

# Radio Test Report

Report No.: STS2312336W02

Issued for

PLUM Sp. z o.o.

ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland

Product Name: MacBAT 5

Brand Name:



Model Name: 4GC14A2

Series Model(s): N/A

FCC ID: 2BECF-4GC14A2

Test Standards: 47 CFR Part 2, 22, 24, 27, 90

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT**

**Applicant's Name** .....: PLUM Sp. z o.o.  
**Address** .....: ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland  
**Manufacturer's Name** .....: PLUM Sp. z o.o.  
**Address** .....: ul. Wspolna 19, Ignatki, 16-001 Kleosin, Poland

**Product Description**

**Product Name** .....: MacBAT 5  
**Brand Name** .....:   
**Model Name** .....: 4GC14A2  
**Series Model(s)** .....: N/A  
**Test Standards** .....: 47 CFR Part 2, 22, 24, 27, 90  
**Test Procedure** .....: KDB 971168 D01 v03r01, ANSI C63.26( 2015)

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.  
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**Date of Test** .....:  
**Date of receipt of test item** .....: 11 Dec. 2023  
**Date (s) of performance of tests** .: 11 Dec. 2023~ 29 Dec. 2023  
**Date of Issue** .....: 29 Dec. 2023  
**Test Result** .....: Pass

Testing Engineer :



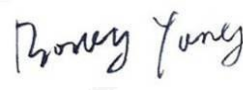
(Lenon Hou)

Technical Manager :



(Chris Chen)

Authorized Signatory :



(Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report No.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 29 Dec. 2023 | STS2312336W02 | ALL         | Initial Issue |
|      |              |               |             |               |



## SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

The radiated emission testing was performed according to the procedures of KDB 971168 D01 v03r01 and ANSI C63.26( 2015)

| Test Description                       | FCC Rules | Band        | Test Limit               | Test Result |
|----------------------------------------|-----------|-------------|--------------------------|-------------|
| Conducted Output Power                 | 2.1046    | /           | Reporting Only           | PASS        |
| Transmitter Radiated Power             | 22.913    | B5          | ERP < 7 Watt             | PASS        |
|                                        | 24.232(c) | B2          | EIRP < 2Watt             |             |
|                                        | 27.50(d)  | B4, B66     | EIRP < 1Watt             |             |
|                                        | 27.50(h)  | B7          | EIRP < 2Watt             |             |
| Peak-to-Average Ratio                  | 22.913(d) | B5          | < 13 dB                  | PASS        |
|                                        | 24.232(d) | B2          |                          |             |
|                                        | 27.50     | B4, B7, B66 |                          |             |
| Occupied Bandwidth                     | 2.1049    | /           | Reporting Only           | PASS        |
| Frequency Stability                    | 2.1055    | /           | < 2.5 ppm                | PASS        |
|                                        | 22.355    | B5          |                          |             |
|                                        | 24.235    | B2          |                          |             |
|                                        | 27.54     | B4, B7, B66 |                          |             |
| Spurious Emission at Antenna Terminals | 2.1051    | /           | < 43+10log10(P[Watts])   | PASS        |
|                                        | 22.917    | B5          |                          |             |
|                                        | 24.238(a) | B2          |                          |             |
|                                        | 27.53(h)  | B4, B66     |                          |             |
|                                        | 27.53(m)  | B7          | < 55+10log10(P[Watts])   |             |
| Band Edge                              | 2.1051    | /           | Please refer to standard | PASS        |
|                                        | 22.917    | B5          |                          |             |
|                                        | 24.238(a) | B2          |                          |             |



|                                         |           |         |                        |      |
|-----------------------------------------|-----------|---------|------------------------|------|
|                                         | 27.53(h)  | B4, B66 |                        |      |
|                                         | 27.53(m)  | B7      |                        |      |
| Field Strength of<br>Spurious Radiation | 2.1053    | /       | < 43+10log10(P[Watts]) | PASS |
|                                         | 22.917    | B5      |                        |      |
|                                         | 24.238(a) | B2      |                        |      |
|                                         | 27.53(h)  | B4, B66 |                        |      |
|                                         | 27.53(m)  | B7      | < 55+10log10(P[Watts]) |      |



## 1 INTRODUCTION

### 1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

### 1.2 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95% level of confidence. The measurement data shown herein meets or exceeds the UCISPR measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| No. | Item                              | Uncertainty          |
|-----|-----------------------------------|----------------------|
| 1   | RF output power, conducted        | $\pm 0.755\text{dB}$ |
| 2   | Unwanted Emissions, conducted     | $\pm 2.874\text{dB}$ |
| 3   | All emissions, radiated 9K-30MHz  | $\pm 3.80\text{dB}$  |
| 4   | All emissions, radiated 30M-1GHz  | $\pm 4.18\text{dB}$  |
| 5   | All emissions, radiated 1G-6GHz   | $\pm 4.90\text{dB}$  |
| 6   | All emissions, radiated >6G       | $\pm 5.24\text{dB}$  |
| 7   | Conducted Emission (9KHz-150KHz)  | $\pm 2.19\text{dB}$  |
| 8   | Conducted Emission (150KHz-30MHz) | $\pm 2.53\text{dB}$  |
| 9   | Occupied Channel Bandwidth        | $\pm 3.5\%$          |
| 10  | Power Spectral Density, conducted | $\pm 1.245\text{dB}$ |
| 11  | Duty Cycle                        | $\pm 3.2\%$          |



## 2 PRODUCT INFORMATION

|                             |                                                                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                | MacBAT 5                                                                                                                                                                                                                               |
| Brand Name                  |                                                                                                                                                       |
| Model Name                  | 4GC14A2                                                                                                                                                                                                                                |
| Series Model(s)             | N/A                                                                                                                                                                                                                                    |
| Model Difference            | /A                                                                                                                                                                                                                                     |
| Tx Frequency:               | GSM850:824-849 MHz<br>GSM900:880-915 MHz<br>GSM1800:1710 ~ 1785 MHz<br>GSM1900:1850-1910 MHz<br>LTE Band 2:1850~1910MHz<br>LTE Band 4:1710~1755MHz<br>LTE Band 5:824~849MHz<br>LTE Band 7:2500-2570MHz<br>LTE Band 66:1710-1780 MHz    |
| Rx Frequency:               | GSM850:824-849 MHz<br>GSM900:925 ~ 960 MHz<br>GSM1800:1805 ~ 1880 MHz<br>GSM1900:1850-1910 MHz<br>LTE Band 2:1930 ~1990MHz<br>LTE Band 4:2110~2155MHz<br>LTE Band 5:869~894MHz<br>LTE Band 7:2620-2690MHz<br>LTE Band 66:2110-2200 MHz |
| Max RF Output Power:        | GSM850: 34.52dBm; GSM1900:30.77 dBm<br>LTE Band 2: 23.77dBm, LTE Band 4: 23.71dBm<br>LTE Band 5: 24.42dBm, LTE Band 7: 24.24dBm<br>LTE Band 66: 24.17 dBm                                                                              |
| Modulation Characteristics: | GMSK for GPRS<br>LTE: QPSK /16QAM                                                                                                                                                                                                      |
| SIM Card:                   | Only support single SIM Card.                                                                                                                                                                                                          |
| Antenna:                    | PIFA                                                                                                                                                                                                                                   |
| Antenna gain:               | GSM 850:3.14dBi<br>GSM 900: 3.26dBi<br>GSM 1800/1900: 2dBi<br>LTE Band 2/4: 0.62dBi<br>LTE Band 5: 3.14dBi<br>LTE Band 7:1.2dBi<br>LTE Band 66:1.75 dBi                                                                                |
| Rating                      | Input: 3.6VDC (MacBAT5 lithium battery)<br>5.7VDC (MacBAT5 external power)<br>12.0VDC (INT-S3 interface)                                                                                                                               |
| Battery                     | Rated Voltage: 3.6V                                                                                                                                                                                                                    |
| GPRS/EDGE Class:            | Multi-Class12                                                                                                                                                                                                                          |
| Extreme Vol. Limits:        | DC 3.24V~ DC 3.96V(Normal: DC 3.6V)                                                                                                                                                                                                    |



|                                                                                                                                                                                                                                                                                                   |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Extreme Temp. Tolerance:                                                                                                                                                                                                                                                                          | -30°C to +50°C |
| Hardware version number:                                                                                                                                                                                                                                                                          | H1.8.0         |
| Software version number:                                                                                                                                                                                                                                                                          | F01            |
| <b>** Note: The High Voltage DC 3.96V and Low Voltage DC 3.24V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage, the antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.</b> |                |

