
| 9099.63        | -51.45                 | 2.20      | 11.60             | -44.20        | -13.00     | H            |
| 9306.25        | -51.00                 | 2.00      | 11.60             | -43.55        | -13.00     | H            |
| 9475.00        | -50.78                 | 2.10      | 11.60             | -43.43        | -13.00     | V            |
| 9722.38        | -50.94                 | 2.20      | 11.20             | -44.09        | -13.00     | H            |
| 9789.25        | -50.80                 | 2.30      | 11.20             | -44.05        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8586.75        | -52.51                 | 2.00      | 12.00             | -44.66        | -13.00     | H            |
| 9092.38        | -51.69                 | 2.20      | 11.60             | -44.44        | -13.00     | H            |
| 9222.25        | -50.22                 | 2.10      | 11.60             | -42.87        | -13.00     | H            |
| 9473.75        | -51.01                 | 2.10      | 11.60             | -43.66        | -13.00     | V            |
| 9724.25        | -50.73                 | 2.20      | 11.20             | -43.88        | -13.00     | H            |
| 9783.63        | -50.97                 | 2.30      | 11.20             | -44.22        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8418.75        | -51.96                 | 1.80      | 11.30             | -44.61        | -13.00     | H            |
| 9093.88        | -51.48                 | 2.20      | 11.60             | -44.23        | -13.00     | H            |
| 9226.13        | -50.29                 | 2.10      | 11.60             | -42.94        | -13.00     | H            |
| 9469.75        | -50.40                 | 2.10      | 11.60             | -43.05        | -13.00     | V            |
| 9724.00        | -51.01                 | 2.20      | 11.20             | -44.16        | -13.00     | H            |
| 9786.88        | -50.95                 | 2.30      | 11.20             | -44.20        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8389.13        | -51.70                 | 1.80      | 11.30             | -44.35        | -13.00     | V            |
| 9102.88        | -51.71                 | 2.20      | 11.60             | -44.46        | -13.00     | H            |
| 9301.25        | -50.68                 | 2.00      | 11.60             | -43.23        | -13.00     | H            |
| 9467.50        | -50.74                 | 2.10      | 11.60             | -43.39        | -13.00     | V            |
| 9751.50        | -50.66                 | 2.20      | 11.20             | -43.81        | -13.00     | H            |
| 9819.13        | -51.03                 | 2.30      | 11.20             | -44.28        | -13.00     | V            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8524.50        | -52.12                 | 2.10      | 12.00             | -44.37        | -13.00     | H            |
| 9098.63        | -50.56                 | 2.20      | 11.60             | -43.31        | -13.00     | H            |
| 9296.25        | -50.25                 | 2.00      | 11.60             | -42.80        | -13.00     | H            |
| 9419.00        | -50.67                 | 2.10      | 11.60             | -43.32        | -13.00     | H            |
| 9737.00        | -50.87                 | 2.20      | 11.20             | -44.02        | -13.00     | H            |
| 9792.63        | -51.32                 | 2.30      | 11.20             | -44.57        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8469.38        | -52.27                 | 1.80      | 11.30             | -44.92        | -13.00     | H            |
| 9096.88        | -51.21                 | 2.20      | 11.60             | -43.96        | -13.00     | H            |
| 9304.38        | -50.02                 | 2.00      | 11.60             | -42.57        | -13.00     | H            |
| 9475.88        | -50.58                 | 2.10      | 11.60             | -43.23        | -13.00     | V            |
| 9764.75        | -50.74                 | 2.30      | 11.20             | -43.99        | -13.00     | H            |
| 9880.50        | -50.83                 | 2.20      | 11.20             | -43.98        | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 41, 5MHz, QPSK, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16961.90       | -55.02                 | 2.90      | 16.50             | -41.42         | -25.00     | H            |
| 17134.76       | -53.65                 | 2.90      | 14.50             | -42.05         | -25.00     | H            |
| 17273.33       | -53.23                 | 3.20      | 14.50             | -41.93         | -25.00     | H            |
| 17523.33       | -49.64                 | 2.90      | 12.80             | -39.74         | -25.00     | H            |
| 17603.33       | -49.83                 | 3.30      | 12.80             | -40.33         | -25.00     | H            |
| 17833.33       | -50.07                 | 3.60      | 12.80             | -40.87         | -25.00     | H            |

**LTE Band 41, 5MHz, QPSK, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16995.24       | -55.25                 | 2.90      | 16.50             | -41.65         | -25.00     | H            |
| 17295.71       | -53.26                 | 3.20      | 14.50             | -41.96         | -25.00     | H            |
| 17457.14       | -51.24                 | 2.90      | 14.50             | -39.64         | -25.00     | H            |
| 17585.24       | -49.54                 | 3.30      | 12.80             | -40.04         | -25.00     | H            |
| 17840.00       | -50.07                 | 3.60      | 12.80             | -40.87         | -25.00     | H            |
| 17930.00       | -47.87                 | 3.20      | 12.80             | -38.27         | -25.00     | H            |

**LTE Band 41, 5MHz, QPSK, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16944.76       | -55.27                 | 2.90      | 16.50             | -41.67         | -25.00     | H            |
| 17299.05       | -53.25                 | 3.20      | 14.50             | -41.95         | -25.00     | H            |
| 17522.86       | -50.16                 | 2.90      | 12.80             | -40.26         | -25.00     | H            |
| 17592.38       | -49.56                 | 3.30      | 12.80             | -40.06         | -25.00     | H            |
| 17838.57       | -49.96                 | 3.60      | 12.80             | -40.76         | -25.00     | H            |
| 17964.29       | -47.99                 | 3.20      | 12.80             | -38.39         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16984.29       | -55.09                 | 2.90      | 16.50             | -41.49         | -25.00     | H            |
| 17295.24       | -53.20                 | 3.20      | 14.50             | -41.90         | -25.00     | H            |
| 17483.81       | -51.88                 | 2.90      | 14.50             | -40.28         | -25.00     | H            |
| 17622.38       | -49.30                 | 3.30      | 12.80             | -39.80         | -25.00     | H            |
| 17840.00       | -49.83                 | 3.60      | 12.80             | -40.63         | -25.00     | H            |
| 17978.10       | -47.76                 | 3.20      | 12.80             | -38.16         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16976.67       | -55.15                 | 2.90      | 16.50             | -41.55         | -25.00     | H            |
| 17299.05       | -53.10                 | 3.20      | 14.50             | -41.80         | -25.00     | H            |
| 17460.95       | -51.78                 | 2.90      | 14.50             | -40.18         | -25.00     | H            |
| 17528.10       | -50.14                 | 2.90      | 12.80             | -40.24         | -25.00     | H            |
| 17767.14       | -49.80                 | 3.60      | 12.80             | -40.60         | -25.00     | H            |
| 17955.71       | -47.86                 | 3.20      | 12.80             | -38.26         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16986.19       | -55.03                 | 2.90      | 16.50             | -41.43         | -25.00     | H            |
| 17353.33       | -53.36                 | 3.20      | 14.50             | -42.06         | -25.00     | H            |
| 17520.00       | -49.94                 | 2.90      | 12.80             | -40.04         | -25.00     | H            |
| 17526.19       | -49.59                 | 2.90      | 12.80             | -39.69         | -25.00     | H            |
| 17780.00       | -49.82                 | 3.60      | 12.80             | -40.62         | -25.00     | H            |
| 17931.90       | -47.75                 | 3.20      | 12.80             | -38.15         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16947.62       | -55.08                 | 2.90      | 16.50             | -41.48         | -25.00     | H            |
| 17291.90       | -53.22                 | 3.20      | 14.50             | -41.92         | -25.00     | H            |
| 17520.95       | -50.06                 | 2.90      | 12.80             | -40.16         | -25.00     | H            |
| 17615.71       | -49.50                 | 3.30      | 12.80             | -40.00         | -25.00     | H            |
| 17838.57       | -49.83                 | 3.60      | 12.80             | -40.63         | -25.00     | H            |
| 17990.48       | -47.58                 | 3.20      | 12.80             | -37.98         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16956.19       | -55.33                 | 2.90      | 16.50             | -41.73         | -25.00     | H            |
| 17285.24       | -53.33                 | 3.20      | 14.50             | -42.03         | -25.00     | H            |
| 17460.00       | -51.32                 | 2.90      | 14.50             | -39.72         | -25.00     | H            |
| 17579.05       | -49.40                 | 3.30      | 12.80             | -39.90         | -25.00     | H            |
| 17840.00       | -49.75                 | 3.60      | 12.80             | -40.55         | -25.00     | H            |
| 17948.10       | -47.71                 | 3.20      | 12.80             | -38.11         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16951.90       | -55.06                 | 2.90      | 16.50             | -41.46         | -25.00     | H            |
| 17360.95       | -53.43                 | 3.20      | 14.50             | -42.13         | -25.00     | H            |
| 17501.90       | -50.22                 | 2.90      | 12.80             | -40.32         | -25.00     | H            |
| 17598.10       | -49.77                 | 3.30      | 12.80             | -40.27         | -25.00     | H            |
| 17838.57       | -49.74                 | 3.60      | 12.80             | -40.54         | -25.00     | H            |
| 17977.62       | -47.75                 | 3.20      | 12.80             | -38.15         | -25.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$



**LTE Band 66, 1.4MHz QPSK, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16942.86       | -45.81                 | 2.90      | 16.50             | -32.21         | -13.00     | H            |
| 17349.52       | -43.16                 | 3.20      | 14.50             | -31.86         | -13.00     | H            |
| 17466.19       | -42.27                 | 2.90      | 14.50             | -30.67         | -13.00     | H            |
| 17600.95       | -39.35                 | 3.30      | 12.80             | -29.85         | -13.00     | H            |
| 17792.86       | -40.33                 | 3.60      | 12.80             | -31.13         | -13.00     | H            |
| 17930.00       | -37.61                 | 3.20      | 12.80             | -28.01         | -13.00     | H            |

**LTE Band 66, 1.4MHz, QPSK, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16946.19       | -45.42                 | 2.90      | 16.50             | -31.82         | -13.00     | H            |
| 17256.67       | -43.19                 | 3.20      | 14.50             | -31.89         | -13.00     | H            |
| 17501.43       | -39.96                 | 2.90      | 12.80             | -30.06         | -13.00     | H            |
| 17610.95       | -40.00                 | 3.30      | 12.80             | -30.50         | -13.00     | H            |
| 17830.95       | -39.81                 | 3.60      | 12.80             | -30.61         | -13.00     | H            |
| 17996.19       | -38.12                 | 3.20      | 12.80             | -28.52         | -13.00     | H            |

**LTE Band 66, 1.4MHz, QPSK, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16930.48       | -45.70                 | 2.90      | 16.50             | -32.10         | -13.00     | H            |
| 17163.33       | -44.10                 | 2.90      | 14.50             | -32.50         | -13.00     | H            |
| 17518.10       | -40.77                 | 2.90      | 12.80             | -30.87         | -13.00     | H            |
| 17547.62       | -40.64                 | 2.90      | 12.80             | -30.74         | -13.00     | H            |
| 17805.71       | -40.11                 | 3.60      | 12.80             | -30.91         | -13.00     | H            |
| 17968.57       | -38.44                 | 3.20      | 12.80             | -28.84         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16992.86       | -45.51                 | 2.90      | 16.50             | -31.91         | -13.00     | H            |
| 17285.71       | -43.54                 | 3.20      | 14.50             | -32.24         | -13.00     | H            |
| 17461.43       | -42.86                 | 2.90      | 14.50             | -31.26         | -13.00     | H            |
| 17531.43       | -40.74                 | 2.90      | 12.80             | -30.84         | -13.00     | H            |
| 17775.24       | -39.57                 | 3.60      | 12.80             | -30.37         | -13.00     | H            |
| 17991.90       | -38.27                 | 3.20      | 12.80             | -28.67         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17123.33       | -43.57                 | 2.90      | 14.50             | -31.97         | -13.00     | H            |
| 17326.19       | -44.03                 | 3.20      | 14.50             | -32.73         | -13.00     | H            |
| 17449.52       | -41.96                 | 2.90      | 14.50             | -30.36         | -13.00     | H            |
| 17628.57       | -39.93                 | 3.30      | 12.80             | -30.43         | -13.00     | H            |
| 17823.33       | -40.05                 | 3.60      | 12.80             | -30.85         | -13.00     | H            |
| 17991.90       | -37.92                 | 3.20      | 12.80             | -28.32         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16980.00       | -45.06                 | 2.90      | 16.50             | -31.46         | -13.00     | H            |
| 17238.57       | -43.16                 | 3.20      | 14.50             | -31.86         | -13.00     | H            |
| 17420.00       | -42.54                 | 2.90      | 14.50             | -30.94         | -13.00     | H            |
| 17526.19       | -40.19                 | 2.90      | 12.80             | -30.29         | -13.00     | H            |
| 17809.05       | -40.27                 | 3.60      | 12.80             | -31.07         | -13.00     | H            |
| 17966.67       | -38.44                 | 3.20      | 12.80             | -28.84         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17186.19       | -43.22                 | 2.90      | 14.50             | -31.62         | -13.00     | H            |
| 17250.95       | -42.98                 | 3.20      | 14.50             | -31.68         | -13.00     | H            |
| 17431.90       | -42.34                 | 2.90      | 14.50             | -30.74         | -13.00     | H            |
| 17528.57       | -40.44                 | 2.90      | 12.80             | -30.54         | -13.00     | H            |
| 17837.62       | -40.36                 | 3.60      | 12.80             | -31.16         | -13.00     | H            |
| 17948.57       | -37.95                 | 3.20      | 12.80             | -28.35         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16979.52       | -45.46                 | 2.90      | 16.50             | -31.86         | -13.00     | H            |
| 17368.10       | -43.25                 | 3.20      | 14.50             | -31.95         | -13.00     | H            |
| 17459.52       | -42.03                 | 2.90      | 14.50             | -30.43         | -13.00     | H            |
| 17596.19       | -39.75                 | 3.30      | 12.80             | -30.25         | -13.00     | H            |
| 17719.52       | -39.99                 | 3.30      | 12.80             | -30.49         | -13.00     | H            |
| 17926.67       | -37.15                 | 3.20      | 12.80             | -27.55         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16945.71       | -45.48                 | 2.90      | 16.50             | -31.88         | -13.00     | H            |
| 17353.81       | -44.02                 | 3.20      | 14.50             | -32.72         | -13.00     | H            |
| 17513.81       | -39.99                 | 2.90      | 12.80             | -30.09         | -13.00     | H            |
| 17599.05       | -39.14                 | 3.30      | 12.80             | -29.64         | -13.00     | H            |
| 17777.62       | -40.38                 | 3.60      | 12.80             | -31.18         | -13.00     | H            |
| 17997.14       | -38.00                 | 3.20      | 12.80             | -28.40         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**Lower antenna****LTE Band 2, 1.4MHz, QPSK, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16947.62       | -45.39                 | 2.90      | 16.50             | -31.79         | -13.00     | H            |
| 17227.14       | -43.50                 | 3.20      | 14.50             | -32.20         | -13.00     | H            |
| 17471.90       | -41.51                 | 2.90      | 14.50             | -29.91         | -13.00     | H            |
| 17596.19       | -40.23                 | 3.30      | 12.80             | -30.73         | -13.00     | H            |
| 17827.62       | -40.36                 | 3.60      | 12.80             | -31.16         | -13.00     | H            |
| 17990.00       | -38.42                 | 3.20      | 12.80             | -28.82         | -13.00     | H            |

**LTE Band 2, 1.4MHz, QPSK, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16935.71       | -45.10                 | 2.90      | 16.50             | -31.50         | -13.00     | H            |
| 17299.05       | -42.67                 | 3.20      | 14.50             | -31.37         | -13.00     | H            |
| 17476.19       | -41.58                 | 2.90      | 14.50             | -29.98         | -13.00     | H            |
| 17572.86       | -39.06                 | 3.30      | 12.80             | -29.56         | -13.00     | H            |
| 17822.86       | -40.39                 | 3.60      | 12.80             | -31.19         | -13.00     | H            |
| 17972.38       | -38.35                 | 3.20      | 12.80             | -28.75         | -13.00     | H            |

**LTE Band 2, 1.4MHz, QPSK, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16951.90       | -45.48                 | 2.90      | 16.50             | -31.88         | -13.00     | H            |
| 17358.10       | -43.34                 | 3.20      | 14.50             | -32.04         | -13.00     | H            |
| 17452.38       | -41.76                 | 2.90      | 14.50             | -30.16         | -13.00     | H            |
| 17592.86       | -40.11                 | 3.30      | 12.80             | -30.61         | -13.00     | H            |
| 17835.24       | -39.94                 | 3.60      | 12.80             | -30.74         | -13.00     | H            |
| 17973.33       | -38.51                 | 3.20      | 12.80             | -28.91         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16922.38       | -45.95                 | 2.90      | 16.50             | -32.35         | -13.00     | H            |
| 17273.33       | -43.42                 | 3.20      | 14.50             | -32.12         | -13.00     | H            |
| 17508.10       | -41.02                 | 2.90      | 12.80             | -31.12         | -13.00     | H            |
| 17569.52       | -39.09                 | 3.30      | 12.80             | -29.59         | -13.00     | H            |
| 17828.10       | -39.45                 | 3.60      | 12.80             | -30.25         | -13.00     | H            |
| 17983.81       | -37.44                 | 3.20      | 12.80             | -27.84         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17000.48       | -43.48                 | 2.90      | 14.50             | -31.88         | -13.00     | H            |
| 17115.71       | -43.64                 | 2.90      | 14.50             | -32.04         | -13.00     | H            |
| 17497.14       | -42.22                 | 2.90      | 14.50             | -30.62         | -13.00     | H            |
| 17541.43       | -40.19                 | 2.90      | 12.80             | -30.29         | -13.00     | H            |
| 17830.00       | -39.99                 | 3.60      | 12.80             | -30.79         | -13.00     | H            |
| 17945.24       | -38.57                 | 3.20      | 12.80             | -28.97         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 16QAM, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16957.14       | -45.42                 | 2.90      | 16.50             | -31.82         | -13.00     | H            |
| 17357.62       | -42.87                 | 3.20      | 14.50             | -31.57         | -13.00     | H            |
| 17503.81       | -40.35                 | 2.90      | 12.80             | -30.45         | -13.00     | H            |
| 17560.00       | -39.44                 | 2.90      | 12.80             | -29.54         | -13.00     | H            |
| 17833.33       | -40.59                 | 3.60      | 12.80             | -31.39         | -13.00     | H            |
| 17970.95       | -36.89                 | 3.20      | 12.80             | -27.29         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 18607**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17054.29       | -43.38                 | 2.90      | 14.50             | -31.78         | -13.00     | H            |
| 17230.95       | -43.47                 | 3.20      | 14.50             | -32.17         | -13.00     | H            |
| 17458.10       | -41.68                 | 2.90      | 14.50             | -30.08         | -13.00     | H            |
| 17596.19       | -39.33                 | 3.30      | 12.80             | -29.83         | -13.00     | H            |
| 17818.10       | -40.52                 | 3.60      | 12.80             | -31.32         | -13.00     | H            |
| 17981.43       | -37.88                 | 3.20      | 12.80             | -28.28         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 18900**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16959.05       | -45.90                 | 2.90      | 16.50             | -32.30         | -13.00     | H            |
| 17360.48       | -43.59                 | 3.20      | 14.50             | -32.29         | -13.00     | H            |
| 17506.67       | -40.03                 | 2.90      | 12.80             | -30.13         | -13.00     | H            |
| 17572.86       | -39.57                 | 3.30      | 12.80             | -30.07         | -13.00     | H            |
| 17698.10       | -39.95                 | 3.30      | 12.80             | -30.45         | -13.00     | H            |
| 17937.14       | -38.11                 | 3.20      | 12.80             | -28.51         | -13.00     | H            |