## 2.1 EMISSION DESIGNATOR

| Mode        | Emission Designator (99%OBW) |                     |
|-------------|------------------------------|---------------------|
| GPRS850     | 243KGXW                      |                     |
| GPRS1900    | 232KGXW                      |                     |
| LTE Band 2  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M70G7D                      | 2M70W7D             |
| 5           | 4M51G7D                      | 4M52W7D             |
| 10          | 8M98G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 18M0G7D                      | \                   |
| LTE Band 4  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M71G7D                      | 2M71W7D             |
| 5           | 4M53G7D                      | 4M52W7D             |
| 10          | 9M00G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 18M0G7D                      | \                   |
| LTE Band 5  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M70G7D                      | 2M70W7D             |
| 5           | 4M53G7D                      | 4M52W7D             |
| 10          | 9M00G7D                      | \                   |
| LTE Band 7  | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 5           | 4M52G7D                      | 4M52W7D             |
| 10          | 8M98G7D                      | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 17M9G7D                      | \                   |
| LTE Band 66 | Emission Designator          | Emission Designator |
| BW(MHz)     | (99%OBW)QPSK                 | (99%OBW)16QAM       |
| 1.4         | 1M10G7D                      | 1M10W7D             |
| 3           | 2M70G7D                      | 2M72W7D             |
| 5           | 4M51G7D                      | 4M53W7D             |
| 10          | 9M0G7D                       | \                   |
| 15          | 13M5G7D                      | \                   |
| 20          | 17M9G7D                      | \                   |



### 3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power.

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

Radiated emissions were investigated as following frequency range:

1. 30 MHz to 10th harmonic for GSM850 and WCDMA Band V.
2. 30 MHz to 10th harmonic for WCDMA Band IV.
3. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

|          | TEST MODES                          |                                     |
|----------|-------------------------------------|-------------------------------------|
|          | RADIATED TCS                        | CONDUCTED TCS                       |
| BAND     |                                     |                                     |
| GSM 850  | GSM LINK<br>GPRS/EDGE CLASS 12 LINK | GSM LINK<br>GPRS/EDGE CLASS 12 LINK |
| GSM 1900 | GSM LINK<br>GPRS/EDGE CLASS 12 LINK | GSM LINK<br>GPRS/EDGE CLASS 12 LINK |



LTE:

| ITEMS                       | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|------|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
|                             |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 2    | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     | V    | V    | V    | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
| Peak&Avera Ratio            | 2    | V               | V | V | V  | V  | V  | V          | V     | V    |      |      | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     | V    |      |      | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     | V    |      |      | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     | V    |      |      | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     | V    |      |      | V            | V | V |
| 26dB&99% Bandwidth          | 2    | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     |      |      | V    | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     |      |      | V    | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            | V | V |
| Conducted Band Edge         | 2    | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            |   | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            |   | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     |      |      | V    | V            |   | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     |      |      | V    | V            |   | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     |      |      | V    | V            |   | V |
| Conducted Spurious Emission | 2    | V               | V | V | V  | V  | V  | V          | V     | V    |      | V    | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     | V    |      | V    | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     | V    |      | V    | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     | V    |      | V    | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     | V    |      | V    | V            | V | V |
| Frequency Stability         | 2    |                 |   |   | V  |    |    | V          |       |      |      | V    |              | V |   |
|                             | 4    |                 |   |   | V  |    |    | V          |       |      |      | V    |              | V |   |
|                             | 5    |                 |   |   | V  |    |    | V          |       |      |      | V    |              | V |   |
|                             | 7    |                 |   |   | V  |    |    | V          |       |      |      | V    |              | V |   |
|                             | 66   |                 |   |   | V  |    |    | V          |       |      |      | V    |              | V |   |
| E.R.P.& E.I.R.P.            | 2    | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          | V     | V    | V    | V    | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          | V     | V    | V    | V    | V            | V | V |
| Radiated Spurious Emission  | 2    | V               | V | V | V  | V  | V  | V          |       | V    |      |      | V            | V | V |
|                             | 4    | V               | V | V | V  | V  | V  | V          |       | V    |      |      | V            | V | V |
|                             | 5    | V               | V | V | V  |    |    | V          |       | V    |      |      | V            | V | V |
|                             | 7    |                 |   | V | V  | V  | V  | V          |       | V    |      |      | V            | V | V |
|                             | 12   | V               | V | V | V  |    |    | V          |       | V    |      |      | V            | V | V |
|                             | 66   | V               | V | V | V  | V  | V  | V          |       | V    |      |      | V            | V | V |



## 4 MEASUREMENT INSTRUMENTS

| RF Radiation Test Equipment         |                   |                    |                 |                  |                  |
|-------------------------------------|-------------------|--------------------|-----------------|------------------|------------------|
| Kind of Equipment                   | Manufacturer      | Type No.           | Serial No.      | Last Calibration | Calibrated Until |
| Temperature & Humidity              | SW-108            | SuWei              | N/A             | 2023.03.03       | 2024.03.02       |
| Wireless Communications Test Set    | R&S               | CMW 500            | 117239          | 2023.03.01       | 2024.02.29       |
| Pre-Amplifier(0.1M-3GHz)            | EM                | EM330              | 060665          | 2023.02.28       | 2024.02.27       |
| Pre-Amplifier (1G-18GHz)            | SKET              | LNPA-01018G-45     | SK2018080901    | 2023.09.28       | 2024.09.27       |
| Positioning Controller              | MF                | MF-7802            | MF-780208587    | N/A              | N/A              |
| Signal Analyzer                     | R&S               | FSV 40-N           | 101823          | 2023.09.26       | 2024.09.25       |
| Switch Control Box                  | N/A               | N/A                | N/A             | N/A              | N/A              |
| Filter Box                          | BALUN Technology  | SU319E             | BL-SZ1530051    | N/A              | N/A              |
| Video Controller                    | SKET              | FCS C-3            | N/A             | N/A              | N/A              |
| Bilog Antenna                       | TESEQ             | CBL6111D           | 34678           | 2022.09.30       | 2024.09.29       |
| Horn Antenna                        | SCHWARZBECK       | BBHA 9120D         | 02014           | 2023.09.24       | 2025.09.23       |
| Antenna Mast                        | MF                | MFA-440H           | N/A             | N/A              | N/A              |
| Turn Table                          | MF                | N/A                | N/A             | N/A              | N/A              |
| AC Power Source                     | APC               | KDF-11010G         | F214050035      | N/A              | N/A              |
| DC Power Supply                     | Zhaoxin           | RXN 605D           | 20R605D11010081 | N/A              | N/A              |
| Test SW                             | EMC Test Software | 15.2.0.339         |                 |                  |                  |
|                                     | EZ-EMC            | Ver.STSLAB-03A1 RE |                 |                  |                  |
| RF Connected Test Equipment         |                   |                    |                 |                  |                  |
| Kind of Equipment                   | Manufacturer      | Type No.           | Serial No.      | Last Calibration | Calibrated Until |
| Temperature & Humidity              | SW-108            | SuWei              | N/A             | 2023.03.03       | 2024.03.02       |
| Wireless Communications Test Set    | R&S               | CMW 500            | 131428          | 2023.03.01       | 2024.02.29       |
| Signal Analyzer                     | Agilent           | N9020A             | MY52440124      | 2023.03.01       | 2024.02.29       |
| RF Automatic Test System            | Maiwei            | MW200-SFCB         | N/A             | N/A              | N/A              |
| Temperature & Humidity Test Chamber | Safety test       | AG80L              | 171200018       | 2023.03.01       | 2024.02.29       |
| Programmable Power Supply           | Agilent           | E3642A             | MY40002025      | 2023.09.26       | 2024.09.25       |
| Test SW                             | MTS 8200          | 2.0.0.0            |                 |                  |                  |

## 5 TEST ITEMS

### 5.1 CONDUCTED OUTPUT POWER&TRANSMITTER RADIATED POWER

#### TEST OVERVIEW

##### CONDUCTED OUTPUT POWER:

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

##### TRANSMITTER RADIATED POWER (EIRP/ERP)

Determining ERP and/or EIRP from conducted RF output power measurements according to ANSI C63.26 2015 Section 5.2.5.5.

In many cases, RF output power limits are specified in terms of the ERP or the EIRP. Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are defined as the product of the power supplied to the antenna and its gain (relative to a dipole antenna in the case of ERP, and relative to an isotropic antenna in the case of EIRP); however, when working in decibels (i.e., logarithmic scale), the ERP and EIRP represent the sum of the transmit antenna gain (in dBd or dBi, respectively) and the conducted RF output power (expressed in dB relative to watts or milliwatts).

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$(1) \text{ ERP or EIRP} = \text{PMeas} + \text{GT}$$

$$\text{ERP} = \text{EIRP} - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, e.g., dBm or dBW)

PMeas measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

The following equations demonstrate the mathematical relationship between ERP and EIRP:

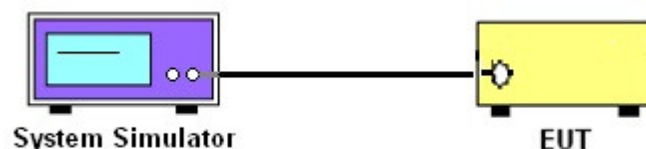
a)  $\text{ERP} = \text{EIRP} - 2.15$ , where ERP and EIRP are expressed in consistent units.

b)  $\text{EIRP} = \text{ERP} + 2.15$ , where ERP and EIRP are expressed in consistent units.

#### TEST PROCEDURES

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

#### TEST SETUP



TEST RESULT

| GSM 850            |                 |                           |                |           |               |                 |            |
|--------------------|-----------------|---------------------------|----------------|-----------|---------------|-----------------|------------|
| Mode               | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | ERP (dBm) | ERP Limit (W) | ERP Limit (dBm) | Conclusion |
| GPRS (GMSK,1-Slot) | 824.2           | 33.48                     | 3.14           | 34.47     | 7.00          | 38.45           | PASS       |
|                    | 836.6           | 33.26                     | 3.14           | 34.25     | 7.00          | 38.45           | PASS       |
|                    | 848.8           | 33.53                     | 3.14           | 34.52     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,2-Slot) | 824.2           | 31.37                     | 3.14           | 32.36     | 7.00          | 38.45           | PASS       |
|                    | 836.6           | 31.71                     | 3.14           | 32.70     | 7.00          | 38.45           | PASS       |
|                    | 848.8           | 31.7                      | 3.14           | 32.69     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,3-Slot) | 824.2           | 29.31                     | 3.14           | 30.30     | 7.00          | 38.45           | PASS       |
|                    | 836.6           | 29.41                     | 3.14           | 30.40     | 7.00          | 38.45           | PASS       |
|                    | 848.8           | 29.22                     | 3.14           | 30.21     | 7.00          | 38.45           | PASS       |
| GPRS (GMSK,4-Slot) | 824.2           | 27.22                     | 3.14           | 28.21     | 7.00          | 38.45           | PASS       |
|                    | 836.6           | 26.97                     | 3.14           | 27.96     | 7.00          | 38.45           | PASS       |
|                    | 848.8           | 26.93                     | 3.14           | 27.92     | 7.00          | 38.45           | PASS       |

| PCS 1900           |                 |                           |                |            |                |                  |            |
|--------------------|-----------------|---------------------------|----------------|------------|----------------|------------------|------------|
| Mode               | Frequency (MHz) | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit (W) | EIRP Limit (dBm) | Conclusion |
| GPRS (GMSK,1-Slot) | 1850.2          | 29.98                     | 0.62           | 30.60      | 2.00           | 33.01            | PASS       |
|                    | 1880.0          | 30.15                     | 0.62           | 30.77      | 2.00           | 33.01            | PASS       |
|                    | 1909.8          | 29.99                     | 0.62           | 30.61      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,2-Slot) | 1850.2          | 28.07                     | 0.62           | 28.69      | 2.00           | 33.01            | PASS       |
|                    | 1880.0          | 28.22                     | 0.62           | 28.84      | 2.00           | 33.01            | PASS       |
|                    | 1909.8          | 28.12                     | 0.62           | 28.74      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,3-Slot) | 1850.2          | 25.99                     | 0.62           | 26.61      | 2.00           | 33.01            | PASS       |
|                    | 1880.0          | 26.2                      | 0.62           | 26.82      | 2.00           | 33.01            | PASS       |
|                    | 1909.8          | 26.13                     | 0.62           | 26.75      | 2.00           | 33.01            | PASS       |
| GPRS (GMSK,4-Slot) | 1850.2          | 23.82                     | 0.62           | 24.44      | 2.00           | 33.01            | PASS       |
|                    | 1880.0          | 23.96                     | 0.62           | 24.58      | 2.00           | 33.01            | PASS       |
|                    | 1909.8          | 23.87                     | 0.62           | 24.49      | 2.00           | 33.01            | PASS       |