**LTE Band 2, 1.4MHz, 64QAM, Channel 19193**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16980.48       | -45.10                 | 2.90      | 16.50             | -31.50         | -13.00     | H            |
| 17224.29       | -43.38                 | 3.20      | 14.50             | -32.08         | -13.00     | H            |
| 17505.71       | -40.05                 | 2.90      | 12.80             | -30.15         | -13.00     | H            |
| 17586.67       | -39.13                 | 3.30      | 12.80             | -29.63         | -13.00     | H            |
| 17802.38       | -40.41                 | 3.60      | 12.80             | -31.21         | -13.00     | H            |
| 17938.57       | -38.38                 | 3.20      | 12.80             | -28.78         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 4, 1.4MHz QPSK, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16960.48       | -45.44                 | 2.90      | 16.50             | -31.84         | -13.00     | H            |
| 17335.71       | -43.26                 | 3.20      | 14.50             | -31.96         | -13.00     | H            |
| 17455.71       | -41.69                 | 2.90      | 14.50             | -30.09         | -13.00     | H            |
| 17533.81       | -40.31                 | 2.90      | 12.80             | -30.41         | -13.00     | H            |
| 17770.48       | -40.51                 | 3.60      | 12.80             | -31.31         | -13.00     | H            |
| 17930.48       | -38.40                 | 3.20      | 12.80             | -28.80         | -13.00     | H            |

**LTE Band 4, 1.4MHz, QPSK, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16959.52       | -45.14                 | 2.90      | 16.50             | -31.54         | -13.00     | H            |
| 17169.05       | -43.37                 | 2.90      | 14.50             | -31.77         | -13.00     | H            |
| 17465.71       | -42.44                 | 2.90      | 14.50             | -30.84         | -13.00     | H            |
| 17569.05       | -39.96                 | 3.30      | 12.80             | -30.46         | -13.00     | H            |
| 17769.52       | -40.36                 | 3.60      | 12.80             | -31.16         | -13.00     | H            |
| 17964.29       | -37.56                 | 3.20      | 12.80             | -27.96         | -13.00     | H            |

**LTE Band 4, 1.4MHz, QPSK, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16927.14       | -44.82                 | 2.90      | 16.50             | -31.22         | -13.00     | H            |
| 17257.62       | -43.59                 | 3.20      | 14.50             | -32.29         | -13.00     | H            |
| 17515.24       | -39.93                 | 2.90      | 12.80             | -30.03         | -13.00     | H            |
| 17526.67       | -41.10                 | 2.90      | 12.80             | -31.20         | -13.00     | H            |
| 17783.33       | -39.93                 | 3.60      | 12.80             | -30.73         | -13.00     | H            |
| 17997.62       | -37.47                 | 3.20      | 12.80             | -27.87         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16940.00       | -45.10                 | 2.90      | 16.50             | -31.50         | -13.00     | H            |
| 17211.90       | -43.44                 | 2.90      | 14.50             | -31.84         | -13.00     | H            |
| 17429.05       | -42.17                 | 2.90      | 14.50             | -30.57         | -13.00     | H            |
| 17590.48       | -39.34                 | 3.30      | 12.80             | -29.84         | -13.00     | H            |
| 17780.00       | -40.51                 | 3.60      | 12.80             | -31.31         | -13.00     | H            |
| 17998.57       | -38.44                 | 3.20      | 12.80             | -28.84         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16978.57       | -45.28                 | 2.90      | 16.50             | -31.68         | -13.00     | H            |
| 17098.10       | -43.96                 | 2.90      | 14.50             | -32.36         | -13.00     | H            |
| 17489.05       | -42.32                 | 2.90      | 14.50             | -30.72         | -13.00     | H            |
| 17574.76       | -39.97                 | 3.30      | 12.80             | -30.47         | -13.00     | H            |
| 17835.24       | -39.58                 | 3.60      | 12.80             | -30.38         | -13.00     | H            |
| 17911.43       | -37.74                 | 3.60      | 12.80             | -28.54         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 16QAM, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16946.19       | -45.82                 | 2.90      | 16.50             | -32.22         | -13.00     | H            |
| 17091.43       | -43.16                 | 2.90      | 14.50             | -31.56         | -13.00     | H            |
| 17437.14       | -41.75                 | 2.90      | 14.50             | -30.15         | -13.00     | H            |
| 17526.67       | -40.40                 | 2.90      | 12.80             | -30.50         | -13.00     | H            |
| 17773.33       | -39.87                 | 3.60      | 12.80             | -30.67         | -13.00     | H            |
| 17977.62       | -37.46                 | 3.20      | 12.80             | -27.86         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 19957**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16994.76       | -45.11                 | 2.90      | 16.50             | -31.51         | -13.00     | H            |
| 17299.52       | -43.76                 | 3.20      | 14.50             | -32.46         | -13.00     | H            |
| 17487.62       | -42.53                 | 2.90      | 14.50             | -30.93         | -13.00     | H            |
| 17601.43       | -39.61                 | 3.30      | 12.80             | -30.11         | -13.00     | H            |
| 17689.52       | -40.56                 | 3.30      | 12.80             | -31.06         | -13.00     | H            |
| 17969.05       | -38.06                 | 3.20      | 12.80             | -28.46         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 20175**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17090.95       | -43.46                 | 2.90      | 14.50             | -31.86         | -13.00     | H            |
| 17359.05       | -43.32                 | 3.20      | 14.50             | -32.02         | -13.00     | H            |
| 17499.05       | -41.51                 | 2.90      | 14.50             | -29.91         | -13.00     | H            |
| 17592.38       | -39.56                 | 3.30      | 12.80             | -30.06         | -13.00     | H            |
| 17806.67       | -39.55                 | 3.60      | 12.80             | -30.35         | -13.00     | H            |
| 17940.95       | -37.89                 | 3.20      | 12.80             | -28.29         | -13.00     | H            |

**LTE Band 4, 1.4MHz, 64QAM, Channel 20393**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16970.95       | -45.54                 | 2.90      | 16.50             | -31.94         | -13.00     | H            |
| 17150.48       | -43.72                 | 2.90      | 14.50             | -32.12         | -13.00     | H            |
| 17464.76       | -41.68                 | 2.90      | 14.50             | -30.08         | -13.00     | H            |
| 17590.48       | -40.58                 | 3.30      | 12.80             | -31.08         | -13.00     | H            |
| 17830.00       | -40.24                 | 3.60      | 12.80             | -31.04         | -13.00     | H            |
| 17986.19       | -38.42                 | 3.20      | 12.80             | -28.82         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 7, 5 MHz, QPSK, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16981.43       | -55.14                 | 2.90      | 16.50             | -41.54         | -25.00     | H            |
| 17368.10       | -52.95                 | 3.20      | 14.50             | -41.65         | -25.00     | H            |
| 17516.67       | -49.96                 | 2.90      | 12.80             | -40.06         | -25.00     | H            |
| 17526.19       | -49.69                 | 2.90      | 12.80             | -39.79         | -25.00     | H            |
| 17831.43       | -49.92                 | 3.60      | 12.80             | -40.72         | -25.00     | H            |
| 17958.10       | -47.60                 | 3.20      | 12.80             | -38.00         | -25.00     | H            |

**LTE Band 7, 5 MHz, QPSK, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16955.24       | -54.98                 | 2.90      | 16.50             | -41.38         | -25.00     | H            |
| 17285.24       | -53.11                 | 3.20      | 14.50             | -41.81         | -25.00     | H            |
| 17522.86       | -49.57                 | 2.90      | 12.80             | -39.67         | -25.00     | H            |
| 17605.24       | -49.36                 | 3.30      | 12.80             | -39.86         | -25.00     | H            |
| 17839.52       | -49.80                 | 3.60      | 12.80             | -40.60         | -25.00     | H            |
| 17990.48       | -47.49                 | 3.20      | 12.80             | -37.89         | -25.00     | H            |

**LTE Band 7, 5 MHz, QPSK, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16980.00       | -54.01                 | 2.90      | 16.50             | -40.41         | -25.00     | H            |
| 17368.10       | -52.72                 | 3.20      | 14.50             | -41.42         | -25.00     | H            |
| 17508.10       | -50.11                 | 2.90      | 12.80             | -40.21         | -25.00     | H            |
| 17620.48       | -49.36                 | 3.30      | 12.80             | -39.86         | -25.00     | H            |
| 17837.14       | -49.61                 | 3.60      | 12.80             | -40.41         | -25.00     | H            |
| 17988.57       | -47.49                 | 3.20      | 12.80             | -37.89         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16953.81       | -55.15                 | 2.90      | 16.50             | -41.55         | -25.00     | H            |
| 17277.62       | -52.89                 | 3.20      | 14.50             | -41.59         | -25.00     | H            |
| 17451.90       | -51.67                 | 2.90      | 14.50             | -40.07         | -25.00     | H            |
| 17525.24       | -49.36                 | 2.90      | 12.80             | -39.46         | -25.00     | H            |
| 17840.00       | -49.82                 | 3.60      | 12.80             | -40.62         | -25.00     | H            |
| 17996.67       | -47.69                 | 3.20      | 12.80             | -38.09         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16934.29       | -54.97                 | 2.90      | 16.50             | -41.37         | -25.00     | H            |
| 17296.19       | -52.77                 | 3.20      | 14.50             | -41.47         | -25.00     | H            |
| 17453.33       | -51.69                 | 2.90      | 14.50             | -40.09         | -25.00     | H            |
| 17617.14       | -49.45                 | 3.30      | 12.80             | -39.95         | -25.00     | H            |
| 17840.00       | -49.69                 | 3.60      | 12.80             | -40.49         | -25.00     | H            |
| 17978.10       | -47.67                 | 3.20      | 12.80             | -38.07         | -25.00     | H            |

**LTE Band 7, 5 MHz, 16QAM, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16933.81       | -54.88                 | 2.90      | 16.50             | -41.28         | -25.00     | H            |
| 17276.19       | -52.73                 | 3.20      | 14.50             | -41.43         | -25.00     | H            |
| 17517.14       | -49.87                 | 2.90      | 12.80             | -39.97         | -25.00     | H            |
| 17597.62       | -49.56                 | 3.30      | 12.80             | -40.06         | -25.00     | H            |
| 17836.19       | -49.79                 | 3.60      | 12.80             | -40.59         | -25.00     | H            |
| 17922.86       | -47.61                 | 3.20      | 12.80             | -38.01         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 20775**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16998.10       | -54.78                 | 2.90      | 16.50             | -41.18         | -25.00     | H            |
| 17343.33       | -52.77                 | 3.20      | 14.50             | -41.47         | -25.00     | H            |
| 17512.86       | -50.13                 | 2.90      | 12.80             | -40.23         | -25.00     | H            |
| 17623.33       | -49.37                 | 3.30      | 12.80             | -39.87         | -25.00     | H            |
| 17838.10       | -49.59                 | 3.60      | 12.80             | -40.39         | -25.00     | H            |
| 17997.14       | -47.56                 | 3.20      | 12.80             | -37.96         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 21100**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16947.14       | -54.88                 | 2.90      | 16.50             | -41.28         | -25.00     | H            |
| 17280.48       | -53.03                 | 3.20      | 14.50             | -41.73         | -25.00     | H            |
| 17509.05       | -50.05                 | 2.90      | 12.80             | -40.15         | -25.00     | H            |
| 17578.10       | -49.46                 | 3.30      | 12.80             | -39.96         | -25.00     | H            |
| 17835.71       | -49.53                 | 3.60      | 12.80             | -40.33         | -25.00     | H            |
| 17983.81       | -47.50                 | 3.20      | 12.80             | -37.90         | -25.00     | H            |

**LTE Band 7, 5 MHz, 64QAM, Channel 21425**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16973.33       | -54.89                 | 2.90      | 16.50             | -41.29         | -25.00     | H            |
| 17276.19       | -52.79                 | 3.20      | 14.50             | -41.49         | -25.00     | H            |
| 17456.19       | -51.39                 | 2.90      | 14.50             | -39.79         | -25.00     | H            |
| 17583.33       | -49.63                 | 3.30      | 12.80             | -40.13         | -25.00     | H            |
| 17839.52       | -49.35                 | 3.60      | 12.80             | -40.15         | -25.00     | H            |
| 17983.81       | -47.78                 | 3.20      | 12.80             | -38.18         | -25.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$



**LTE Band 12, 1.4MHz, QPSK, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7323.75        | -53.23                 | 1.70      | 12.00             | -45.08        | -13.00     | H            |
| 9096.13        | -51.36                 | 2.20      | 11.60             | -44.11        | -13.00     | H            |
| 9289.00        | -49.94                 | 2.10      | 11.60             | -42.59        | -13.00     | H            |
| 9477.75        | -50.97                 | 2.10      | 11.60             | -43.62        | -13.00     | V            |
| 9753.50        | -50.22                 | 2.20      | 11.20             | -43.37        | -13.00     | H            |
| 9805.25        | -51.33                 | 2.30      | 11.20             | -44.58        | -13.00     | H            |

**LTE Band 12, 1.4MHz, QPSK, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8462.25        | -51.43                 | 1.80      | 11.30             | -44.08        | -13.00     | H            |
| 9103.00        | -51.36                 | 2.20      | 11.60             | -44.11        | -13.00     | H            |
| 9291.25        | -50.46                 | 2.00      | 11.60             | -43.01        | -13.00     | H            |
| 9476.75        | -50.85                 | 2.10      | 11.60             | -43.50        | -13.00     | V            |
| 9734.63        | -50.89                 | 2.20      | 11.20             | -44.04        | -13.00     | H            |
| 9796.75        | -51.42                 | 2.30      | 11.20             | -44.67        | -13.00     | H            |

**LTE Band 12, 1.4MHz, QPSK, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7334.25        | -52.72                 | 1.70      | 12.00             | -44.57        | -13.00     | V            |
| 7862.25        | -52.07                 | 1.70      | 11.30             | -44.62        | -13.00     | H            |
| 9096.63        | -51.48                 | 2.20      | 11.60             | -44.23        | -13.00     | H            |
| 9307.63        | -50.50                 | 2.00      | 11.60             | -43.05        | -13.00     | H            |
| 9475.88        | -50.28                 | 2.10      | 11.60             | -42.93        | -13.00     | V            |
| 9736.25        | -50.94                 | 2.20      | 11.20             | -44.09        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 16QAM, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8844.00        | -53.02                 | 1.90      | 12.00             | -45.07        | -13.00     | V            |
| 9102.88        | -51.22                 | 2.20      | 11.60             | -43.97        | -13.00     | H            |
| 9299.13        | -50.04                 | 2.00      | 11.60             | -42.59        | -13.00     | H            |
| 9472.13        | -50.32                 | 2.10      | 11.60             | -42.97        | -13.00     | V            |
| 9733.25        | -50.50                 | 2.20      | 11.20             | -43.65        | -13.00     | H            |
| 9994.88        | -51.44                 | 2.20      | 11.20             | -44.59        | -13.00     | H            |

**LTE Band 12, 1.4MHz 16QAM, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7203.00        | -53.11                 | 1.80      | 12.00             | -45.06        | -13.00     | V            |
| 9097.38        | -50.87                 | 2.20      | 11.60             | -43.62        | -13.00     | H            |
| 9300.25        | -49.63                 | 2.00      | 11.60             | -42.18        | -13.00     | H            |
| 9475.00        | -50.43                 | 2.10      | 11.60             | -43.08        | -13.00     | V            |
| 9747.13        | -50.68                 | 2.20      | 11.20             | -43.83        | -13.00     | H            |
| 9804.50        | -50.94                 | 2.30      | 11.20             | -44.19        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 16QAM, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7206.00        | -52.94                 | 1.80      | 12.00             | -44.89        | -13.00     | H            |
| 9101.50        | -51.29                 | 2.20      | 11.60             | -44.04        | -13.00     | H            |
| 9301.88        | -50.40                 | 2.00      | 11.60             | -42.95        | -13.00     | H            |
| 9476.63        | -51.39                 | 2.10      | 11.60             | -44.04        | -13.00     | V            |
| 9731.13        | -51.02                 | 2.20      | 11.20             | -44.17        | -13.00     | H            |
| 9796.13        | -50.28                 | 2.30      | 11.20             | -43.53        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 64QAM, Channel 23017**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 7209.00        | -52.63                 | 1.80      | 12.00             | -44.58        | -13.00     | V            |
| 9098.63        | -51.75                 | 2.20      | 11.60             | -44.50        | -13.00     | H            |
| 9297.25        | -49.64                 | 2.00      | 11.60             | -42.19        | -13.00     | H            |
| 9475.25        | -50.99                 | 2.10      | 11.60             | -43.64        | -13.00     | V            |
| 9738.63        | -50.82                 | 2.20      | 11.20             | -43.97        | -13.00     | H            |
| 9799.88        | -51.34                 | 2.30      | 11.20             | -44.59        | -13.00     | H            |

**LTE Band 12, 1.4MHz 64QAM, Channel 23095**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8482.50        | -51.56                 | 1.80      | 11.30             | -44.21        | -13.00     | H            |
| 9102.50        | -51.59                 | 2.20      | 11.60             | -44.34        | -13.00     | H            |
| 9220.88        | -50.46                 | 2.10      | 11.60             | -43.11        | -13.00     | H            |
| 9424.38        | -50.58                 | 2.10      | 11.60             | -43.23        | -13.00     | H            |
| 9750.50        | -50.86                 | 2.20      | 11.20             | -44.01        | -13.00     | H            |
| 9796.75        | -51.19                 | 2.30      | 11.20             | -44.44        | -13.00     | H            |

**LTE Band 12, 1.4MHz, 64QAM, Channel 23173**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8453.63        | -52.38                 | 1.80      | 11.30             | -45.03        | -13.00     | H            |
| 9110.25        | -51.26                 | 2.10      | 11.60             | -43.91        | -13.00     | H            |
| 9303.63        | -49.97                 | 2.00      | 11.60             | -42.52        | -13.00     | H            |
| 9475.38        | -50.87                 | 2.10      | 11.60             | -43.52        | -13.00     | V            |
| 9748.75        | -50.74                 | 2.20      | 11.20             | -43.89        | -13.00     | H            |
| 9791.75        | -50.78                 | 2.30      | 11.20             | -44.03        | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7317.75        | -52.59                 | 1.70      | 12.00        | -44.44        | -13.00      | H            |
| 9089.00        | -51.74                 | 2.20      | 11.60        | -44.49        | -13.00      | H            |
| 9303.38        | -50.91                 | 2.00      | 11.60        | -43.46        | -13.00      | H            |
| 9474.25        | -50.65                 | 2.10      | 11.60        | -43.30        | -13.00      | V            |
| 9728.75        | -50.76                 | 2.20      | 11.20        | -43.91        | -13.00      | H            |
| 9797.63        | -50.62                 | 2.30      | 11.20        | -43.87        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7195.13        | -53.17                 | 1.80      | 12.00        | -45.12        | -13.00      | H            |
| 9106.25        | -51.07                 | 2.20      | 11.60        | -43.82        | -13.00      | H            |
| 9221.25        | -49.32                 | 2.10      | 11.60        | -41.97        | -13.00      | H            |
| 9472.63        | -50.54                 | 2.10      | 11.60        | -43.19        | -13.00      | V            |
| 9753.75        | -51.02                 | 2.20      | 11.20        | -44.17        | -13.00      | H            |
| 9806.38        | -51.20                 | 2.30      | 11.20        | -44.45        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, QPSK, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8465.63        | -52.18                 | 1.80      | 11.30        | -44.83        | -13.00      | H            |
| 9094.25        | -50.44                 | 2.20      | 11.60        | -43.19        | -13.00      | H            |
| 9302.50        | -50.26                 | 2.00      | 11.60        | -42.81        | -13.00      | H            |
| 9474.38        | -51.05                 | 2.10      | 11.60        | -43.70        | -13.00      | V            |
| 9719.50        | -50.72                 | 2.20      | 11.20        | -43.87        | -13.00      | H            |
| 9790.00        | -50.56                 | 2.30      | 11.20        | -43.81        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8426.63        | -52.14                 | 1.80      | 11.30        | -44.79        | -13.00      | H            |
| 9098.50        | -51.24                 | 2.20      | 11.60        | -43.99        | -13.00      | H            |
| 9302.13        | -50.15                 | 2.00      | 11.60        | -42.70        | -13.00      | H            |
| 9478.50        | -51.06                 | 2.10      | 11.60        | -43.71        | -13.00      | V            |
| 9730.75        | -50.91                 | 2.20      | 11.20        | -44.06        | -13.00      | H            |
| 9784.38        | -50.52                 | 2.30      | 11.20        | -43.77        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7180.13        | -52.83                 | 1.80      | 12.00        | -44.78        | -13.00      | H            |
| 9104.13        | -51.60                 | 2.20      | 11.60        | -44.35        | -13.00      | H            |
| 9294.13        | -49.86                 | 2.00      | 11.60        | -42.41        | -13.00      | H            |
| 9476.88        | -50.97                 | 2.10      | 11.60        | -43.62        | -13.00      | V            |
| 9740.00        | -50.56                 | 2.20      | 11.20        | -43.71        | -13.00      | H            |
| 9777.38        | -50.65                 | 2.30      | 11.20        | -43.90        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 16QAM, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7951.50        | -52.00                 | 1.90      | 11.30        | -44.75        | -13.00      | H            |
| 9109.25        | -51.06                 | 2.10      | 11.60        | -43.71        | -13.00      | H            |
| 9303.50        | -50.34                 | 2.00      | 11.60        | -42.89        | -13.00      | H            |
| 9424.75        | -50.39                 | 2.10      | 11.60        | -43.04        | -13.00      | H            |
| 9720.88        | -51.11                 | 2.20      | 11.20        | -44.26        | -13.00      | H            |
| 9786.75        | -51.42                 | 2.30      | 11.20        | -44.67        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26783**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8739.75        | -52.49                 | 2.00      | 12.00        | -44.64        | -13.00      | H            |
| 9097.88        | -51.14                 | 2.20      | 11.60        | -43.89        | -13.00      | H            |
| 9306.13        | -50.62                 | 2.00      | 11.60        | -43.17        | -13.00      | H            |
| 9474.75        | -50.83                 | 2.10      | 11.60        | -43.48        | -13.00      | V            |
| 9748.25        | -50.69                 | 2.20      | 11.20        | -43.84        | -13.00      | H            |
| 9780.50        | -51.32                 | 2.30      | 11.20        | -44.57        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26740**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 8473.50        | -51.02                 | 1.80      | 11.30        | -43.67        | -13.00      | H            |
| 9098.50        | -51.00                 | 2.20      | 11.60        | -43.75        | -13.00      | H            |
| 9298.88        | -49.87                 | 2.00      | 11.60        | -42.42        | -13.00      | H            |
| 9473.63        | -51.30                 | 2.10      | 11.60        | -43.95        | -13.00      | V            |
| 9733.50        | -50.15                 | 2.20      | 11.20        | -43.30        | -13.00      | H            |
| 9791.38        | -50.68                 | 2.30      | 11.20        | -43.93        | -13.00      | H            |

**LTE Band 26(814MHz-824MHz), 1.4MHz, 64QAM, Channel 26697**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain | Peak ERP(dBm) | Limit (dBm) | Polarization |
|----------------|------------------------|-----------|--------------|---------------|-------------|--------------|
| 7228.50        | -52.25                 | 1.80      | 12.00        | -44.20        | -13.00      | V            |
| 9099.50        | -51.60                 | 2.20      | 11.60        | -44.35        | -13.00      | H            |
| 9302.75        | -50.29                 | 2.00      | 11.60        | -42.84        | -13.00      | H            |
| 9471.25        | -50.67                 | 2.10      | 11.60        | -43.32        | -13.00      | V            |
| 9718.63        | -51.32                 | 2.20      | 11.20        | -44.47        | -13.00      | H            |
| 9956.88        | -50.94                 | 2.20      | 11.20        | -44.09        | -13.00      | V            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 4.92\text{dB}(30\text{MHz}-3\text{GHz})/4.88\text{dB}(3\text{GHz}-18\text{GHz})/5.66\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 2465.50        | -50.91                 | 0.90      | 9.80              | -44.16        | -13.00     | V            |
| 9093.88        | -51.41                 | 2.20      | 11.60             | -44.16        | -13.00     | H            |
| 9223.63        | -50.22                 | 2.10      | 11.60             | -42.87        | -13.00     | H            |
| 9337.13        | -51.45                 | 2.00      | 11.60             | -44.00        | -13.00     | V            |
| 9725.38        | -50.45                 | 2.20      | 11.20             | -43.60        | -13.00     | H            |
| 9803.50        | -50.83                 | 2.30      | 11.20             | -44.08        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8649.75        | -52.53                 | 2.00      | 12.00             | -44.68        | -13.00     | H            |
| 9097.25        | -51.31                 | 2.20      | 11.60             | -44.06        | -13.00     | H            |
| 9216.50        | -50.33                 | 2.10      | 11.60             | -42.98        | -13.00     | H            |
| 9474.38        | -50.15                 | 2.10      | 11.60             | -42.80        | -13.00     | V            |
| 9719.25        | -50.88                 | 2.20      | 11.20             | -44.03        | -13.00     | H            |
| 9790.75        | -51.43                 | 2.30      | 11.20             | -44.68        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, QPSK, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 1500.00        | -49.43                 | 0.70      | 8.10              | -44.18        | -13.00     | H            |
| 9103.25        | -51.01                 | 2.20      | 11.60             | -43.76        | -13.00     | H            |
| 9299.63        | -50.98                 | 2.00      | 11.60             | -43.53        | -13.00     | H            |
| 9471.50        | -50.27                 | 2.10      | 11.60             | -42.92        | -13.00     | V            |
| 9735.75        | -50.62                 | 2.20      | 11.20             | -43.77        | -13.00     | H            |
| 9806.88        | -51.12                 | 2.30      | 11.20             | -44.37        | -13.00     | H            |



**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8434.13        | -52.00                 | 1.80      | 11.30             | -44.65        | -13.00     | H            |
| 9100.13        | -51.43                 | 2.20      | 11.60             | -44.18        | -13.00     | H            |
| 9306.13        | -50.51                 | 2.00      | 11.60             | -43.06        | -13.00     | H            |
| 9476.88        | -50.75                 | 2.10      | 11.60             | -43.40        | -13.00     | V            |
| 9738.75        | -50.69                 | 2.20      | 11.20             | -43.84        | -13.00     | H            |
| 9795.38        | -50.90                 | 2.30      | 11.20             | -44.15        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8740.88        | -52.55                 | 2.00      | 12.00             | -44.70        | -13.00     | H            |
| 9097.63        | -50.81                 | 2.20      | 11.60             | -43.56        | -13.00     | H            |
| 9292.63        | -50.80                 | 2.00      | 11.60             | -43.35        | -13.00     | H            |
| 9423.13        | -50.41                 | 2.10      | 11.60             | -43.06        | -13.00     | H            |
| 9743.75        | -51.10                 | 2.20      | 11.20             | -44.25        | -13.00     | H            |
| 9794.13        | -50.34                 | 2.30      | 11.20             | -43.59        | -13.00     | V            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 16QAM, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8655.38        | -52.05                 | 2.00      | 12.00             | -44.20        | -13.00     | H            |
| 9097.50        | -50.54                 | 2.20      | 11.60             | -43.29        | -13.00     | H            |
| 9299.25        | -49.85                 | 2.00      | 11.60             | -42.40        | -13.00     | H            |
| 9476.50        | -50.68                 | 2.10      | 11.60             | -43.33        | -13.00     | V            |
| 9723.13        | -51.11                 | 2.20      | 11.20             | -44.26        | -13.00     | H            |
| 9796.50        | -51.29                 | 2.30      | 11.20             | -44.54        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 27033**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8741.25        | -52.73                 | 2.00      | 12.00             | -44.88        | -13.00     | V            |
| 9105.63        | -50.94                 | 2.20      | 11.60             | -43.69        | -13.00     | H            |
| 9299.00        | -49.59                 | 2.00      | 11.60             | -42.14        | -13.00     | H            |
| 9472.13        | -50.73                 | 2.10      | 11.60             | -43.38        | -13.00     | V            |
| 9737.75        | -51.05                 | 2.20      | 11.20             | -44.20        | -13.00     | H            |
| 9948.13        | -51.58                 | 2.20      | 11.20             | -44.73        | -13.00     | V            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26915**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 8467.13        | -52.13                 | 1.80      | 11.30             | -44.78        | -13.00     | V            |
| 9092.25        | -51.19                 | 2.20      | 11.60             | -43.94        | -13.00     | H            |
| 9302.25        | -50.56                 | 2.00      | 11.60             | -43.11        | -13.00     | H            |
| 9474.00        | -50.90                 | 2.10      | 11.60             | -43.55        | -13.00     | V            |
| 9744.13        | -50.72                 | 2.20      | 11.20             | -43.87        | -13.00     | H            |
| 9794.88        | -50.28                 | 2.30      | 11.20             | -43.53        | -13.00     | H            |

**LTE band 26(824MHz-849MHz), 1.4MHz, 64QAM, Channel 26797**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak ERP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|---------------|------------|--------------|
| 1500.00        | -49.31                 | 0.70      | 8.10              | -44.06        | -13.00     | H            |
| 8460.75        | -51.62                 | 1.80      | 11.30             | -44.27        | -13.00     | H            |
| 9301.88        | -50.37                 | 2.00      | 11.60             | -42.92        | -13.00     | H            |
| 9378.38        | -50.83                 | 2.00      | 11.60             | -43.38        | -13.00     | V            |
| 9742.63        | -49.85                 | 2.20      | 11.20             | -43.00        | -13.00     | H            |
| 9801.50        | -51.17                 | 2.30      | 11.20             | -44.42        | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 41, 5MHz, QPSK, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16962.86       | -54.01                 | 2.90      | 16.50             | -40.41         | -25.00     | H            |
| 17294.29       | -51.80                 | 3.20      | 14.50             | -40.50         | -25.00     | H            |
| 17410.00       | -50.69                 | 2.90      | 14.50             | -39.09         | -25.00     | H            |
| 17570.48       | -48.03                 | 3.30      | 12.80             | -38.53         | -25.00     | H            |
| 17818.57       | -48.57                 | 3.60      | 12.80             | -39.37         | -25.00     | H            |
| 17934.76       | -46.66                 | 3.20      | 12.80             | -37.06         | -25.00     | H            |

**LTE Band 41, 5MHz, QPSK, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16943.33       | -53.69                 | 2.90      | 16.50             | -40.09         | -25.00     | H            |
| 17291.90       | -51.65                 | 3.20      | 14.50             | -40.35         | -25.00     | H            |
| 17518.10       | -48.58                 | 2.90      | 12.80             | -38.68         | -25.00     | H            |
| 17624.76       | -47.76                 | 3.30      | 12.80             | -38.26         | -25.00     | H            |
| 17837.62       | -47.78                 | 3.60      | 12.80             | -38.58         | -25.00     | H            |
| 17995.24       | -46.21                 | 3.20      | 12.80             | -36.61         | -25.00     | H            |

**LTE Band 41, 5MHz, QPSK, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16943.81       | -54.36                 | 2.90      | 16.50             | -40.76         | -25.00     | H            |
| 17347.14       | -52.15                 | 3.20      | 14.50             | -40.85         | -25.00     | H            |
| 17507.14       | -49.44                 | 2.90      | 12.80             | -39.54         | -25.00     | H            |
| 17569.52       | -48.56                 | 3.30      | 12.80             | -39.06         | -25.00     | H            |
| 17837.14       | -48.85                 | 3.60      | 12.80             | -39.65         | -25.00     | H            |
| 17989.05       | -46.68                 | 3.20      | 12.80             | -37.08         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16999.52       | -55.14                 | 2.90      | 16.50             | -41.54         | -25.00     | H            |
| 17297.14       | -53.09                 | 3.20      | 14.50             | -41.79         | -25.00     | H            |
| 17523.81       | -49.94                 | 2.90      | 12.80             | -40.04         | -25.00     | H            |
| 17624.29       | -49.74                 | 3.30      | 12.80             | -40.24         | -25.00     | H            |
| 17839.05       | -49.67                 | 3.60      | 12.80             | -40.47         | -25.00     | H            |
| 17956.67       | -47.80                 | 3.20      | 12.80             | -38.20         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16954.29       | -55.02                 | 2.90      | 16.50             | -41.42         | -25.00     | H            |
| 17367.62       | -52.93                 | 3.20      | 14.50             | -41.63         | -25.00     | H            |
| 17459.52       | -51.65                 | 2.90      | 14.50             | -40.05         | -25.00     | H            |
| 17588.57       | -49.36                 | 3.30      | 12.80             | -39.86         | -25.00     | H            |
| 17840.00       | -49.68                 | 3.60      | 12.80             | -40.48         | -25.00     | H            |
| 17955.24       | -47.44                 | 3.20      | 12.80             | -37.84         | -25.00     | H            |

**LTE Band 41, 5MHz, 16QAM, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16961.90       | -54.50                 | 2.90      | 16.50             | -40.90         | -25.00     | H            |
| 17293.81       | -52.43                 | 3.20      | 14.50             | -41.13         | -25.00     | H            |
| 17510.00       | -49.62                 | 2.90      | 12.80             | -39.72         | -25.00     | H            |
| 17590.48       | -48.80                 | 3.30      | 12.80             | -39.30         | -25.00     | H            |
| 17795.71       | -49.29                 | 3.60      | 12.80             | -40.09         | -25.00     | H            |
| 17979.05       | -46.78                 | 3.20      | 12.80             | -37.18         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 40065**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16978.10       | -54.94                 | 2.90      | 16.50             | -41.34         | -25.00     | H            |
| 17295.71       | -53.12                 | 3.20      | 14.50             | -41.82         | -25.00     | H            |
| 17507.62       | -49.93                 | 2.90      | 12.80             | -40.03         | -25.00     | H            |
| 17620.00       | -49.49                 | 3.30      | 12.80             | -39.99         | -25.00     | H            |
| 17840.00       | -49.87                 | 3.60      | 12.80             | -40.67         | -25.00     | H            |
| 17935.71       | -47.58                 | 3.20      | 12.80             | -37.98         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 40640**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16942.38       | -54.84                 | 2.90      | 16.50             | -41.24         | -25.00     | H            |
| 17271.43       | -52.84                 | 3.20      | 14.50             | -41.54         | -25.00     | H            |
| 17456.19       | -51.72                 | 2.90      | 14.50             | -40.12         | -25.00     | H            |
| 17624.76       | -49.48                 | 3.30      | 12.80             | -39.98         | -25.00     | H            |
| 17840.00       | -49.85                 | 3.60      | 12.80             | -40.65         | -25.00     | H            |
| 17994.76       | -47.71                 | 3.20      | 12.80             | -38.11         | -25.00     | H            |

**LTE Band 41, 5MHz, 64QAM, Channel 41215**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16952.38       | -54.72                 | 2.90      | 16.50             | -41.12         | -25.00     | H            |
| 17294.29       | -52.80                 | 3.20      | 14.50             | -41.50         | -25.00     | H            |
| 17501.43       | -50.07                 | 2.90      | 12.80             | -40.17         | -25.00     | H            |
| 17596.67       | -49.47                 | 3.30      | 12.80             | -39.97         | -25.00     | H            |
| 17834.29       | -49.57                 | 3.60      | 12.80             | -40.37         | -25.00     | H            |
| 17996.67       | -47.89                 | 3.20      | 12.80             | -38.29         | -25.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$

**LTE Band 66, 1.4MHz QPSK, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16961.43       | -45.04                 | 2.90      | 16.50             | -31.44         | -13.00     | H            |
| 17361.43       | -42.89                 | 3.20      | 14.50             | -31.59         | -13.00     | H            |
| 17457.62       | -41.45                 | 2.90      | 14.50             | -29.85         | -13.00     | H            |
| 17528.10       | -40.57                 | 2.90      | 12.80             | -30.67         | -13.00     | H            |
| 17771.43       | -39.16                 | 3.60      | 12.80             | -29.96         | -13.00     | H            |
| 17954.76       | -37.94                 | 3.20      | 12.80             | -28.34         | -13.00     | H            |

**LTE Band 66, 1.4MHz, QPSK, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16966.19       | -45.02                 | 2.90      | 16.50             | -31.42         | -13.00     | H            |
| 17360.48       | -43.30                 | 3.20      | 14.50             | -32.00         | -13.00     | H            |
| 17451.90       | -41.92                 | 2.90      | 14.50             | -30.32         | -13.00     | H            |
| 17627.62       | -39.64                 | 3.30      | 12.80             | -30.14         | -13.00     | H            |
| 17810.48       | -39.31                 | 3.60      | 12.80             | -30.11         | -13.00     | H            |
| 18000.00       | -31.64                 | 3.20      | 6.20              | -28.64         | -13.00     | H            |