| Radiated Power (EIRP) for LTE Band 2 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 21.93                     | 0.62           | 22.55      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.64                     | 0.62           | 23.26      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 21.8                      | 0.62           | 22.42      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.34                     | 0.62           | 22.96      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 22.52                     | 0.62           | 23.14      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.24                     | 0.62           | 22.86      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.3                      | 0.62           | 21.92      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 20.73                     | 0.62           | 21.35      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 21.43                     | 0.62           | 22.05      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 20.63                     | 0.62           | 21.25      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 21.44                     | 0.62           | 22.06      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 21.62                     | 0.62           | 22.24      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 21.37                     | 0.62           | 21.99      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 20.51                     | 0.62           | 21.13      | 2.00          | 33.01           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 22.23                     | 0.62           | 22.85      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.5                      | 0.62           | 23.12      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.24                     | 0.62           | 22.86      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 21.37                     | 0.62           | 21.99      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 21.77                     | 0.62           | 22.39      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 22.42                     | 0.62           | 23.04      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.55                     | 0.62           | 22.17      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.2                      | 0.62           | 22.82      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 22.49                     | 0.62           | 23.11      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.17                     | 0.62           | 22.79      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 21.28                     | 0.62           | 21.90      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 20.92                     | 0.62           | 21.54      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 21.55                     | 0.62           | 22.17      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 20.65                     | 0.62           | 21.27      | 2.00          | 33.01           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 21.36                     | 0.62           | 21.98      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 21.53                     | 0.62           | 22.15      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 22.17                     | 0.62           | 22.79      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.88                     | 0.62           | 23.50      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 21.14                     | 0.62           | 21.76      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 21.48                     | 0.62           | 22.10      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 21.65                     | 0.62           | 22.27      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 21.28                     | 0.62           | 21.90      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 2         |            | 21.33                     | 0.62           | 21.95      | 2.00          | 33.01           | PASS    |
|                                            |            | 1       | 5         |            | 21.26                     | 0.62           | 21.88      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 0         |            | 22.11                     | 0.62           | 22.73      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 1         |            | 20.39                     | 0.62           | 21.01      | 2.00          | 33.01           | PASS    |
|                                            |            | 3       | 2         |            | 20.52                     | 0.62           | 21.14      | 2.00          | 33.01           | PASS    |
|                                            |            | 6       | 0         |            | 20.71                     | 0.62           | 21.33      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 20.38                     | 0.62           | 21.00      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 20.28                     | 0.62           | 20.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.51                     | 0.62           | 23.13      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 23.74                     | 0.62           | 24.36      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.91                     | 0.62           | 22.53      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.35                     | 0.62           | 22.97      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 21.32                     | 0.62           | 21.94      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.47                     | 0.62           | 23.09      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 23                        | 0.62           | 23.62      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 21.06                     | 0.62           | 21.68      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 21.67                     | 0.62           | 22.29      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.88                     | 0.62           | 22.50      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 21.43                     | 0.62           | 22.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 21.57                     | 0.62           | 22.19      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 21.59                     | 0.62           | 22.21      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 22.12                     | 0.62           | 22.74      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 20.12                     | 0.62           | 20.74      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 20.79                     | 0.62           | 21.41      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 20.89                     | 0.62           | 21.51      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 20.44                     | 0.62           | 21.06      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 20.44                     | 0.62           | 21.06      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.01                     | 0.62           | 22.63      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 22.14                     | 0.62           | 22.76      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 20.42                     | 0.62           | 21.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 20.16                     | 0.62           | 20.78      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 20.42                     | 0.62           | 21.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.71                     | 0.62           | 23.33      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 23.1                      | 0.62           | 23.72      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 22.77                     | 0.62           | 23.39      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 22.39                     | 0.62           | 23.01      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 22.28                     | 0.62           | 22.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 22.15                     | 0.62           | 22.77      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 22.31                     | 0.62           | 22.93      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 21.91                     | 0.62           | 22.53      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.37                     | 0.62           | 22.99      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.98                     | 0.62           | 22.60      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 7         |            | 21.52                     | 0.62           | 22.14      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 14        |            | 21.42                     | 0.62           | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 0         |            | 21.17                     | 0.62           | 21.79      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 4         |            | 21.28                     | 0.62           | 21.90      | 2.00          | 33.01           | PASS    |
|                                          |            | 8       | 7         |            | 22.62                     | 0.62           | 23.24      | 2.00          | 33.01           | PASS    |
|                                          |            | 15      | 0         |            | 22.65                     | 0.62           | 23.27      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /5M |            |         |           |            |                           |                  |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                        | Lowest     | 1       | 0         | QPSK       | 21.19                     | 0.62             | 21.81      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 20.88                     | 0.62             | 21.50      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 20.55                     | 0.62             | 21.17      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 20.93                     | 0.62             | 21.55      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.82                     | 0.62             | 22.44      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.36                     | 0.62             | 22.98      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.71                     | 0.62             | 22.33      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.43                     | 0.62             | 22.05      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.37                     | 0.62             | 21.99      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.12                     | 0.62             | 21.74      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.33                     | 0.62             | 21.95      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21                        | 0.62             | 21.62      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.6                      | 0.62             | 22.22      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 20.99                     | 0.62             | 21.61      | 2.00          | 33.01           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 22.95                     | 0.62             | 23.57      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 23.52                     | 0.62             | 24.14      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 22.41                     | 0.62             | 23.03      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.6                      | 0.62             | 23.22      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.39                     | 0.62             | 23.01      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.99                     | 0.62             | 22.61      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.39                     | 0.62             | 23.01      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 22.11                     | 0.62             | 22.73      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 22.68                     | 0.62             | 23.30      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.58                     | 0.62             | 22.20      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.66                     | 0.62             | 22.28      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.46                     | 0.62             | 22.08      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 21.02                     | 0.62             | 21.64      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 22.33                     | 0.62             | 22.95      | 2.00          | 33.01           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 23.12                     | 0.62             | 23.74      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.5                      | 0.62             | 22.12      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 20.93                     | 0.62             | 21.55      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 22.36                     | 0.62             | 22.98      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 22.2                      | 0.62             | 22.82      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 22.26                     | 0.62             | 22.88      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 21.14                     | 0.62             | 21.76      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.05                     | 0.62             | 21.67      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 12        |            | 21.35                     | 0.62             | 21.97      | 2.00          | 33.01           | PASS    |
|                                          |            | 1       | 24        |            | 21.45                     | 0.62             | 22.07      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 0         |            | 21.55                     | 0.62             | 22.17      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 6         |            | 21.42                     | 0.62             | 22.04      | 2.00          | 33.01           | PASS    |
|                                          |            | 12      | 11        |            | 23.41                     | 0.62             | 24.03      | 2.00          | 33.01           | PASS    |
|                                          |            | 25      | 0         |            | 23.28                     | 0.62             | 23.90      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 2 /10M |            |         |           |            |                           |                  |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                        | Lowest     | 1       | 0         | QPSK       | 22.75                     | 0.62             | 23.37      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 22.75                     | 0.62             | 23.37      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 22.52                     | 0.62             | 23.14      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 21.81                     | 0.62             | 22.43      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.3                      | 0.62             | 22.92      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.53                     | 0.62             | 23.15      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.41                     | 0.62             | 23.03      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 21.88                     | 0.62             | 22.50      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 21.7                      | 0.62             | 22.32      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 21.46                     | 0.62             | 22.08      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 20.75                     | 0.62             | 21.37      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 22.76                     | 0.62             | 23.38      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 23.3                      | 0.62             | 23.92      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.43                     | 0.62             | 23.05      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 22.44                     | 0.62             | 23.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 24        |            | 22.55                     | 0.62             | 23.17      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 21.92                     | 0.62             | 22.54      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 0         |            | 22.19                     | 0.62             | 22.81      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 12        |            | 21.84                     | 0.62             | 22.46      | 2.00          | 33.01           | PASS    |
|                                           |            | 25      | 24        |            | 22.44                     | 0.62             | 23.06      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 21.52                     | 0.62             | 22.14      | 2.00          | 33.01           | PASS    |



## Radiated Power (EIRP) for LTE Band 2 /15M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 15       | Lowest     | 1       | 0         | QPSK       | 22.26                     | 0.62             | 22.88      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 22.53                     | 0.62             | 23.15      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 22.86                     | 0.62             | 23.48      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 21.56                     | 0.62             | 22.18      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 21.62                     | 0.62             | 22.24      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 21.6                      | 0.62             | 22.22      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 21.54                     | 0.62             | 22.16      | 2.00          | 33.01           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 21.44                     | 0.62             | 22.06      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 21.78                     | 0.62             | 22.40      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 22.04                     | 0.62             | 22.66      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 23.21                     | 0.62             | 23.83      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 23.45                     | 0.62             | 24.07      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 22.23                     | 0.62             | 22.85      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 22.7                      | 0.62             | 23.32      | 2.00          | 33.01           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 22.43                     | 0.62             | 23.05      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 21.55                     | 0.62             | 22.17      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 22.14                     | 0.62             | 22.76      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 22.27                     | 0.62             | 22.89      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 22.58                     | 0.62             | 23.20      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 21.34                     | 0.62             | 21.96      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 21.6                      | 0.62             | 22.22      | 2.00          | 33.01           | PASS    |