**LTE Band 66, 1.4MHz, QPSK, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16976.19       | -44.96                 | 2.90      | 16.50             | -31.36         | -13.00     | H            |
| 17349.52       | -42.54                 | 3.20      | 14.50             | -31.24         | -13.00     | H            |
| 17432.38       | -42.29                 | 2.90      | 14.50             | -30.69         | -13.00     | H            |
| 17585.71       | -38.91                 | 3.30      | 12.80             | -29.41         | -13.00     | H            |
| 17839.52       | -40.49                 | 3.60      | 12.80             | -31.29         | -13.00     | H            |
| 17993.33       | -38.44                 | 3.20      | 12.80             | -28.84         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16964.76       | -45.54                 | 2.90      | 16.50             | -31.94         | -13.00     | H            |
| 17110.48       | -43.94                 | 2.90      | 14.50             | -32.34         | -13.00     | H            |
| 17522.38       | -40.37                 | 2.90      | 12.80             | -30.47         | -13.00     | H            |
| 17592.38       | -39.11                 | 3.30      | 12.80             | -29.61         | -13.00     | H            |
| 17782.38       | -40.42                 | 3.60      | 12.80             | -31.22         | -13.00     | H            |
| 17972.86       | -38.62                 | 3.20      | 12.80             | -29.02         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16992.86       | -45.58                 | 2.90      | 16.50             | -31.98         | -13.00     | H            |
| 17307.62       | -42.72                 | 3.20      | 14.50             | -31.42         | -13.00     | H            |
| 17432.38       | -42.20                 | 2.90      | 14.50             | -30.60         | -13.00     | H            |
| 17628.57       | -40.08                 | 3.30      | 12.80             | -30.58         | -13.00     | H            |
| 17781.43       | -40.70                 | 3.60      | 12.80             | -31.50         | -13.00     | H            |
| 17983.81       | -38.03                 | 3.20      | 12.80             | -28.43         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 16QAM, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16987.14       | -44.99                 | 2.90      | 16.50             | -31.39         | -13.00     | H            |
| 17117.62       | -43.45                 | 2.90      | 14.50             | -31.85         | -13.00     | H            |
| 17517.62       | -40.58                 | 2.90      | 12.80             | -30.68         | -13.00     | H            |
| 17599.05       | -39.62                 | 3.30      | 12.80             | -30.12         | -13.00     | H            |
| 17773.81       | -40.56                 | 3.60      | 12.80             | -31.36         | -13.00     | H            |
| 17940.48       | -38.31                 | 3.20      | 12.80             | -28.71         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 131979**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16936.19       | -45.82                 | 2.90      | 16.50             | -32.22         | -13.00     | H            |
| 17256.19       | -43.30                 | 3.20      | 14.50             | -32.00         | -13.00     | H            |
| 17510.95       | -40.73                 | 2.90      | 12.80             | -30.83         | -13.00     | H            |
| 17595.71       | -40.24                 | 3.30      | 12.80             | -30.74         | -13.00     | H            |
| 17821.90       | -39.97                 | 3.60      | 12.80             | -30.77         | -13.00     | H            |
| 17966.19       | -38.08                 | 3.20      | 12.80             | -28.48         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 132322**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 16957.62       | -45.37                 | 2.90      | 16.50             | -31.77         | -13.00     | H            |
| 17299.52       | -43.20                 | 3.20      | 14.50             | -31.90         | -13.00     | H            |
| 17489.05       | -41.81                 | 2.90      | 14.50             | -30.21         | -13.00     | H            |
| 17594.29       | -40.15                 | 3.30      | 12.80             | -30.65         | -13.00     | H            |
| 17831.43       | -40.56                 | 3.60      | 12.80             | -31.36         | -13.00     | H            |
| 17998.57       | -37.52                 | 3.20      | 12.80             | -27.92         | -13.00     | H            |

**LTE Band 66, 1.4MHz, 64QAM, Channel 132665**

| Frequency(MHz) | P <sub>Mea</sub> (dBm) | Path Loss | Antenna Gain(dBi) | Peak EIRP(dBm) | Limit(dBm) | Polarization |
|----------------|------------------------|-----------|-------------------|----------------|------------|--------------|
| 17095.71       | -42.95                 | 2.90      | 14.50             | -31.35         | -13.00     | H            |
| 17337.14       | -43.47                 | 3.20      | 14.50             | -32.17         | -13.00     | H            |
| 17476.19       | -42.14                 | 2.90      | 14.50             | -30.54         | -13.00     | H            |
| 17549.52       | -40.20                 | 2.90      | 12.80             | -30.30         | -13.00     | H            |
| 17792.86       | -40.52                 | 3.60      | 12.80             | -31.32         | -13.00     | H            |
| 17991.90       | -38.27                 | 3.20      | 12.80             | -28.67         | -13.00     | H            |

Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 2.87\text{dB}(30\text{MHz}-3\text{GHz})/3.35\text{dB}(3\text{GHz}-18\text{GHz})/2.68\text{dB}(18\text{GHz}-40\text{GHz})$ ,  $k = 2$



### **A.3 FREQUENCY STABILITY**

#### **Reference**

FCC: CFR Part 2.1055, 22.355, 24.235, 27.54, 90.213.

#### **A.3.1 Method of Measurement**

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on mid channel of PCS 1900 and GSM850, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

#### **A.3.2 Measurement Limit**

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d) (2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.6V and 4.45V, with a nominal voltage of 3.87V. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance from -10% to 15%. For the purposes of measuring frequency stability these voltage limits are to be used.

### A.3.3 Measurement results

#### LTE Band 2, 1.4MHz bandwidth (worst case of all bandwidths)

##### Frequency Error vs Voltage

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | 33                   | 29    | 23    | 0.018                 | 0.015 | 0.012 |
| 3.87           | 42                   | 38    | 51    | 0.022                 | 0.020 | 0.027 |
| 4.45           | 26                   | 42    | 43    | 0.014                 | 0.022 | 0.023 |

##### Frequency Error vs Temperature

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | 26                   | 35    | 28    | 0.014                 | 0.019 | 0.015 |
| -20                 | 45                   | 44    | 16    | 0.024                 | 0.023 | 0.009 |
| -10                 | 39                   | 24    | 29    | 0.021                 | 0.013 | 0.015 |
| 0                   | 41                   | 26    | 39    | 0.022                 | 0.014 | 0.021 |
| 10                  | 22                   | 31    | 26    | 0.012                 | 0.016 | 0.014 |
| 20                  | 38                   | 33    | 28    | 0.020                 | 0.018 | 0.015 |
| 30                  | 31                   | 38    | 42    | 0.016                 | 0.020 | 0.022 |
| 40                  | 27                   | 39    | 35    | 0.014                 | 0.021 | 0.019 |
| 50                  | 25                   | 29    | 19    | 0.013                 | 0.015 | 0.010 |

Expanded measurement uncertainty is 10 Hz,  $k = 2$

#### LTE Band 4, 1.4MHz bandwidth (worst case of all bandwidths)

##### Frequency Error vs Voltage

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | 28                   | 24    | 25    | 0.016                 | 0.014 | 0.014 |
| 3.87           | 26                   | 33    | 16    | 0.015                 | 0.019 | 0.009 |
| 4.45           | 39                   | 27    | 38    | 0.023                 | 0.016 | 0.022 |

##### Frequency Error vs Temperature

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | 22                   | 37    | 29    | 0.013                 | 0.021 | 0.017 |
| -20                 | 47                   | 24    | 29    | 0.027                 | 0.014 | 0.017 |
| -10                 | 18                   | 33    | 16    | 0.010                 | 0.019 | 0.009 |
| 0                   | 22                   | 26    | 24    | 0.013                 | 0.015 | 0.014 |
| 10                  | 31                   | 18    | 28    | 0.018                 | 0.010 | 0.016 |
| 20                  | 35                   | 28    | 37    | 0.020                 | 0.016 | 0.021 |
| 30                  | 29                   | 22    | 35    | 0.017                 | 0.013 | 0.020 |
| 40                  | 26                   | 16    | 22    | 0.015                 | 0.009 | 0.013 |
| 50                  | 35                   | 31    | 46    | 0.020                 | 0.018 | 0.027 |

Expanded measurement uncertainty is 10Hz,  $k = 2$

**LTE Band 7, 5MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Voltage**

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | -22                  | -29   | -22   | 0.009                 | 0.011 | 0.009 |
| 3.87           | -15                  | 18    | -27   | 0.006                 | 0.007 | 0.011 |
| 4.45           | -26                  | -25   | 18    | 0.010                 | 0.010 | 0.007 |

**Frequency Error vs Temperature**

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | -30                  | -21   | -36   | 0.012                 | 0.008 | 0.014 |
| -20                 | 26                   | 21    | -25   | 0.010                 | 0.008 | 0.010 |
| -10                 | -29                  | -18   | -27   | 0.011                 | 0.007 | 0.011 |
| 0                   | -25                  | -27   | 18    | 0.010                 | 0.011 | 0.007 |
| 10                  | -34                  | 26    | -16   | 0.013                 | 0.010 | 0.006 |
| 20                  | 18                   | -34   | -24   | 0.007                 | 0.013 | 0.009 |
| 30                  | -16                  | -15   | -28   | 0.006                 | 0.006 | 0.011 |
| 40                  | -25                  | -33   | 23    | 0.010                 | 0.013 | 0.009 |
| 50                  | 24                   | 29    | -37   | 0.009                 | 0.011 | 0.015 |

Expanded measurement uncertainty is 10 Hz,  $k = 2$ 
**LTE Band 12, 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Voltage**

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | -28                  | -26   | -17   | 0.040                 | 0.037 | 0.024 |
| 3.87           | -15                  | -34   | -18   | 0.021                 | 0.048 | 0.025 |
| 4.45           | -22                  | -27   | -24   | 0.031                 | 0.038 | 0.034 |

**Frequency Error vs Temperature**

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | -19                  | -21   | -24   | 0.027                 | 0.030 | 0.034 |
| -20                 | -23                  | -25   | -24   | 0.033                 | 0.035 | 0.034 |
| -10                 | -26                  | -27   | -28   | 0.037                 | 0.038 | 0.040 |
| 0                   | -27                  | -19   | -19   | 0.038                 | 0.027 | 0.027 |
| 10                  | -18                  | -18   | -13   | 0.025                 | 0.025 | 0.018 |
| 20                  | -26                  | -25   | -26   | 0.037                 | 0.035 | 0.037 |
| 30                  | -31                  | -36   | -27   | 0.044                 | 0.051 | 0.038 |
| 40                  | -34                  | -41   | -33   | 0.048                 | 0.058 | 0.047 |
| 50                  | -28                  | -28   | -9    | 0.040                 | 0.040 | 0.013 |

Expanded measurement uncertainty is 10Hz,  $k = 2$ 
**LTE Band 26(814MHz-824MHz), 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Voltage**

| Voltage | Frequency error (Hz) | Frequency error (ppm) |
|---------|----------------------|-----------------------|
|---------|----------------------|-----------------------|

| (V)  | QPSK | 16QAM | 64QAM | QPSK  | 16QAM | 64QAM |
|------|------|-------|-------|-------|-------|-------|
| 3.60 | 12   | 13    | 19    | 0.015 | 0.016 | 0.023 |
| 3.87 | 20   | 16    | 24    | 0.024 | 0.020 | 0.029 |
| 4.45 | 31   | 22    | 29    | 0.038 | 0.027 | 0.035 |

#### Frequency Error vs Temperature

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | 18                   | 25    | 22    | 0.022                 | 0.031 | 0.027 |
| -20                 | 27                   | 33    | 20    | 0.033                 | 0.040 | 0.024 |
| -10                 | 14                   | 15    | 27    | 0.017                 | 0.018 | 0.033 |
| 0                   | 16                   | 28    | 15    | 0.020                 | 0.034 | 0.018 |
| 10                  | 21                   | 16    | 18    | 0.026                 | 0.020 | 0.022 |
| 20                  | 10                   | 17    | 16    | 0.012                 | 0.021 | 0.020 |
| 30                  | 25                   | 24    | 11    | 0.031                 | 0.029 | 0.013 |
| 40                  | 36                   | 23    | 24    | 0.044                 | 0.028 | 0.029 |
| 50                  | 40                   | 29    | 29    | 0.049                 | 0.035 | 0.035 |

Expanded measurement uncertainty is 10Hz, k = 2

#### LTE band 26(824MHz-849MHz), 1.4MHz bandwidth (worst case of all bandwidths)

#### Frequency Error vs Voltage

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | 28                   | 25    | 18    | 0.033                 | 0.030 | 0.022 |
| 3.87           | 15                   | 20    | 14    | 0.018                 | 0.024 | 0.017 |
| 4.45           | 17                   | 31    | 26    | 0.020                 | 0.037 | 0.031 |

#### Frequency Error vs Temperature

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | 19                   | 20    | 24    | 0.023                 | 0.024 | 0.029 |
| -20                 | 10                   | 30    | 10    | 0.012                 | 0.036 | 0.012 |
| -10                 | 14                   | 25    | 15    | 0.017                 | 0.030 | 0.018 |
| 0                   | 15                   | 26    | 17    | 0.018                 | 0.031 | 0.020 |
| 10                  | 18                   | 27    | 22    | 0.022                 | 0.032 | 0.026 |
| 20                  | 20                   | 18    | 16    | 0.024                 | 0.022 | 0.019 |
| 30                  | 26                   | 11    | 13    | 0.031                 | 0.013 | 0.016 |
| 40                  | 23                   | 16    | 11    | 0.027                 | 0.019 | 0.013 |
| 50                  | 24                   | 19    | 29    | 0.029                 | 0.023 | 0.035 |

Expanded measurement uncertainty is 10Hz, k = 2

**LTE Band 41, 5MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Voltage**

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | 22                   | 23    | 11    | 0.008                 | 0.009 | 0.004 |
| 3.87           | 15                   | 30    | 26    | 0.006                 | 0.012 | 0.010 |
| 4.45           | 28                   | 26    | 22    | 0.011                 | 0.010 | 0.008 |

**Frequency Error vs Temperature**

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | -26                  | 15    | 21    | 0.010                 | 0.006 | 0.008 |
| -20                 | 24                   | 31    | 13    | 0.009                 | 0.012 | 0.005 |
| -10                 | 30                   | 33    | 14    | 0.012                 | 0.013 | 0.005 |
| 0                   | 16                   | 25    | 27    | 0.006                 | 0.010 | 0.010 |
| 10                  | 25                   | 21    | 34    | 0.010                 | 0.008 | 0.013 |
| 20                  | 18                   | 26    | 18    | 0.007                 | 0.010 | 0.007 |
| 30                  | 17                   | 24    | 29    | 0.007                 | 0.009 | 0.011 |
| 40                  | 29                   | 31    | 26    | 0.011                 | 0.012 | 0.010 |
| 50                  | 23                   | 12    | 35    | 0.009                 | 0.005 | 0.013 |

Expanded measurement uncertainty is 10 Hz,  $k = 2$ 
**LTE Band 66, 1.4MHz bandwidth (worst case of all bandwidths)**
**Frequency Error vs Voltage**

| Voltage<br>(V) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|----------------|----------------------|-------|-------|-----------------------|-------|-------|
|                | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| 3.60           | 28                   | 10    | 31    | 0.016                 | 0.006 | 0.018 |
| 3.87           | 15                   | 20    | 25    | 0.009                 | 0.011 | 0.014 |
| 4.45           | 35                   | 26    | 16    | 0.020                 | 0.015 | 0.009 |

**Frequency Error vs Temperature**

| Temperature<br>(°C) | Frequency error (Hz) |       |       | Frequency error (ppm) |       |       |
|---------------------|----------------------|-------|-------|-----------------------|-------|-------|
|                     | QPSK                 | 16QAM | 64QAM | QPSK                  | 16QAM | 64QAM |
| -30                 | 27                   | 30    | 33    | 0.015                 | 0.017 | 0.019 |
| -20                 | 33                   | 25    | 23    | 0.019                 | 0.014 | 0.013 |
| -10                 | 26                   | 30    | 26    | 0.015                 | 0.017 | 0.015 |
| 0                   | 24                   | 24    | 15    | 0.014                 | 0.014 | 0.009 |
| 10                  | 18                   | 41    | 18    | 0.010                 | 0.023 | 0.010 |
| 20                  | 20                   | 31    | 16    | 0.011                 | 0.018 | 0.009 |
| 30                  | 25                   | 36    | 17    | 0.014                 | 0.021 | 0.010 |
| 40                  | 19                   | 22    | 28    | 0.011                 | 0.013 | 0.016 |
| 50                  | 35                   | 27    | 22    | 0.020                 | 0.015 | 0.013 |

Expanded measurement uncertainty is 10 Hz,  $k = 2$

## A.4 OCCUPIED BANDWIDTH

### Reference

FCC: CFR Part 2.1049, 22.917, 24.238, 27.53, 90.1215.

### A.4.1 Occupied Bandwidth Results

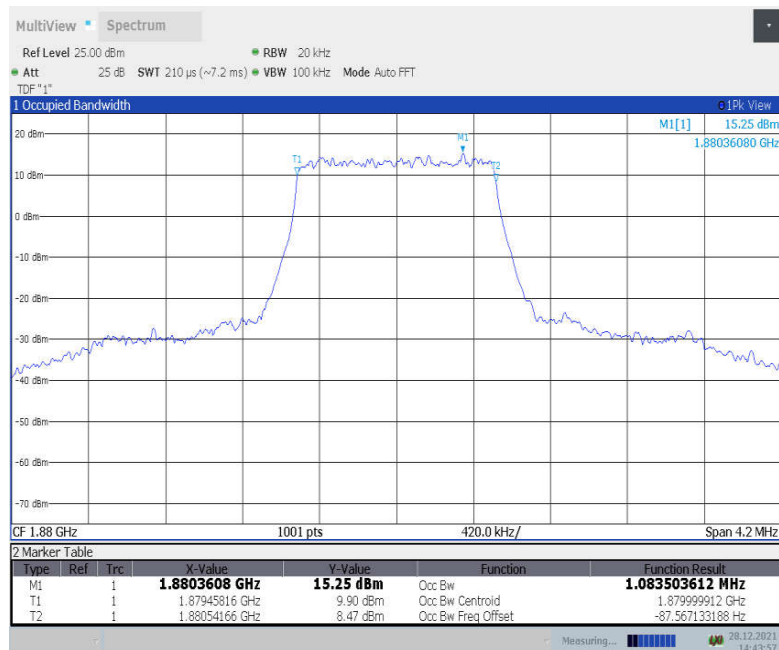
Occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the US Cellular/PCS frequency bands. The table below lists the measured 99% BW. Spectrum analyzer plots are included on the following pages.

- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least  $10\log(\text{OBW} / \text{RBW})$  below the reference level.
- Set the detection mode to peak, and the trace mode to max hold.
- Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### LTE band 2, 1.4MHz (99% BW)

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1880.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 1083.50                          | 1090.21 | 1085.93 |

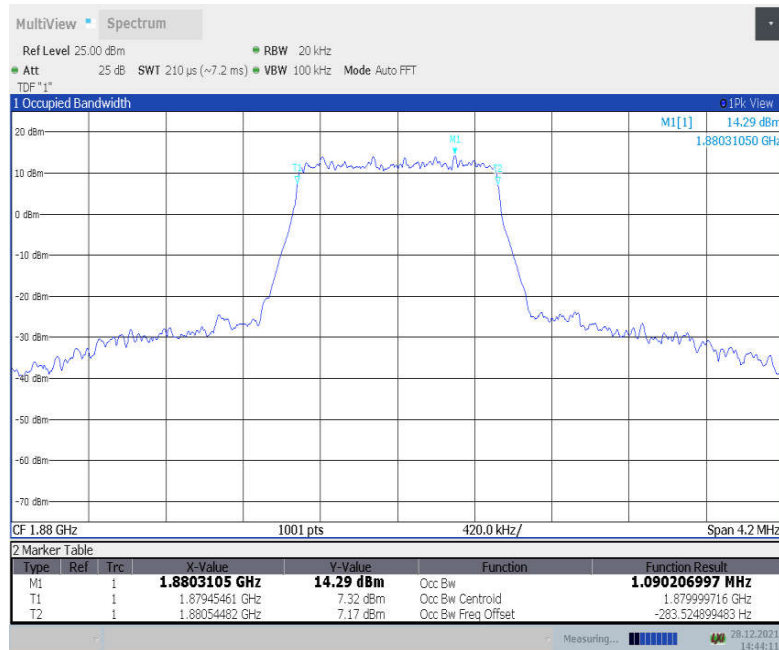
### LTE band 2, 1.4MHz Bandwidth, QPSK (99% BW)



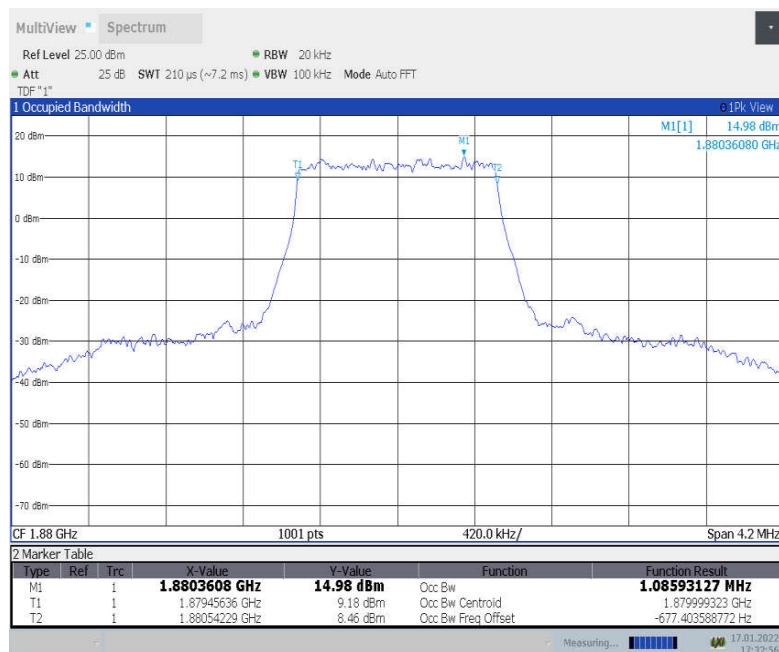


No. I21N04025-RF-LTE

**LTE band 2, 1.4MHz Bandwidth, 16QAM (99% BW)**



**LTE band 2, 1.4MHz Bandwidth, 64QAM (99% BW)**



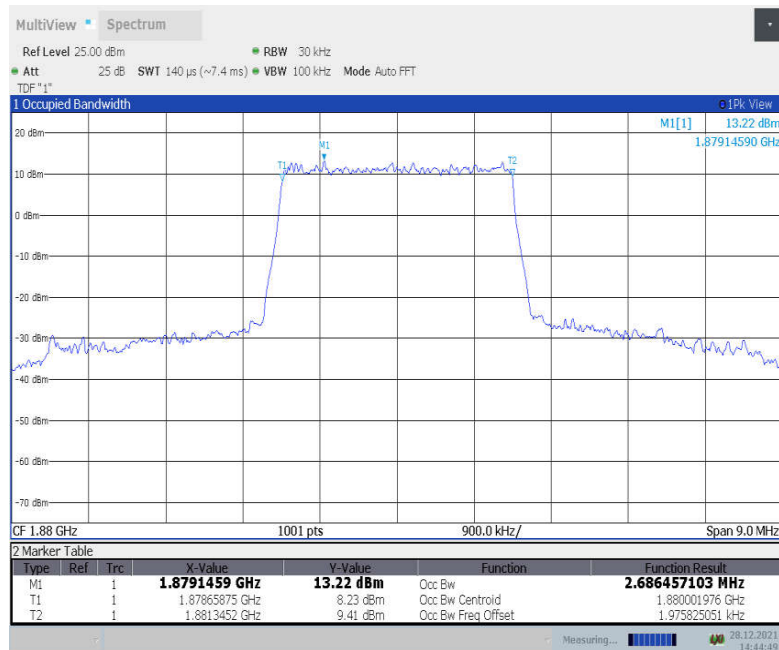


No. I21N04025-RF-LTE

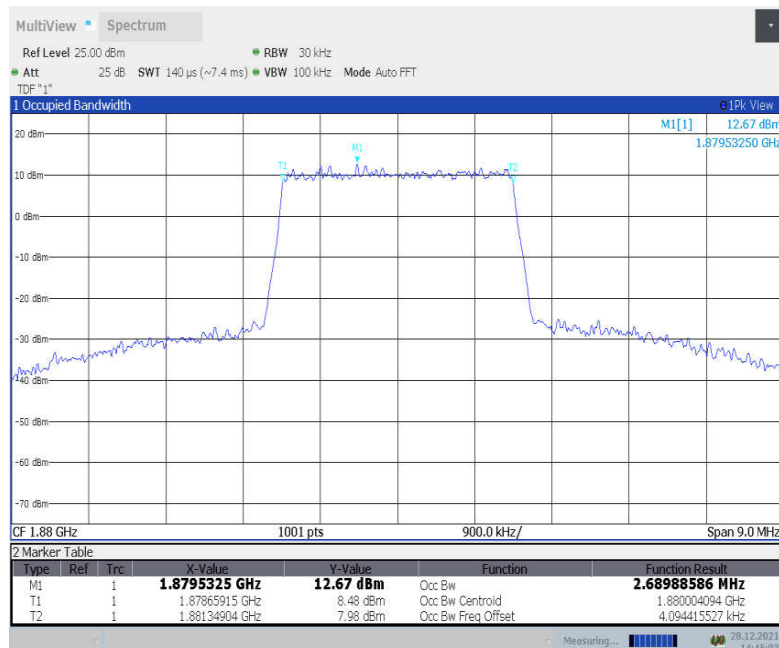
**LTE band 2, 3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1880.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 2686.46                          | 2689.89 | 2687.51 |

**LTE band 2, 3MHz Bandwidth, QPSK (99% BW)**



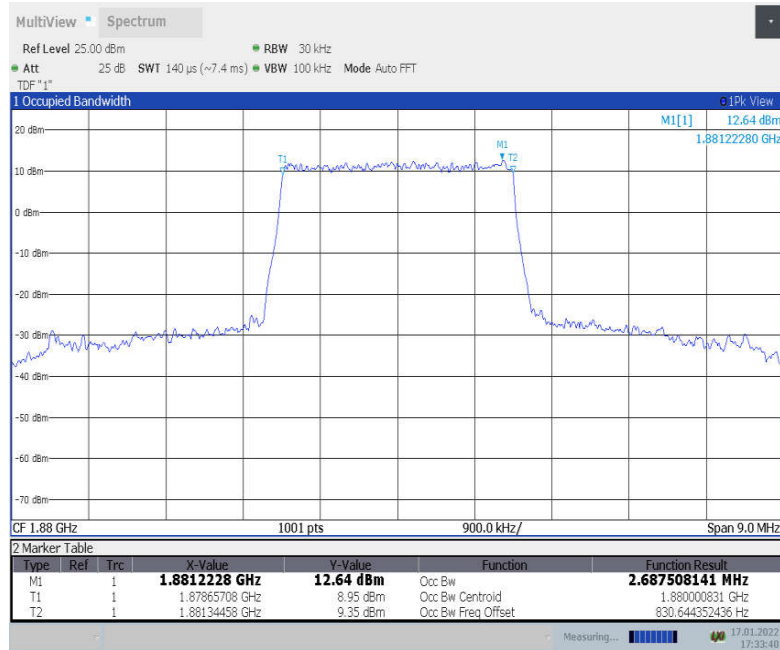
**LTE band 2, 3MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 2, 3MHz Bandwidth, 64QAM (99% BW)**



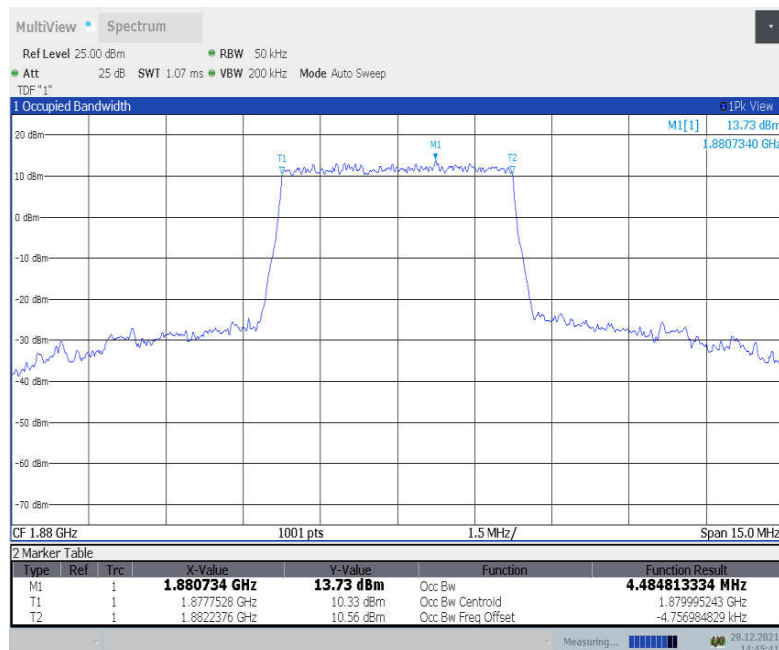


No. I21N04025-RF-LTE

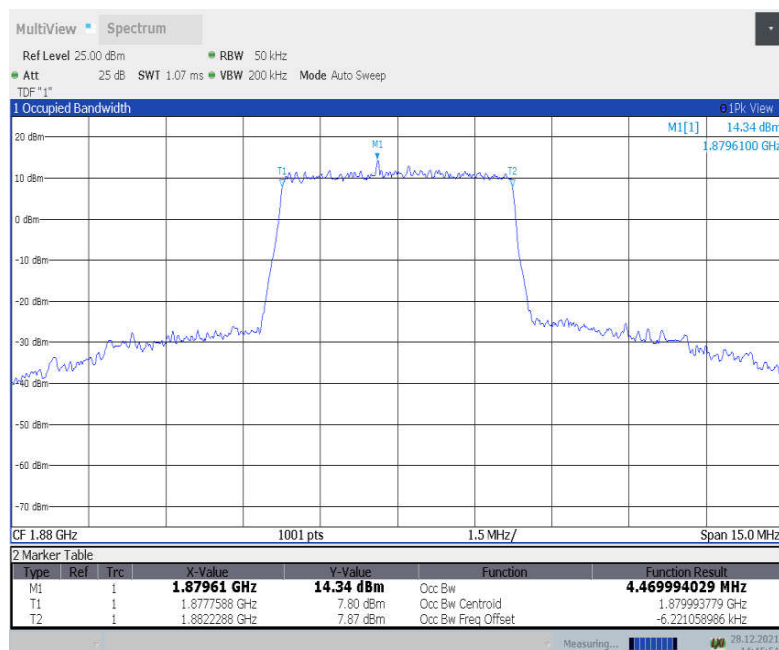
**LTE band 2, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1880.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 4484.81                          | 4469.99 | 4485.01 |

**LTE band 2, 5MHz Bandwidth, QPSK (99% BW)**



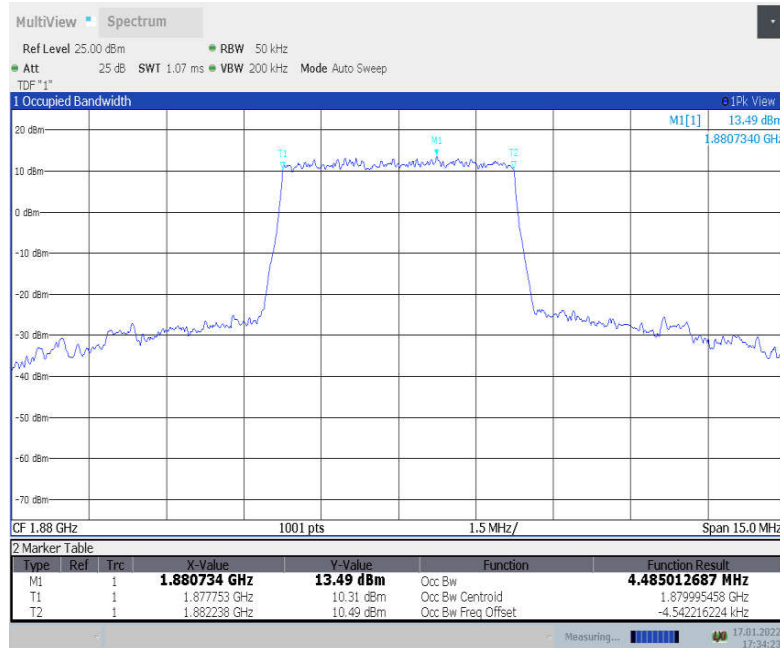
**LTE band 2, 5MHz Bandwidth,16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 2, 5MHz Bandwidth,64QAM (99% BW)**



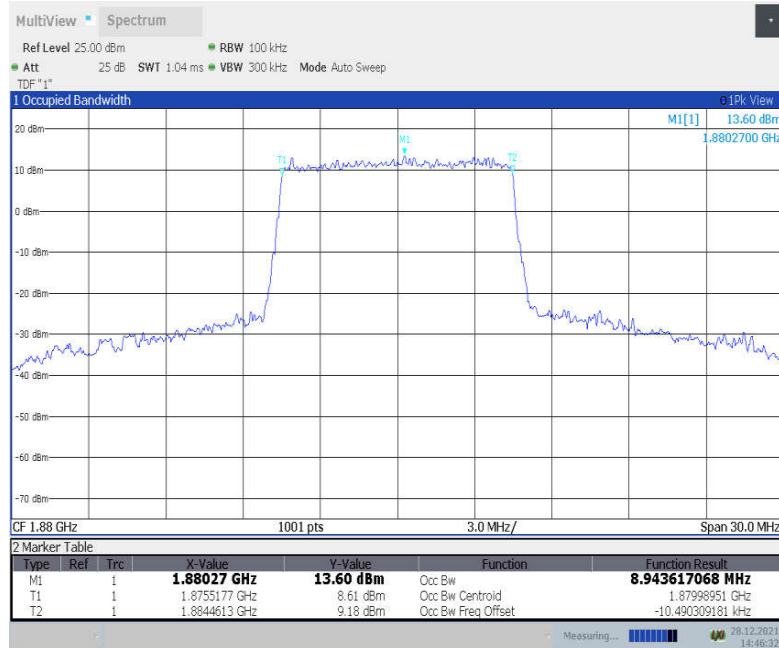


No. I21N04025-RF-LTE

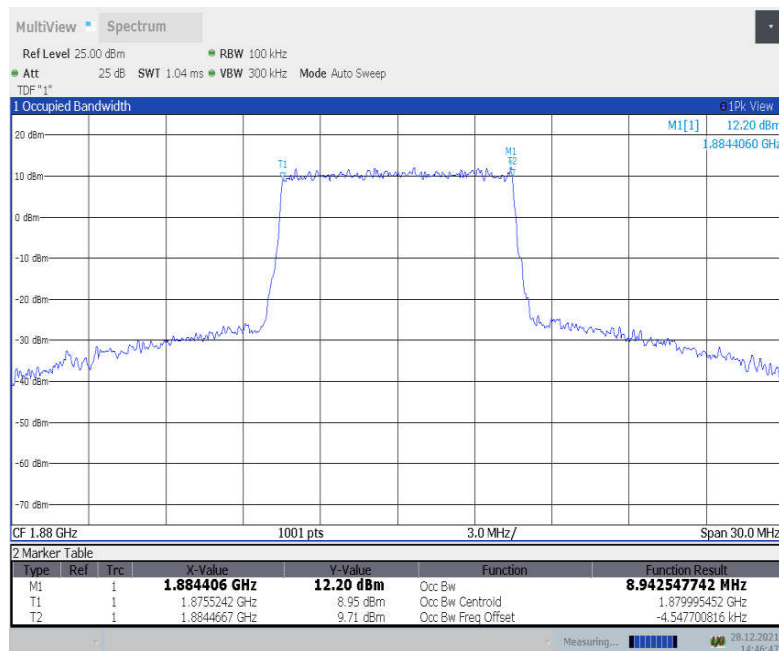
**LTE band 2, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1880.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 8943.62                          | 8942.55 | 8934.51 |

**LTE band 2, 10MHz Bandwidth, QPSK (99% BW)**



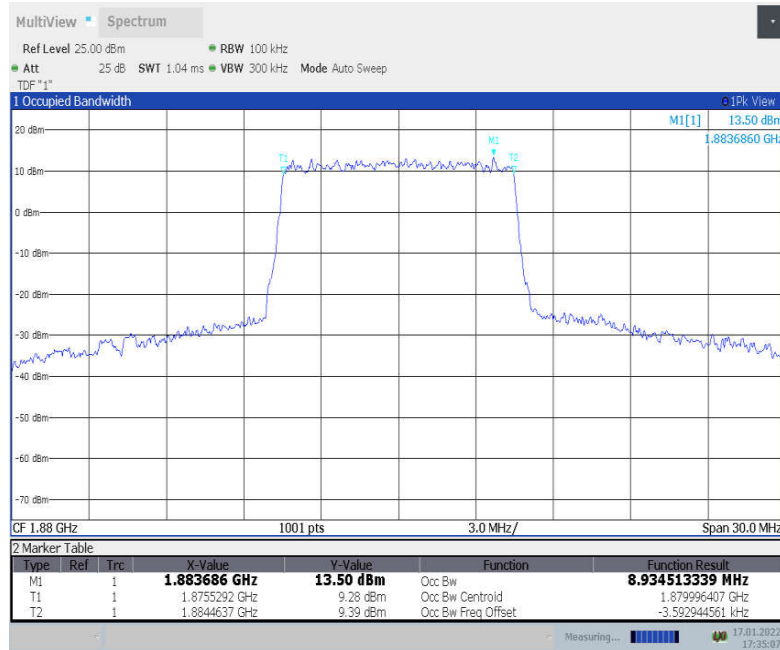
**LTE band 2, 10MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