## Radiated Power (EIRP) for LTE Band 2 /20M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 20       | Lowest     | 1       | 0         | QPSK       | 22.49                     | 0.62             | 23.11      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 23.36                     | 0.62             | 23.98      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 99        |            | 22.11                     | 0.62             | 22.73      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 22.14                     | 0.62             | 22.76      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 24        |            | 22.41                     | 0.62             | 23.03      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 49        |            | 21.9                      | 0.62             | 22.52      | 2.00          | 33.01           | PASS    |
|          |            | 100     | 0         |            | 21.99                     | 0.62             | 22.61      | 2.00          | 33.01           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 21.68                     | 0.62             | 22.30      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 22.59                     | 0.62             | 23.21      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 99        |            | 21.37                     | 0.62             | 21.99      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 23.25                     | 0.62             | 23.87      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 24        |            | 23.32                     | 0.62             | 23.94      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 49        |            | 22.40                     | 0.62             | 23.02      | 2.00          | 33.01           | PASS    |
|          |            | 100     | 0         |            | 22.44                     | 0.62             | 23.06      | 2.00          | 33.01           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 22.24                     | 0.62             | 22.86      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 23.77                     | 0.62             | 24.39      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 99        |            | 22.50                     | 0.62             | 23.12      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 22.20                     | 0.62             | 22.82      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 24        |            | 22.56                     | 0.62             | 23.18      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 49        |            | 21.33                     | 0.62             | 21.95      | 2.00          | 33.01           | PASS    |
|          |            | 100     | 0         |            | 21.55                     | 0.62             | 22.17      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                        | Lowest     | 1       | 0         | QPSK       | 22.71                     | 0.62           | 23.33      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 22.36                     | 0.62           | 22.98      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.65                     | 0.62           | 23.27      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 23.1                      | 0.62           | 23.72      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 23.27                     | 0.62           | 23.89      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 23.12                     | 0.62           | 23.74      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.14                     | 0.62           | 22.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 21.75                     | 0.62           | 22.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 22.45                     | 0.62           | 23.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 21.62                     | 0.62           | 22.24      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.23                     | 0.62           | 22.85      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.43                     | 0.62           | 23.05      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.3                      | 0.62           | 22.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 21.36                     | 0.62           | 21.98      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 22.61                     | 0.62           | 23.23      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.32                     | 0.62           | 23.94      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.61                     | 0.62           | 23.23      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.22                     | 0.62           | 22.84      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 21.14                     | 0.62           | 21.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.55                     | 0.62           | 23.17      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 23.3                      | 0.62           | 23.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 22.59                     | 0.62           | 23.21      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 23.05                     | 0.62           | 23.67      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 23.21                     | 0.62           | 23.83      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.91                     | 0.62           | 23.53      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 22.02                     | 0.62           | 22.64      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 21.75                     | 0.62           | 22.37      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.41                     | 0.62           | 23.03      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 21.66                     | 0.62           | 22.28      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 22.21                     | 0.62           | 22.83      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 22.4                      | 0.62           | 23.02      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.08                     | 0.62           | 22.70      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 21.3                      | 0.62           | 21.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 21.24                     | 0.62           | 21.86      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 21.28                     | 0.62           | 21.90      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 0         | 16QAM      | 21.5                      | 0.62           | 22.12      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 2         |            | 21.27                     | 0.62           | 21.89      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 5         |            | 21.16                     | 0.62           | 21.78      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 0         |            | 22.37                     | 0.62           | 22.99      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 1         |            | 23.64                     | 0.62           | 24.26      | 1.00          | 30.00           | PASS    |
|                                            |            | 3       | 2         |            | 22.11                     | 0.62           | 22.73      | 1.00          | 30.00           | PASS    |
|                                            |            | 6       | 0         |            | 22.2                      | 0.62           | 22.82      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /3M |            |         |           |            |                           |                |            |               |                 |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                        | Lowest     | 1       | 0         | QPSK       | 22.48                     | 0.62           | 23.10      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.23                     | 0.62           | 22.85      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.17                     | 0.62           | 22.79      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.5                      | 0.62           | 22.12      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.78                     | 0.62           | 23.40      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 21.12                     | 0.62           | 21.74      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.43                     | 0.62           | 23.05      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.69                     | 0.62           | 24.31      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.65                     | 0.62           | 23.27      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.44                     | 0.62           | 23.06      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.6                      | 0.62           | 23.22      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.21                     | 0.62           | 22.83      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.29                     | 0.62           | 22.91      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 21.51                     | 0.62           | 22.13      | 1.00          | 30.00           | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 22.89                     | 0.62           | 23.51      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22                        | 0.62           | 22.62      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 21.48                     | 0.62           | 22.10      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.67                     | 0.62           | 22.29      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 21.3                      | 0.62           | 21.92      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 21.25                     | 0.62           | 21.87      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.86                     | 0.62           | 23.48      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 23.11                     | 0.62           | 23.73      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 21.96                     | 0.62           | 22.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 21.1                      | 0.62           | 21.72      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 21.22                     | 0.62           | 21.84      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 22.4                      | 0.62           | 23.02      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.96                     | 0.62           | 23.58      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.13                     | 0.62           | 22.75      | 1.00          | 30.00           | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 22.13                     | 0.62           | 22.75      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 22.23                     | 0.62           | 22.85      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 22.26                     | 0.62           | 22.88      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.18                     | 0.62           | 22.80      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 21.59                     | 0.62           | 22.21      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.23                     | 0.62           | 22.85      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 21.35                     | 0.62           | 21.97      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 0         | 16QAM      | 21.12                     | 0.62           | 21.74      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 7         |            | 21.23                     | 0.62           | 21.85      | 1.00          | 30.00           | PASS    |
|                                          |            | 1       | 14        |            | 21.26                     | 0.62           | 21.88      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 0         |            | 22.72                     | 0.62           | 23.34      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 4         |            | 23.26                     | 0.62           | 23.88      | 1.00          | 30.00           | PASS    |
|                                          |            | 8       | 7         |            | 22.71                     | 0.62           | 23.33      | 1.00          | 30.00           | PASS    |
|                                          |            | 15      | 0         |            | 22.5                      | 0.62           | 23.12      | 1.00          | 30.00           | PASS    |



## Radiated Power (EIRP) for LTE Band 4 /5M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 5        | Lowest     | 1       | 0         | QPSK       | 22.48                     | 0.62             | 23.10      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 22.23                     | 0.62             | 22.85      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 22.41                     | 0.62             | 23.03      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 22.01                     | 0.62             | 22.63      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 22.61                     | 0.62             | 23.23      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 22.06                     | 0.62             | 22.68      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 21.52                     | 0.62             | 22.14      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.51                     | 0.62             | 22.13      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 21.28                     | 0.62             | 21.90      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 21.47                     | 0.62             | 22.09      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 22.64                     | 0.62             | 23.26      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 23.29                     | 0.62             | 23.91      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 20.85                     | 0.62             | 21.47      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 20.89                     | 0.62             | 21.51      | 1.00          | 30.00           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 22.09                     | 0.62             | 22.71      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 23.3                      | 0.62             | 23.92      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 22.12                     | 0.62             | 22.74      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 21.48                     | 0.62             | 22.10      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 21.79                     | 0.62             | 22.41      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 22.33                     | 0.62             | 22.95      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 22.16                     | 0.62             | 22.78      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.26                     | 0.62             | 21.88      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 22.57                     | 0.62             | 23.19      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 21.41                     | 0.62             | 22.03      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 20.41                     | 0.62             | 21.03      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 20.68                     | 0.62             | 21.30      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 21.32                     | 0.62             | 21.94      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 22.62                     | 0.62             | 23.24      | 1.00          | 30.00           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 23.18                     | 0.62             | 23.80      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 22.44                     | 0.62             | 23.06      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 22.52                     | 0.62             | 23.14      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 22.29                     | 0.62             | 22.91      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 22.32                     | 0.62             | 22.94      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 23.29                     | 0.62             | 23.91      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 22.81                     | 0.62             | 23.43      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 0         | 16QAM      | 22.35                     | 0.62             | 22.97      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 12        |            | 21.61                     | 0.62             | 22.23      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 21.46                     | 0.62             | 22.08      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 0         |            | 21.84                     | 0.62             | 22.46      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 6         |            | 22.09                     | 0.62             | 22.71      | 1.00          | 30.00           | PASS    |
|          |            | 12      | 11        |            | 22.45                     | 0.62             | 23.07      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 22.05                     | 0.62             | 22.67      | 1.00          | 30.00           | PASS    |



## Radiated Power (EIRP) for LTE Band 4 /10M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 10       | Lowest     | 1       | 0         | QPSK       | 22.1                      | 0.62             | 22.72      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 23.08                     | 0.62             | 23.70      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 49        |            | 22.7                      | 0.62             | 23.32      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 21.92                     | 0.62             | 22.54      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 12        |            | 22.32                     | 0.62             | 22.94      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 24        |            | 22.36                     | 0.62             | 22.98      | 1.00          | 30.00           | PASS    |
|          |            | 50      | 0         |            | 22.18                     | 0.62             | 22.80      | 1.00          | 30.00           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 21.31                     | 0.62             | 21.93      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 22.35                     | 0.62             | 22.97      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 49        |            | 21.92                     | 0.62             | 22.54      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 21                        | 0.62             | 21.62      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 12        |            | 23.1                      | 0.62             | 23.72      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 24        |            | 22.99                     | 0.62             | 23.61      | 1.00          | 30.00           | PASS    |
|          |            | 50      | 0         |            | 22.47                     | 0.62             | 23.09      | 1.00          | 30.00           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 22.43                     | 0.62             | 23.05      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 24        |            | 22.31                     | 0.62             | 22.93      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 49        |            | 22.57                     | 0.62             | 23.19      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 0         |            | 22.07                     | 0.62             | 22.69      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 12        |            | 22.35                     | 0.62             | 22.97      | 1.00          | 30.00           | PASS    |
|          |            | 25      | 24        |            | 22.19                     | 0.62             | 22.81      | 1.00          | 30.00           | PASS    |
|          |            | 50      | 0         |            | 21.65                     | 0.62             | 22.27      | 1.00          | 30.00           | PASS    |

## Radiated Power (EIRP) for LTE Band 4 /15M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 15       | Lowest     | 1       | 0         | QPSK       | 22.98                     | 0.62             | 23.60      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 37        |            | 23.03                     | 0.62             | 23.65      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 74        |            | 22.52                     | 0.62             | 23.14      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 0         |            | 22.16                     | 0.62             | 22.78      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 18        |            | 22.13                     | 0.62             | 22.75      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 39        |            | 21.95                     | 0.62             | 22.57      | 1.00          | 30.00           | PASS    |
|          |            | 75      | 0         |            | 22.06                     | 0.62             | 22.68      | 1.00          | 30.00           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 22.07                     | 0.62             | 22.69      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 37        |            | 22.23                     | 0.62             | 22.85      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 74        |            | 22.23                     | 0.62             | 22.85      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 0         |            | 23.3                      | 0.62             | 23.92      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 18        |            | 22.41                     | 0.62             | 23.03      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 39        |            | 21.72                     | 0.62             | 22.34      | 1.00          | 30.00           | PASS    |
|          |            | 75      | 0         |            | 22.34                     | 0.62             | 22.96      | 1.00          | 30.00           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 22.23                     | 0.62             | 22.85      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 37        |            | 22.01                     | 0.62             | 22.63      | 1.00          | 30.00           | PASS    |
|          |            | 1       | 74        |            | 21.57                     | 0.62             | 22.19      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 0         |            | 22.56                     | 0.62             | 23.18      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 18        |            | 21.76                     | 0.62             | 22.38      | 1.00          | 30.00           | PASS    |
|          |            | 36      | 39        |            | 22.42                     | 0.62             | 23.04      | 1.00          | 30.00           | PASS    |
|          |            | 75      | 0         |            | 21.93                     | 0.62             | 22.55      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 4 /20M |            |         |           |            |                           |                  |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 22.86                     | 0.62             | 23.48      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 23.41                     | 0.62             | 24.03      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 22.69                     | 0.62             | 23.31      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.62                     | 0.62             | 23.24      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 22.48                     | 0.62             | 23.10      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 23.09                     | 0.62             | 23.71      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 22.14                     | 0.62             | 22.76      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 22.15                     | 0.62             | 22.77      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 22.76                     | 0.62             | 23.38      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 22.05                     | 0.62             | 22.67      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 22.53                     | 0.62             | 23.15      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 23.19                     | 0.62             | 23.81      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 22.77                     | 0.62             | 23.39      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 22.71                     | 0.62             | 23.33      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 22.56                     | 0.62             | 23.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 49        |            | 22.84                     | 0.62             | 23.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 99        |            | 22.08                     | 0.62             | 22.70      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 0         |            | 21.93                     | 0.62             | 22.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 24        |            | 22.54                     | 0.62             | 23.16      | 1.00          | 30.00           | PASS    |
|                                           |            | 50      | 49        |            | 21.85                     | 0.62             | 22.47      | 1.00          | 30.00           | PASS    |
|                                           |            | 100     | 0         |            | 23.71                     | 0.62             | 24.33      | 1.00          | 30.00           | PASS    |