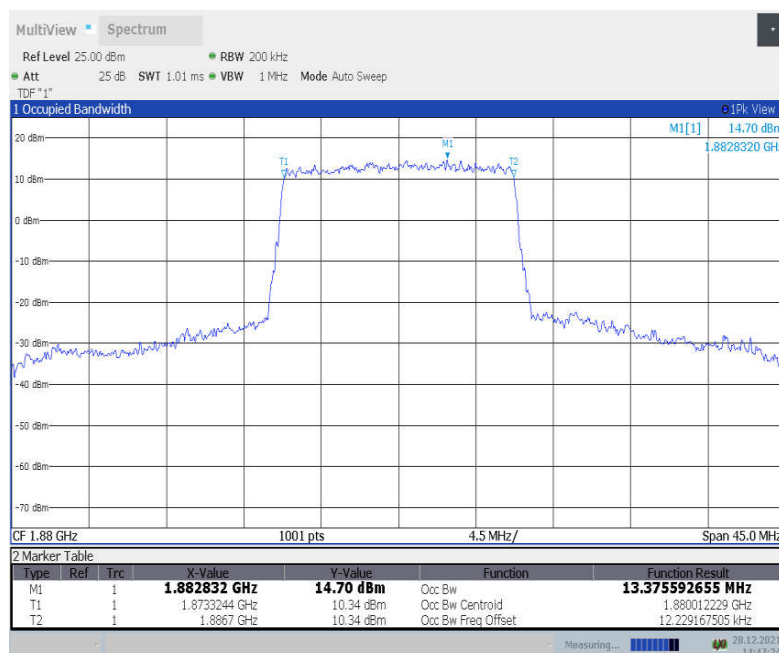
**LTE band 2, 10MHz Bandwidth, 64QAM (99% BW)**



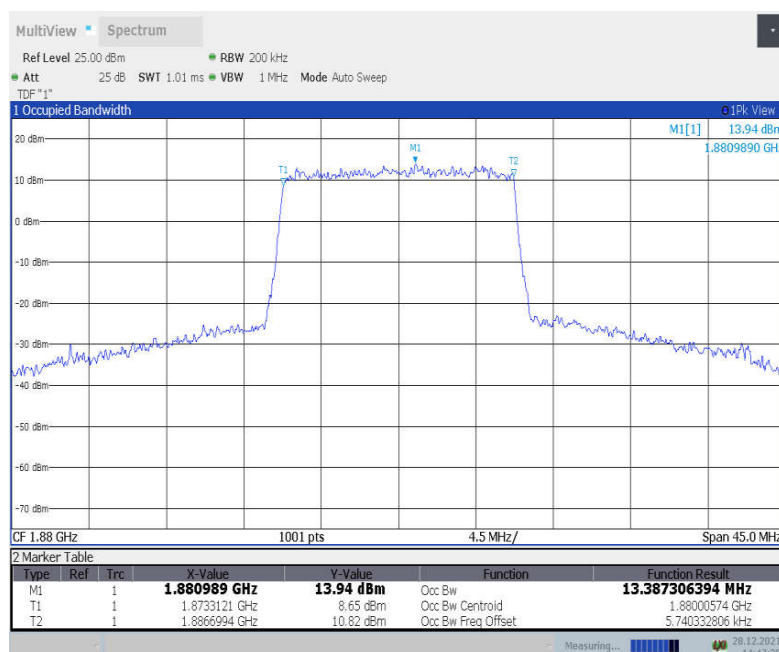
### LTE band 2, 15MHz (99% BW)

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |          |          |
|----------------|----------------------------------|----------|----------|
| 1880.0         | QPSK                             | 16QAM    | 64QAM    |
|                | 13375.59                         | 13387.31 | 13438.44 |

### LTE band 2, 15MHz Bandwidth, QPSK (99% BW)



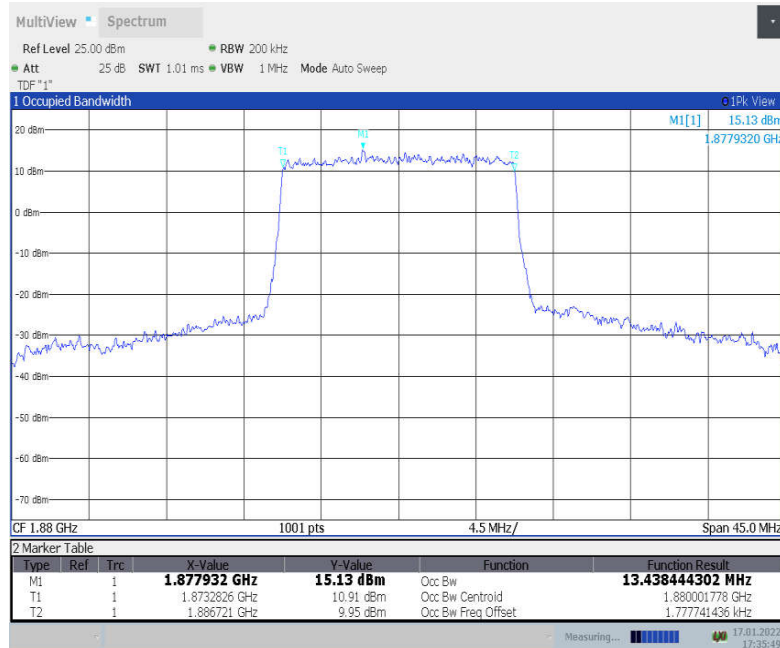
### LTE band 2, 15MHz Bandwidth, 16QAM (99% BW)





No. I21N04025-RF-LTE

**LTE band 2, 15MHz Bandwidth, 64QAM (99% BW)**



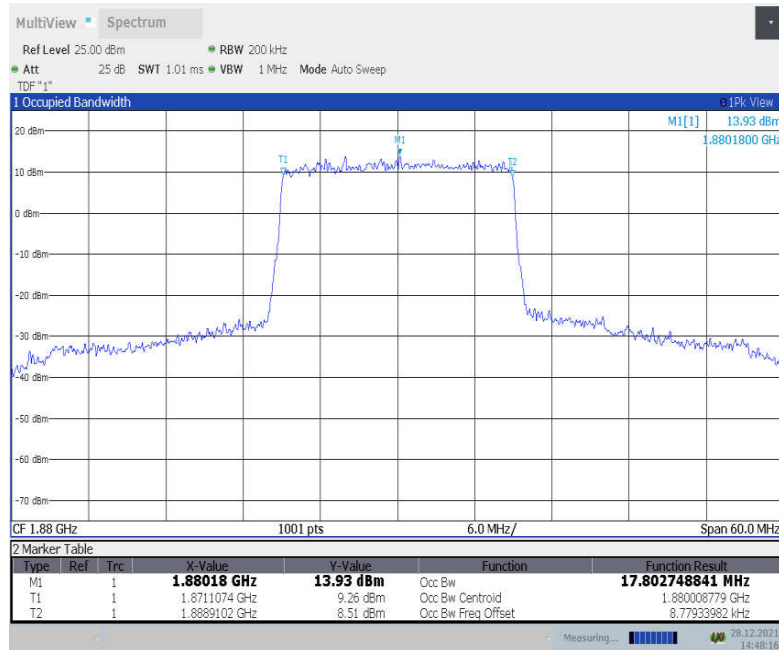


No. I21N04025-RF-LTE

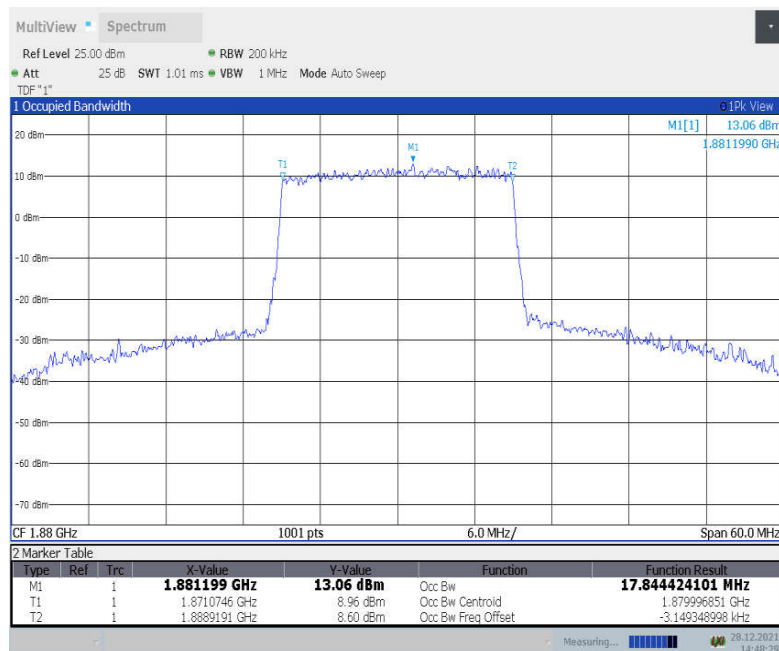
**LTE band 2, 20MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |          |          |
|----------------|----------------------------------|----------|----------|
| 1880.0         | QPSK                             | 16QAM    | 64QAM    |
|                | 17802.75                         | 17844.42 | 17825.28 |

**LTE band 2, 20MHz Bandwidth, QPSK (99% BW)**



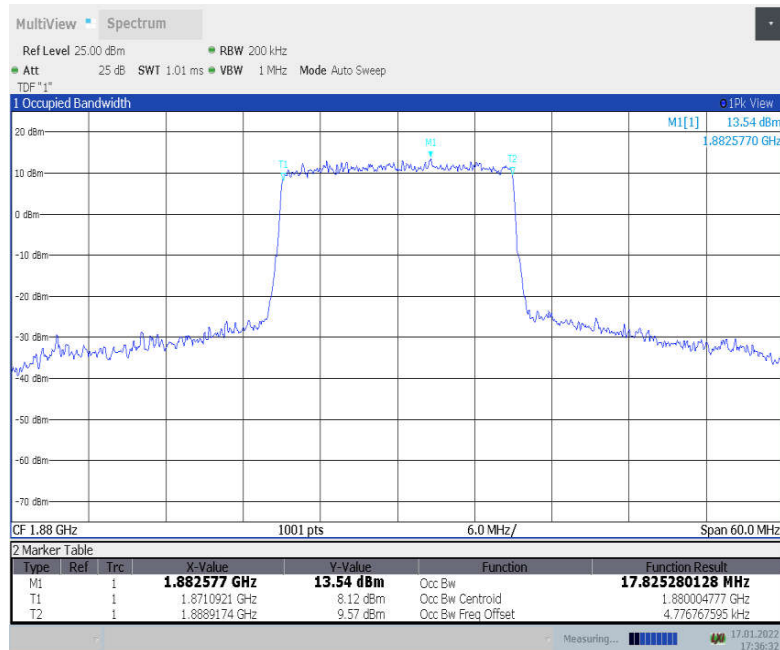
**LTE band 2, 20MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 2, 20MHz Bandwidth, 64QAM (99% BW)**



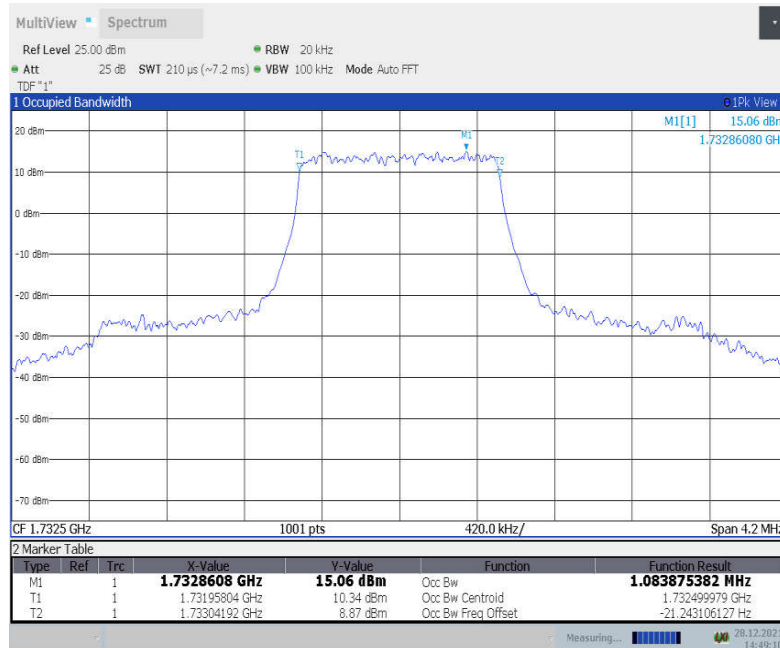


No. I21N04025-RF-LTE

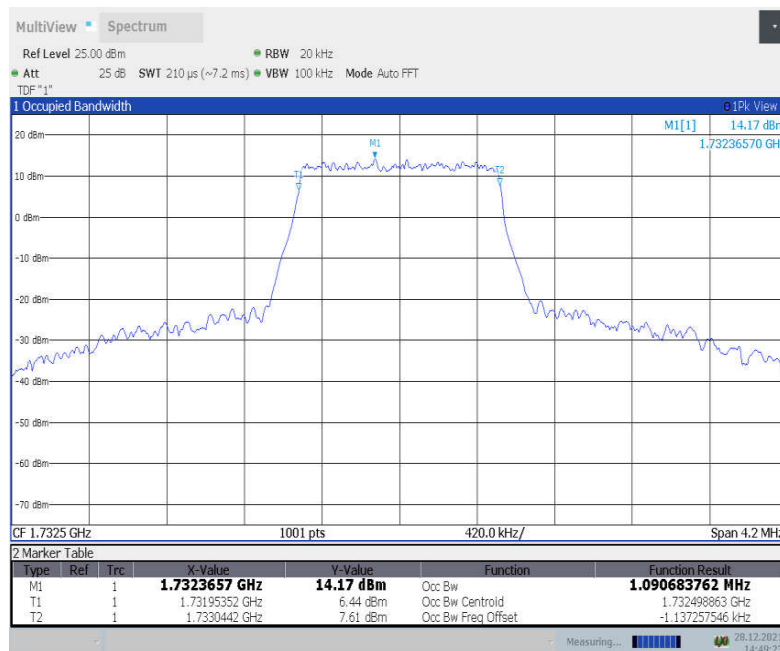
**LTE band 4, 1.4MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1732.5         | QPSK                             | 16QAM   | 64QAM   |
|                | 1083.88                          | 1090.68 | 1083.65 |

**LTE band 4, 1.4MHz Bandwidth, QPSK (99% BW)**



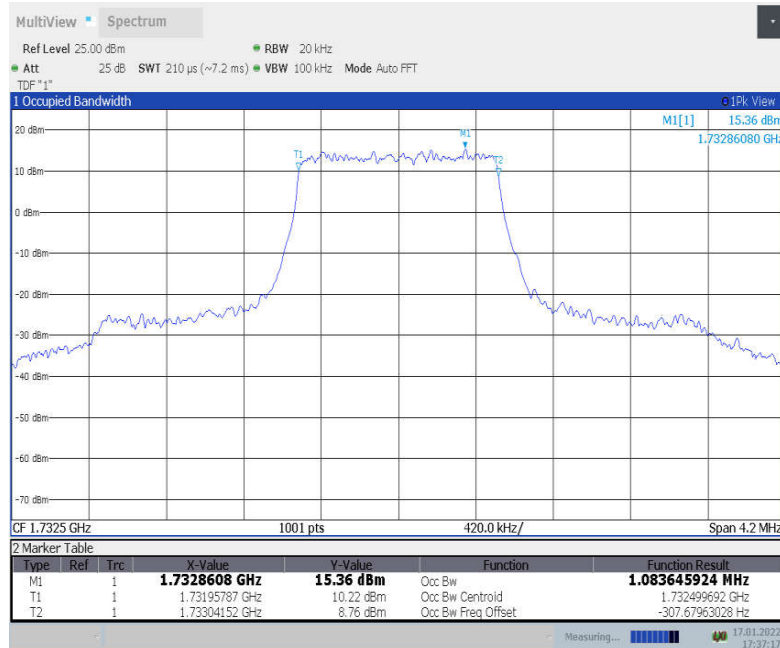
**LTE band 4, 1.4MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 4, 1.4MHz Bandwidth, 64QAM (99% BW)**



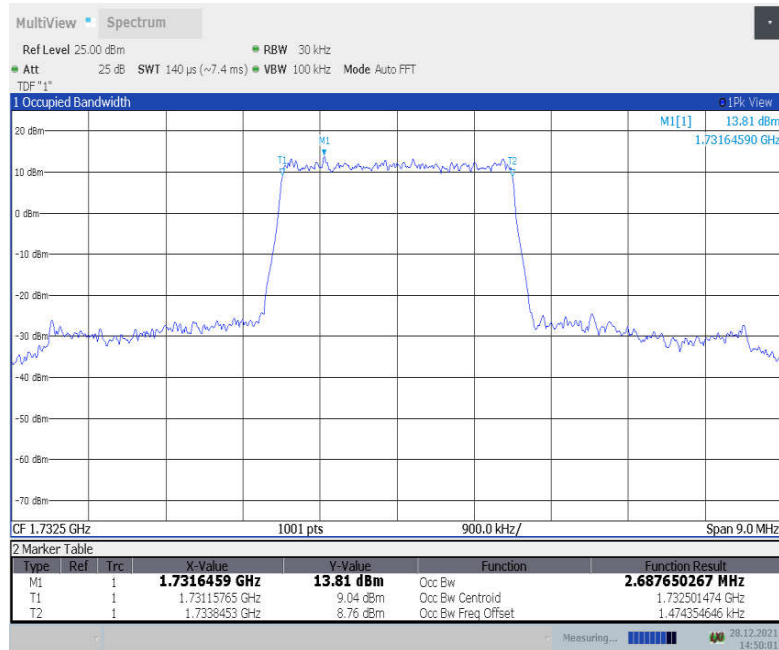


No. I21N04025-RF-LTE

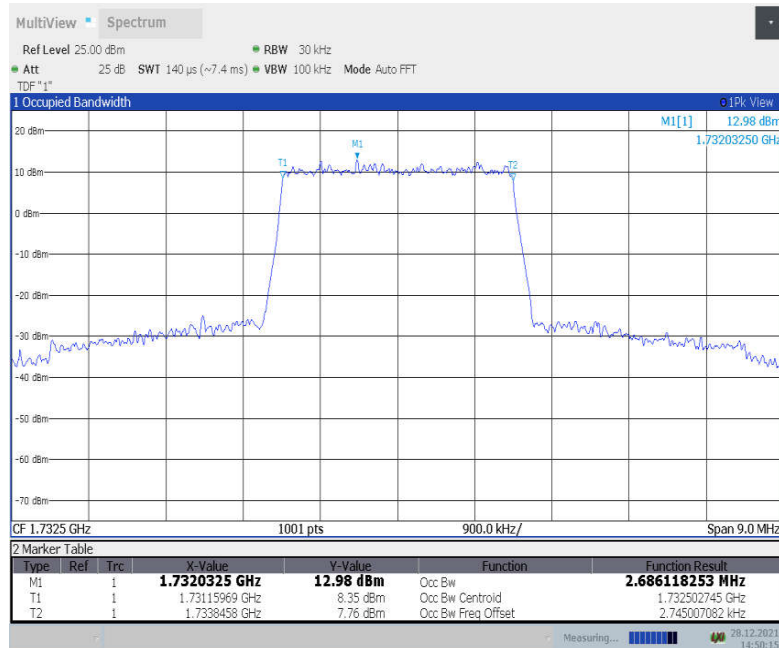
**LTE band 4, 3MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1732.5         | QPSK                             | 16QAM   | 64QAM   |
|                | 2687.65                          | 2686.12 | 2691.26 |