| Radiated Power (ERP) for LTE Band 5 /1.4M |            |         |           |            |                           |                  |           |              |                |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|-----------|--------------|----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 1.4                                       | Lowest     | 1       | 0         | QPSK       | 23.36                     | 3.14             | 24.35     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.93                     | 3.14             | 24.92     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.22                     | 3.14             | 24.21     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.41                     | 3.14             | 24.40     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.63                     | 3.14             | 24.62     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 23.46                     | 3.14             | 24.45     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.45                     | 3.14             | 23.44     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.1                      | 3.14             | 23.09     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.84                     | 3.14             | 23.83     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 22.21                     | 3.14             | 23.20     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.54                     | 3.14             | 23.53     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 22.8                      | 3.14             | 23.79     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.65                     | 3.14             | 23.64     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 21.69                     | 3.14             | 22.68     | 7.00         | 38.45          | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 21.98                     | 3.14             | 22.97     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.54                     | 3.14             | 23.53     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 22.75                     | 3.14             | 23.74     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.38                     | 3.14             | 23.37     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 21.53                     | 3.14             | 22.52     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.79                     | 3.14             | 23.78     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.13                     | 3.14             | 24.12     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.39                     | 3.14             | 23.38     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 23.05                     | 3.14             | 24.04     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.12                     | 3.14             | 24.11     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 22.41                     | 3.14             | 23.40     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 21.69                     | 3.14             | 22.68     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22                        | 3.14             | 22.99     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.25                     | 3.14             | 23.24     | 7.00         | 38.45          | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 21.49                     | 3.14             | 22.48     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.23                     | 3.14             | 23.22     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 23.04                     | 3.14             | 24.03     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 24.34                     | 3.14             | 25.33     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 23.28                     | 3.14             | 24.27     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 22.69                     | 3.14             | 23.68     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 23.01                     | 3.14             | 24.00     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.76                     | 3.14             | 23.75     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 2         |            | 22.69                     | 3.14             | 23.68     | 7.00         | 38.45          | PASS    |
|                                           |            | 1       | 5         |            | 22.23                     | 3.14             | 23.22     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 0         |            | 23.47                     | 3.14             | 24.46     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 1         |            | 22.53                     | 3.14             | 23.52     | 7.00         | 38.45          | PASS    |
|                                           |            | 3       | 2         |            | 21.81                     | 3.14             | 22.80     | 7.00         | 38.45          | PASS    |
|                                           |            | 6       | 0         |            | 22.15                     | 3.14             | 23.14     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /3M |            |         |           |            |                           |                  |           |              |                |         |
|-----------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|-----------|--------------|----------------|---------|
| BW (MHz)                                | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 3                                       | Lowest     | 1       | 0         | QPSK       | 21.94                     | 3.14             | 22.93     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 21.75                     | 3.14             | 22.74     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 22.79                     | 3.14             | 23.78     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 23.8                      | 3.14             | 24.79     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.93                     | 3.14             | 22.92     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.55                     | 3.14             | 22.54     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 21.41                     | 3.14             | 22.40     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.21                     | 3.14             | 24.20     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.63                     | 3.14             | 24.62     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 22.45                     | 3.14             | 23.44     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.43                     | 3.14             | 23.42     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 22.49                     | 3.14             | 23.48     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.91                     | 3.14             | 22.90     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.14                     | 3.14             | 23.13     | 7.00         | 38.45          | PASS    |
|                                         | Middle     | 1       | 0         | QPSK       | 22.43                     | 3.14             | 23.42     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 22.87                     | 3.14             | 23.86     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 21.64                     | 3.14             | 22.63     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 21.61                     | 3.14             | 22.60     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.69                     | 3.14             | 22.68     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 21.14                     | 3.14             | 22.13     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 21.22                     | 3.14             | 22.21     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 23.23                     | 3.14             | 24.22     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 23.64                     | 3.14             | 24.63     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 21.6                      | 3.14             | 22.59     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 21.7                      | 3.14             | 22.69     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.94                     | 3.14             | 22.93     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23                        | 3.14             | 23.99     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 23.23                     | 3.14             | 24.22     | 7.00         | 38.45          | PASS    |
|                                         | Highest    | 1       | 0         | QPSK       | 23.31                     | 3.14             | 24.30     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 21.99                     | 3.14             | 22.98     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 21.92                     | 3.14             | 22.91     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 22.35                     | 3.14             | 23.34     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 22.44                     | 3.14             | 23.43     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 22.26                     | 3.14             | 23.25     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.5                      | 3.14             | 23.49     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 0         | 16QAM      | 22.6                      | 3.14             | 23.59     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 7         |            | 21.2                      | 3.14             | 22.19     | 7.00         | 38.45          | PASS    |
|                                         |            | 1       | 14        |            | 21.13                     | 3.14             | 22.12     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 0         |            | 21.45                     | 3.14             | 22.44     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 4         |            | 21.5                      | 3.14             | 22.49     | 7.00         | 38.45          | PASS    |
|                                         |            | 8       | 7         |            | 23.6                      | 3.14             | 24.59     | 7.00         | 38.45          | PASS    |
|                                         |            | 15      | 0         |            | 22.80                     | 3.14             | 23.79     | 7.00         | 38.45          | PASS    |



## Radiated Power (ERP) for LTE Band 5 /5M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|-----------|--------------|----------------|---------|
| 5        | Lowest     | 1       | 0         | QPSK       | 21.87                     | 3.14             | 22.86     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 21.67                     | 3.14             | 22.66     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 21.31                     | 3.14             | 22.30     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 21.68                     | 3.14             | 22.67     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 23.47                     | 3.14             | 24.46     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 23.8                      | 3.14             | 24.79     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 21.83                     | 3.14             | 22.82     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 0         | 16QAM      | 22.63                     | 3.14             | 23.62     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 22.59                     | 3.14             | 23.58     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 21.75                     | 3.14             | 22.74     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 22.77                     | 3.14             | 23.76     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 22.69                     | 3.14             | 23.68     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 23.11                     | 3.14             | 24.10     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 21.17                     | 3.14             | 22.16     | 7.00         | 38.45          | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 21.8                      | 3.14             | 22.79     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 21.67                     | 3.14             | 22.66     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 20.87                     | 3.14             | 21.86     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 23.07                     | 3.14             | 24.06     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 23.63                     | 3.14             | 24.62     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 23.81                     | 3.14             | 24.80     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 22.08                     | 3.14             | 23.07     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.89                     | 3.14             | 22.88     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 22.85                     | 3.14             | 23.84     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 22.54                     | 3.14             | 23.53     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 22.35                     | 3.14             | 23.34     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 22.9                      | 3.14             | 23.89     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 23.11                     | 3.14             | 24.10     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 21.21                     | 3.14             | 22.20     | 7.00         | 38.45          | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 21.05                     | 3.14             | 22.04     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 22.02                     | 3.14             | 23.01     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 22.44                     | 3.14             | 23.43     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 23.84                     | 3.14             | 24.83     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 22.63                     | 3.14             | 23.62     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 21.66                     | 3.14             | 22.65     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 22.12                     | 3.14             | 23.11     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.15                     | 3.14             | 22.14     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 12        |            | 22.22                     | 3.14             | 23.21     | 7.00         | 38.45          | PASS    |
|          |            | 1       | 24        |            | 23.22                     | 3.14             | 24.21     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 0         |            | 23.80                     | 3.14             | 24.79     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 6         |            | 21.99                     | 3.14             | 22.98     | 7.00         | 38.45          | PASS    |
|          |            | 12      | 11        |            | 22.48                     | 3.14             | 23.47     | 7.00         | 38.45          | PASS    |
|          |            | 25      | 0         |            | 21.9                      | 3.14             | 22.89     | 7.00         | 38.45          | PASS    |



| Radiated Power (ERP) for LTE Band 5 /10M |            |         |           |            |                           |                  |           |              |                |         |
|------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|-----------|--------------|----------------|---------|
| BW (MHz)                                 | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | ERP (dBm) | ERP Limit(W) | ERP Limit(dBm) | Verdict |
| 10                                       | Lowest     | 1       | 0         | QPSK       | 22.45                     | 3.14             | 23.44     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 21.65                     | 3.14             | 22.64     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 22.43                     | 3.14             | 23.42     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 22.90                     | 3.14             | 23.89     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 22.91                     | 3.14             | 23.90     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 20.77                     | 3.14             | 21.76     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 21.96                     | 3.14             | 22.95     | 7.00         | 38.45          | PASS    |
|                                          | Middle     | 1       | 0         | QPSK       | 21.43                     | 3.14             | 22.42     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 20.47                     | 3.14             | 21.46     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 24.42                     | 3.14             | 25.41     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.33                     | 3.14             | 24.32     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.44                     | 3.14             | 24.43     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 21.66                     | 3.14             | 22.65     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 21.48                     | 3.14             | 22.47     | 7.00         | 38.45          | PASS    |
|                                          | Highest    | 1       | 0         | QPSK       | 22.80                     | 3.14             | 23.79     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 24        |            | 22.84                     | 3.14             | 23.83     | 7.00         | 38.45          | PASS    |
|                                          |            | 1       | 49        |            | 22.34                     | 3.14             | 23.33     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 0         |            | 23.00                     | 3.14             | 23.99     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 12        |            | 23.18                     | 3.14             | 24.17     | 7.00         | 38.45          | PASS    |
|                                          |            | 25      | 24        |            | 21.31                     | 3.14             | 22.30     | 7.00         | 38.45          | PASS    |
|                                          |            | 50      | 0         |            | 21.60                     | 3.14             | 22.59     | 7.00         | 38.45          | PASS    |