**LTE band 4, 3MHz Bandwidth, QPSK (99% BW)**



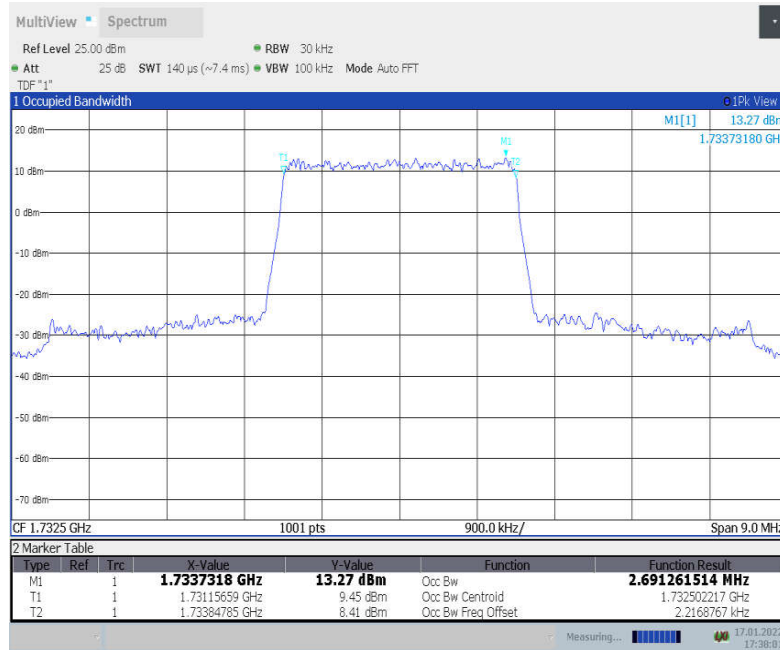
**LTE band 4, 3MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 4, 3MHz Bandwidth, 64QAM (99% BW)**



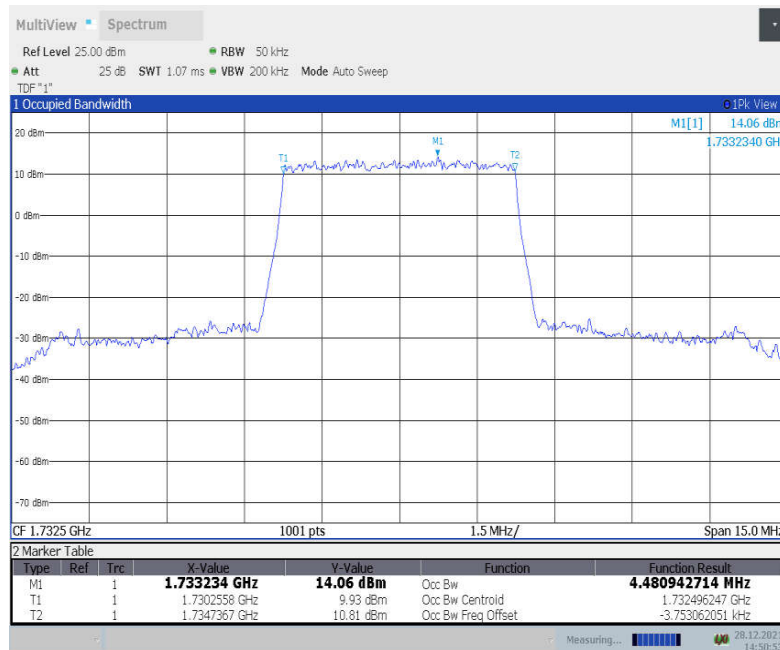


No. I21N04025-RF-LTE

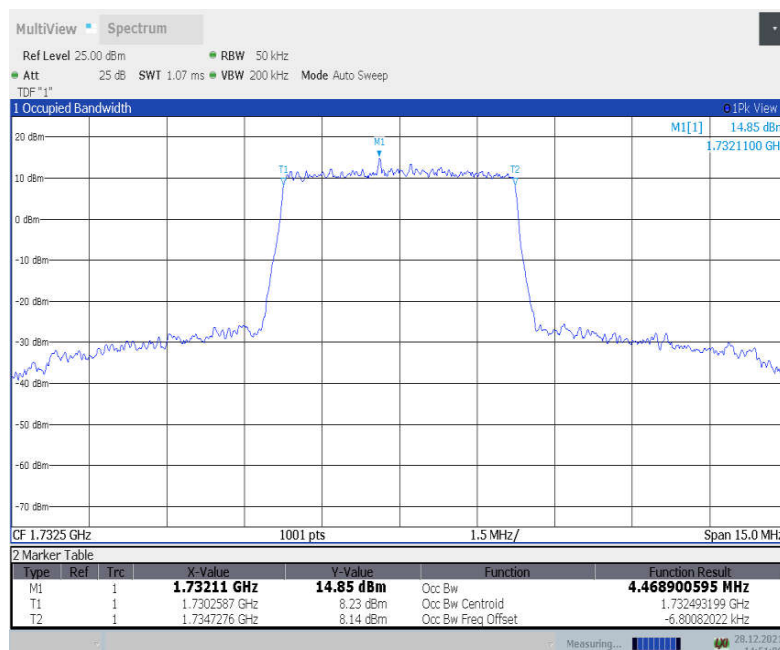
**LTE band 4, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1732.5         | QPSK                             | 16QAM   | 64QAM   |
|                | 4480.94                          | 4468.90 | 4483.33 |

**LTE band 4, 5MHz Bandwidth, QPSK (99% BW)**



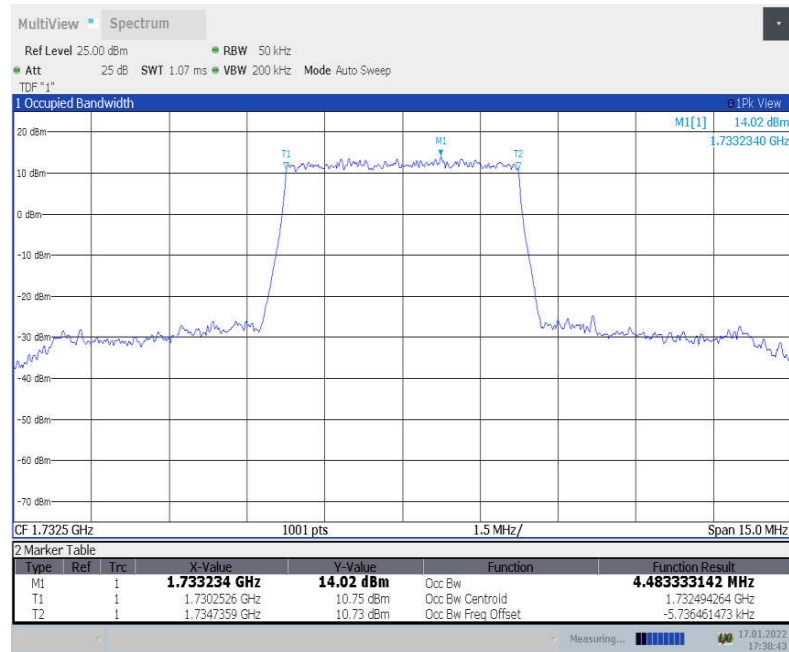
**LTE band 4, 5MHz Bandwidth,16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 4, 5MHz Bandwidth,64QAM (99% BW)**



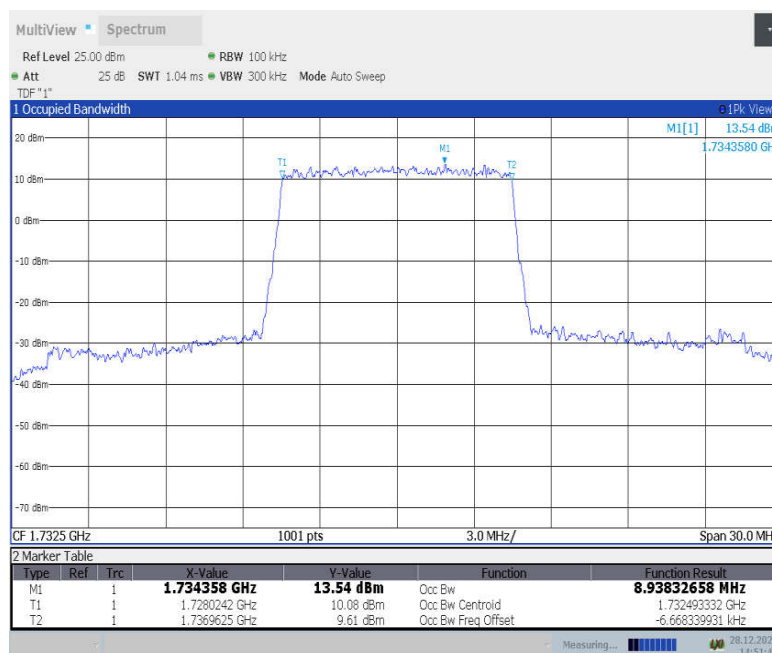


No. I21N04025-RF-LTE

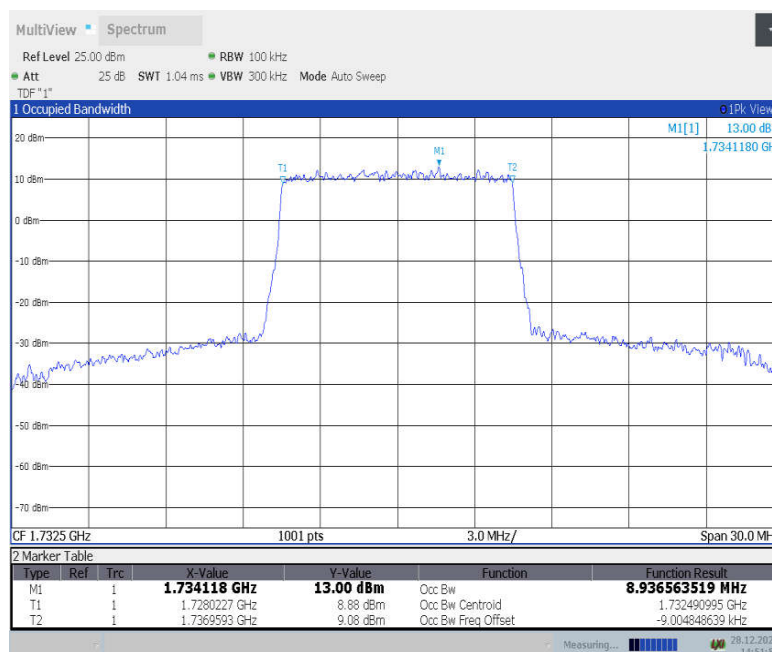
**LTE band 4, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 1732.5         | QPSK                             | 16QAM   | 64QAM   |
|                | 8938.32                          | 8936.56 | 8945.20 |

**LTE band 4, 10MHz Bandwidth, QPSK (99% BW)**



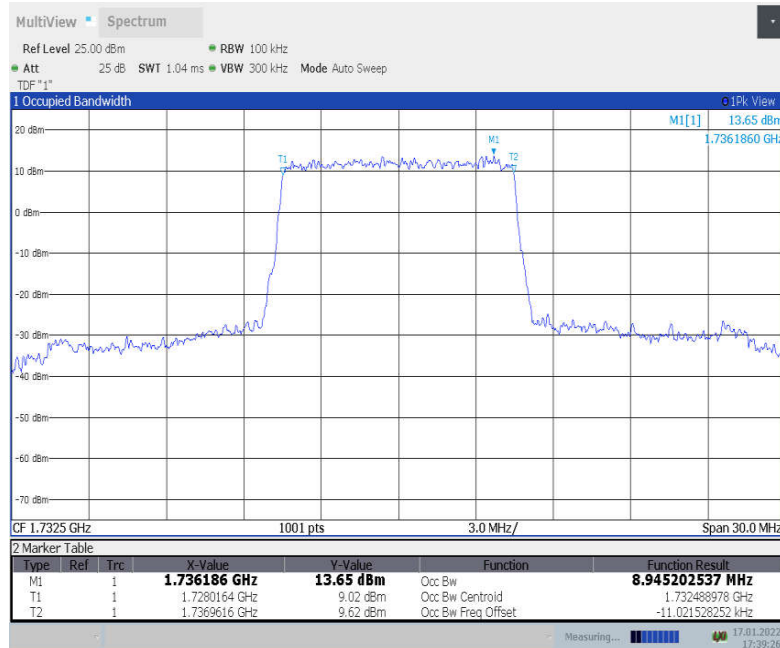
**LTE band 4, 10MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 4, 10MHz Bandwidth, 64QAM (99% BW)**



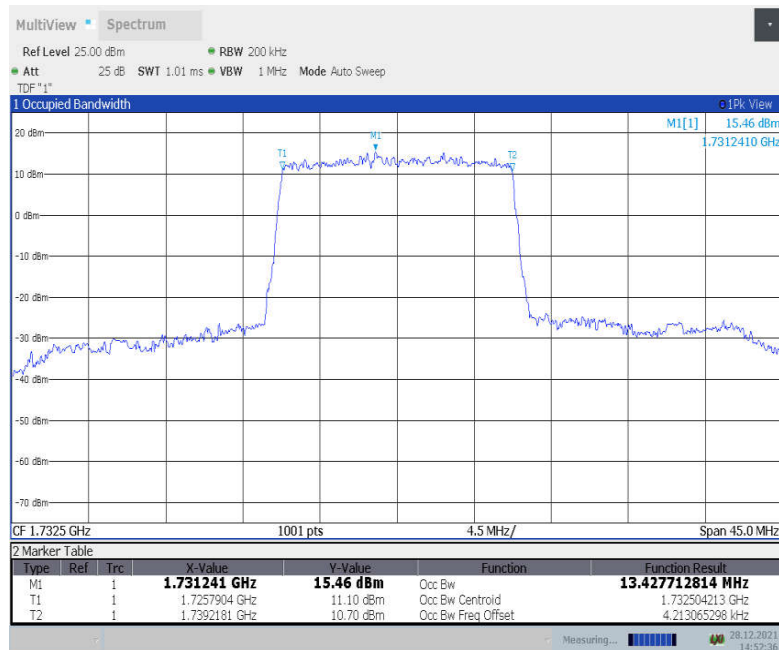


No. I21N04025-RF-LTE

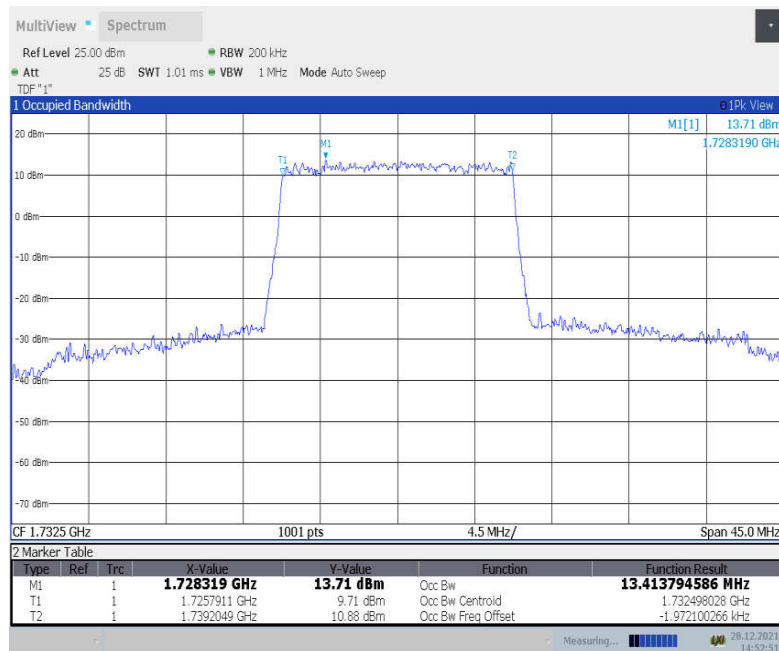
**LTE band 4, 15MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |          |          |
|----------------|----------------------------------|----------|----------|
| 1732.5         | QPSK                             | 16QAM    | 64QAM    |
|                | 13427.71                         | 13413.79 | 13428.94 |

**LTE band 4, 15MHz Bandwidth, QPSK (99% BW)**



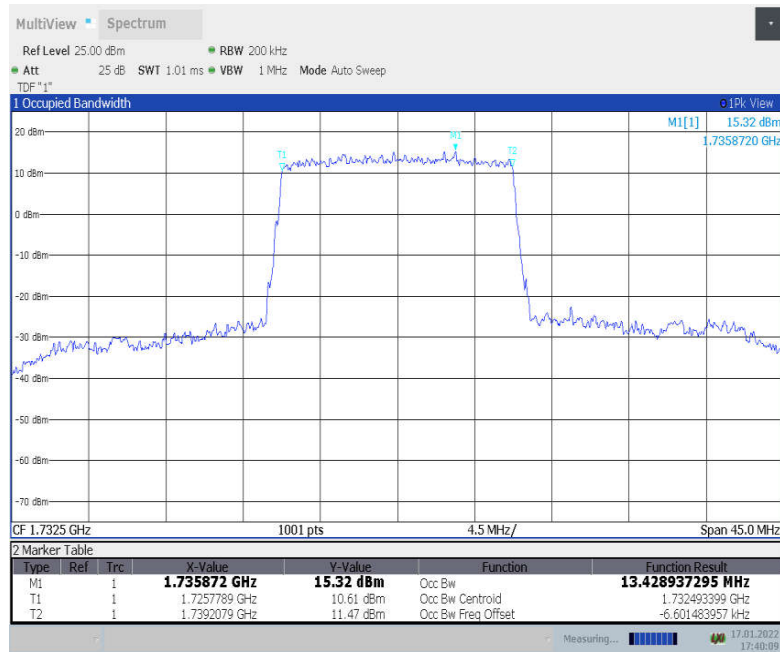
**LTE band 4, 15MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 4, 15MHz Bandwidth, 64QAM (99% BW)**



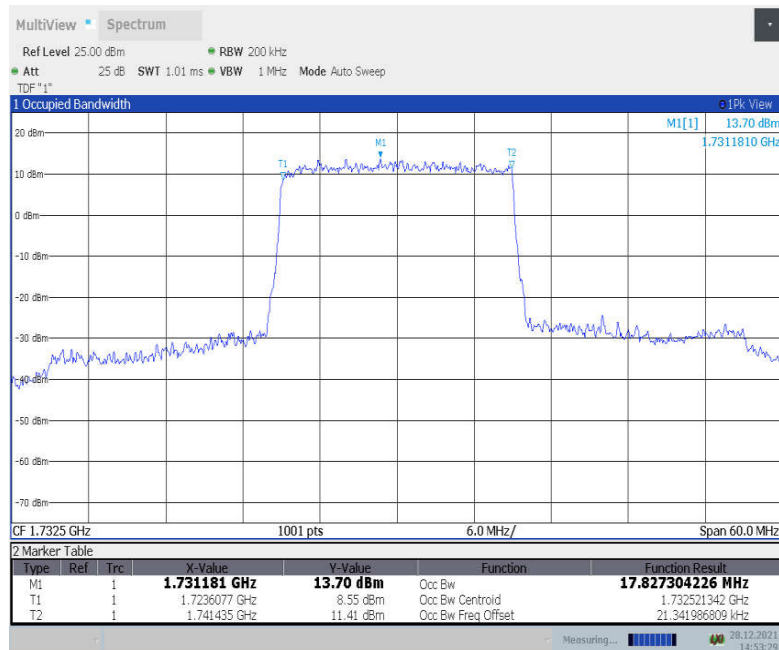


No. I21N04025-RF-LTE

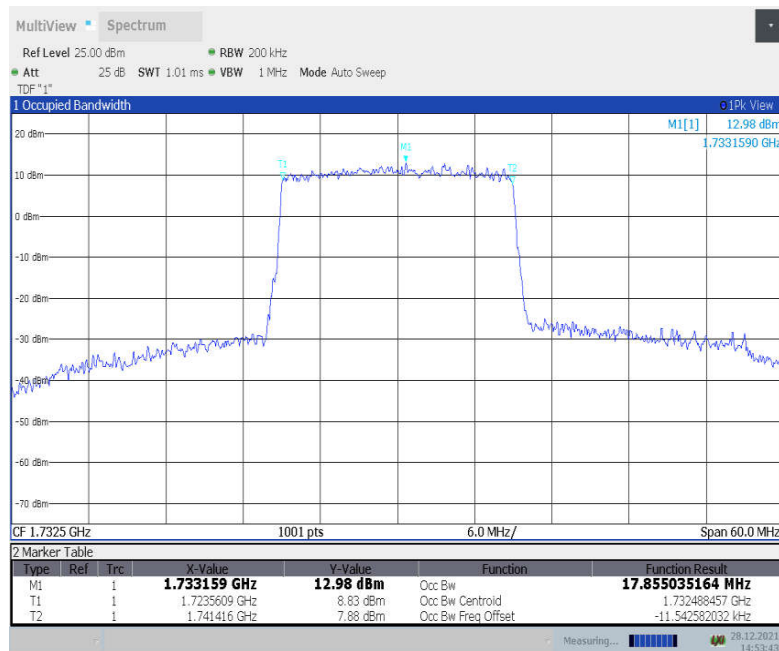
### LTE band 4, 20MHz (99% BW)

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |          |          |
|----------------|----------------------------------|----------|----------|
| 1732.5         | QPSK                             | 16QAM    | 64QAM    |
|                | 17827.30                         | 17855.04 | 17824.96 |

### LTE band 4, 20MHz Bandwidth, QPSK (99% BW)



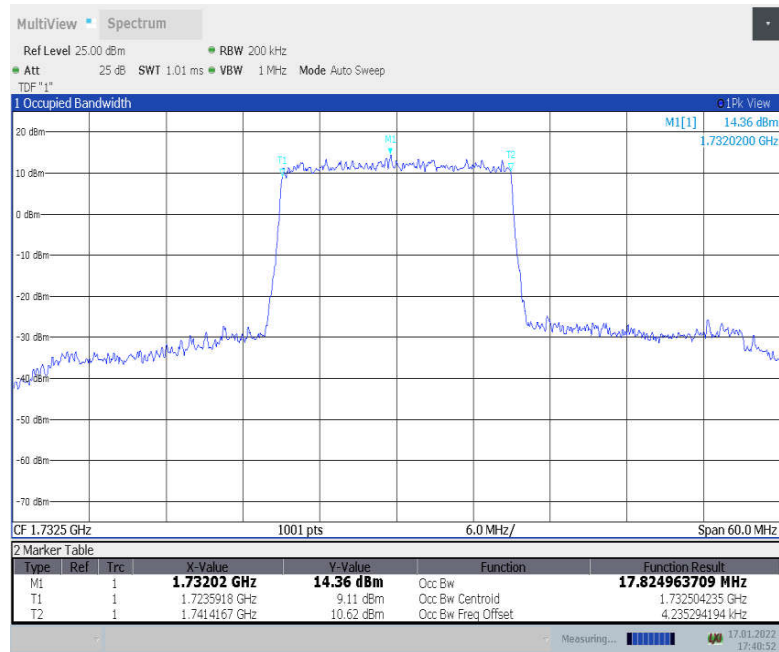
### LTE band 4, 20MHz Bandwidth, 16QAM (99% BW)





No. I21N04025-RF-LTE

**LTE band 4, 20MHz Bandwidth, 64QAM (99% BW)**



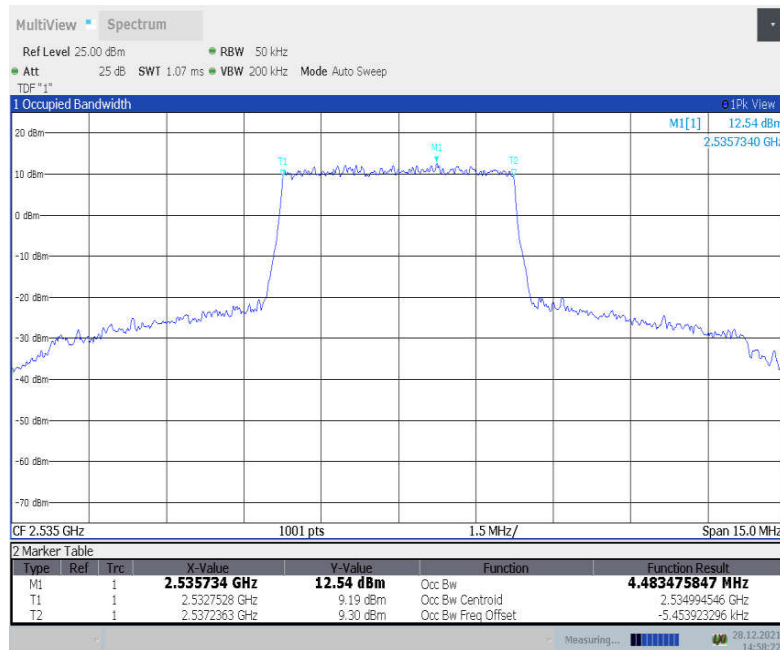


No. I21N04025-RF-LTE

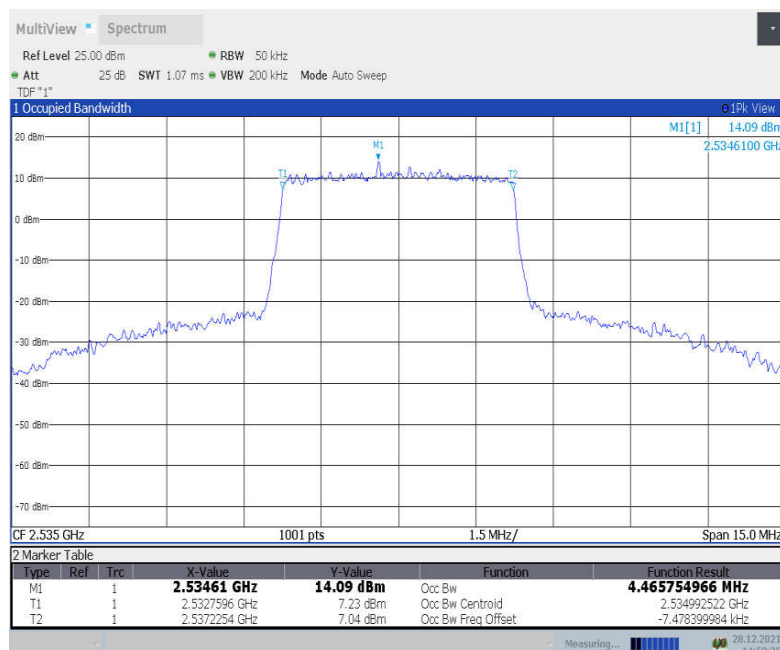
**LTE band 7, 5MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 2535.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 4483.48                          | 4465.75 | 4484.41 |

**LTE band 7, 5MHz Bandwidth, QPSK (99% BW)**



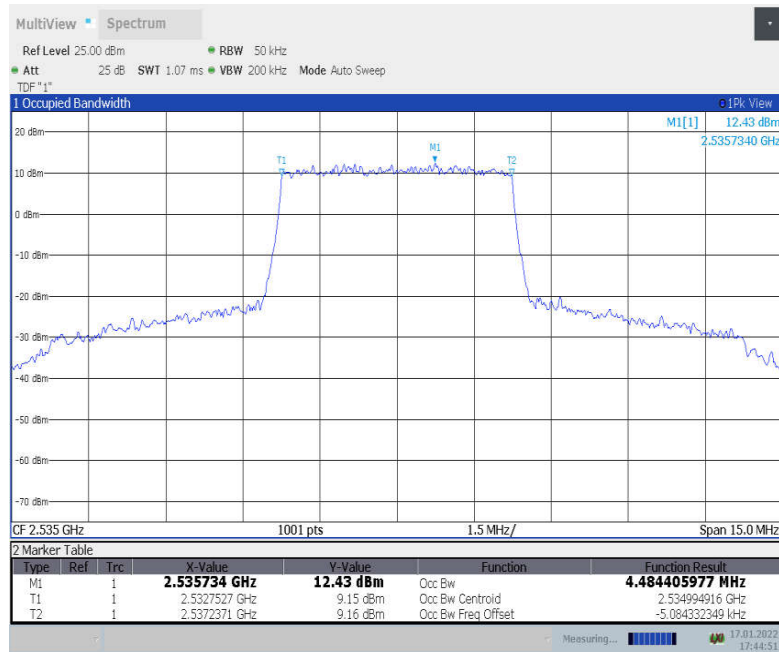
**LTE band 7, 5MHz Bandwidth,16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 7, 5MHz Bandwidth,64QAM (99% BW)**



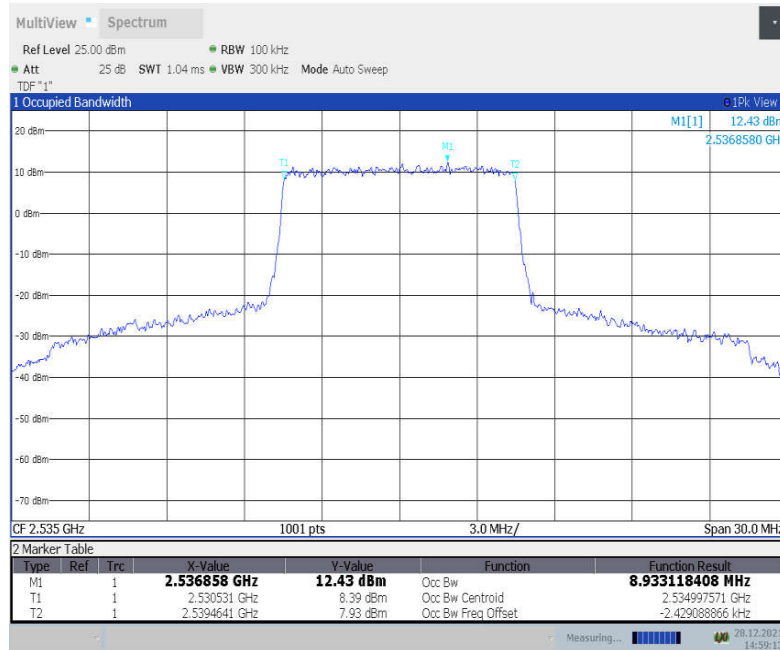


No. I21N04025-RF-LTE

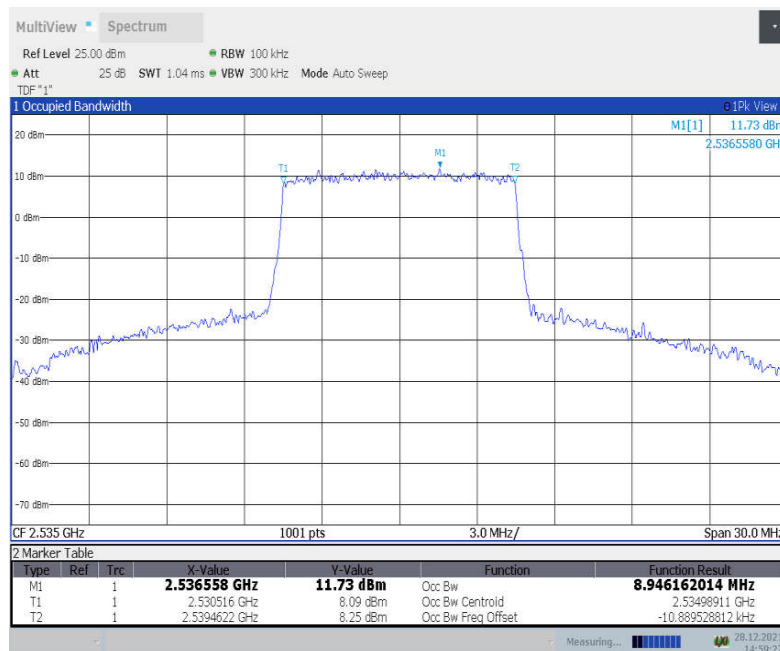
**LTE band 7, 10MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |         |         |
|----------------|----------------------------------|---------|---------|
| 2535.0         | QPSK                             | 16QAM   | 64QAM   |
|                | 8933.12                          | 8946.16 | 8948.48 |

**LTE band 7, 10MHz Bandwidth, QPSK (99% BW)**



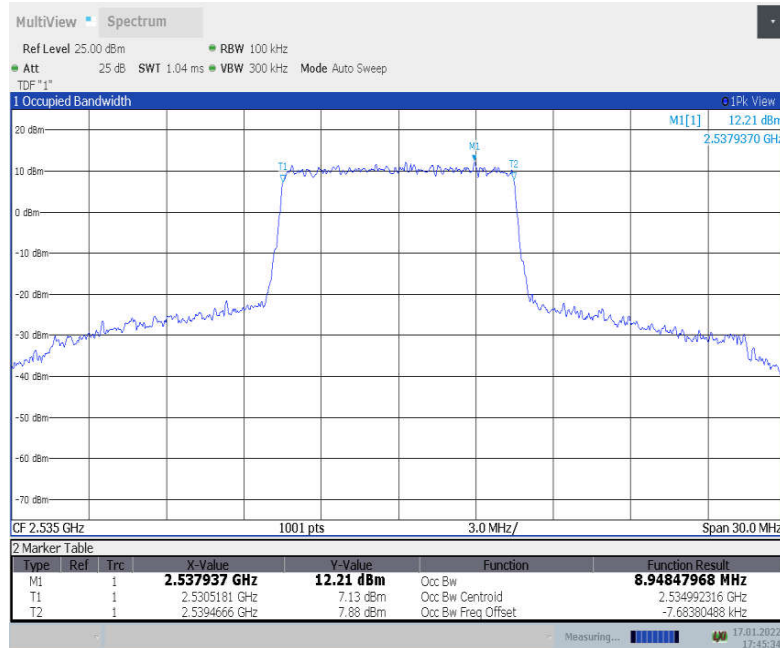
**LTE band 7, 10MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 7, 10MHz Bandwidth, 64QAM (99% BW)**



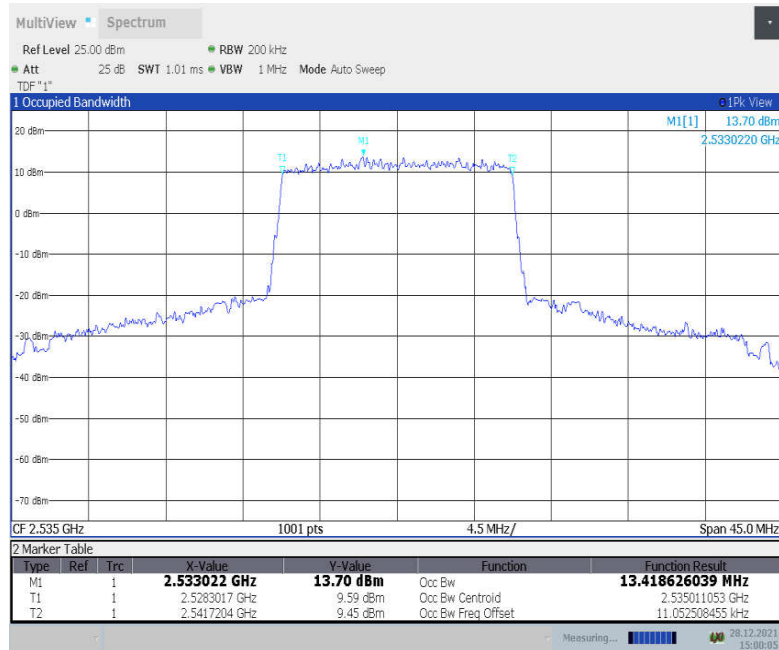


No. I21N04025-RF-LTE

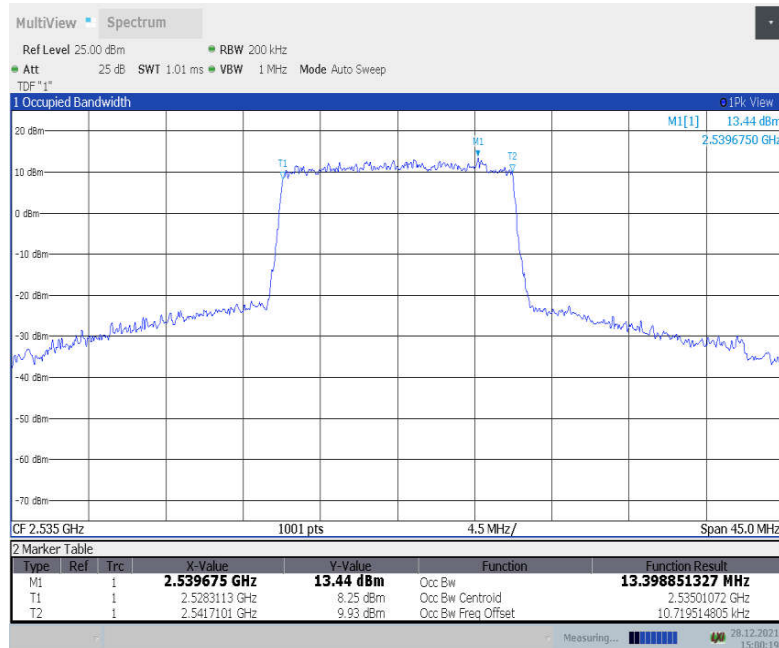
**LTE band 7, 15MHz (99% BW)**

| Frequency(MHz) | Occupied Bandwidth (99% BW)(kHz) |          |          |
|----------------|----------------------------------|----------|----------|
| 2535.0         | QPSK                             | 16QAM    | 64QAM    |
|                | 13418.63                         | 13398.85 | 13408.93 |

**LTE band 7, 15MHz Bandwidth, QPSK (99% BW)**



**LTE band 7, 15MHz Bandwidth, 16QAM (99% BW)**





No. I21N04025-RF-LTE

**LTE band 7, 15MHz Bandwidth, 64QAM (99% BW)**