## Radiated Power (EIRP) for LTE Band 7 /5M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 5        | Lowest     | 1       | 0         | QPSK       | 22.73                     | 1.2              | 23.93      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 23.24                     | 1.2              | 24.44      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 22.48                     | 1.2              | 23.68      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 21.99                     | 1.2              | 23.19      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 21.88                     | 1.2              | 23.08      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 22.02                     | 1.2              | 23.22      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 22.45                     | 1.2              | 23.65      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.83                     | 1.2              | 23.03      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 22.37                     | 1.2              | 23.57      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 21.71                     | 1.2              | 22.91      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 21.12                     | 1.2              | 22.32      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 23.3                      | 1.2              | 24.50      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 24                        | 1.2              | 25.20      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 23.15                     | 1.2              | 24.35      | 2.00          | 33.01           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 22.59                     | 1.2              | 23.79      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 22.54                     | 1.2              | 23.74      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 22.35                     | 1.2              | 23.55      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 23.22                     | 1.2              | 24.42      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 22.66                     | 1.2              | 23.86      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 23.33                     | 1.2              | 24.53      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 22.52                     | 1.2              | 23.72      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.6                      | 1.2              | 22.80      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 21.58                     | 1.2              | 22.78      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 21.4                      | 1.2              | 22.60      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 22.21                     | 1.2              | 23.41      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 21.63                     | 1.2              | 22.83      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 19.83                     | 1.2              | 21.03      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 19.89                     | 1.2              | 21.09      | 2.00          | 33.01           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 20.38                     | 1.2              | 21.58      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 20.56                     | 1.2              | 21.76      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 22.74                     | 1.2              | 23.94      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 23.22                     | 1.2              | 24.42      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 22.13                     | 1.2              | 23.33      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 21.93                     | 1.2              | 23.13      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 21.7                      | 1.2              | 22.90      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 0         | 16QAM      | 21.54                     | 1.2              | 22.74      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 12        |            | 22.4                      | 1.2              | 23.60      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 23.26                     | 1.2              | 24.46      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 0         |            | 24.12                     | 1.2              | 25.32      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 6         |            | 22.67                     | 1.2              | 23.87      | 2.00          | 33.01           | PASS    |
|          |            | 12      | 11        |            | 22.75                     | 1.2              | 23.95      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 22.67                     | 1.2              | 23.87      | 2.00          | 33.01           | PASS    |



## Radiated Power (EIRP) for LTE Band 7 /10M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 10       | Lowest     | 1       | 0         | QPSK       | 22.7                      | 1.2              | 23.90      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 23.19                     | 1.2              | 24.39      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 22.34                     | 1.2              | 23.54      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 23.3                      | 1.2              | 24.50      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 12        |            | 21.88                     | 1.2              | 23.08      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 24        |            | 21.78                     | 1.2              | 22.98      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 21.76                     | 1.2              | 22.96      | 2.00          | 33.01           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 20.93                     | 1.2              | 22.13      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 22.13                     | 1.2              | 23.33      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 21.52                     | 1.2              | 22.72      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 20.27                     | 1.2              | 21.47      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 12        |            | 20.42                     | 1.2              | 21.62      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 24        |            | 21.45                     | 1.2              | 22.65      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 21.14                     | 1.2              | 22.34      | 2.00          | 33.01           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 19.93                     | 1.2              | 21.13      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 24        |            | 21.35                     | 1.2              | 22.55      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 49        |            | 20.68                     | 1.2              | 21.88      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 0         |            | 19.26                     | 1.2              | 20.46      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 12        |            | 19.47                     | 1.2              | 20.67      | 2.00          | 33.01           | PASS    |
|          |            | 25      | 24        |            | 23.11                     | 1.2              | 24.31      | 2.00          | 33.01           | PASS    |
|          |            | 50      | 0         |            | 23.16                     | 1.2              | 24.36      | 2.00          | 33.01           | PASS    |

## Radiated Power (EIRP) for LTE Band 7 /15M

| BW (MHz) | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
|----------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| 15       | Lowest     | 1       | 0         | QPSK       | 22.29                     | 1.2              | 23.49      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 22.04                     | 1.2              | 23.24      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 21.76                     | 1.2              | 22.96      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 21.15                     | 1.2              | 22.35      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 22.36                     | 1.2              | 23.56      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 22.25                     | 1.2              | 23.45      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 22.34                     | 1.2              | 23.54      | 2.00          | 33.01           | PASS    |
|          | Middle     | 1       | 0         | QPSK       | 21.45                     | 1.2              | 22.65      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 23.33                     | 1.2              | 24.53      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 24.09                     | 1.2              | 25.29      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 22.9                      | 1.2              | 24.10      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 22.65                     | 1.2              | 23.85      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 22.66                     | 1.2              | 23.86      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 23.03                     | 1.2              | 24.23      | 2.00          | 33.01           | PASS    |
|          | Highest    | 1       | 0         | QPSK       | 23.15                     | 1.2              | 24.35      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 37        |            | 22.55                     | 1.2              | 23.75      | 2.00          | 33.01           | PASS    |
|          |            | 1       | 74        |            | 21.13                     | 1.2              | 22.33      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 0         |            | 21.61                     | 1.2              | 22.81      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 18        |            | 22.14                     | 1.2              | 23.34      | 2.00          | 33.01           | PASS    |
|          |            | 36      | 39        |            | 20.01                     | 1.2              | 21.21      | 2.00          | 33.01           | PASS    |
|          |            | 75      | 0         |            | 20.14                     | 1.2              | 21.34      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 7 /20M |            |         |           |            |                           |                  |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|------------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain ( dBi ) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                        | Lowest     | 1       | 0         | QPSK       | 21.7                      | 1.2              | 22.90      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 20.8                      | 1.2              | 22.00      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 20.16                     | 1.2              | 21.36      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 23.01                     | 1.2              | 24.21      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.22                     | 1.2              | 24.42      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 22.41                     | 1.2              | 23.61      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 21.94                     | 1.2              | 23.14      | 2.00          | 33.01           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 21.71                     | 1.2              | 22.91      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 20.39                     | 1.2              | 21.59      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 22.1                      | 1.2              | 23.30      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.11                     | 1.2              | 23.31      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 23.3                      | 1.2              | 24.50      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 24.24                     | 1.2              | 25.44      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 22.76                     | 1.2              | 23.96      | 2.00          | 33.01           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 22.82                     | 1.2              | 24.02      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 49        |            | 22.88                     | 1.2              | 24.08      | 2.00          | 33.01           | PASS    |
|                                           |            | 1       | 99        |            | 23.11                     | 1.2              | 24.31      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 0         |            | 22.95                     | 1.2              | 24.15      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 24        |            | 22.44                     | 1.2              | 23.64      | 2.00          | 33.01           | PASS    |
|                                           |            | 50      | 49        |            | 21.65                     | 1.2              | 22.85      | 2.00          | 33.01           | PASS    |
|                                           |            | 100     | 0         |            | 21.6                      | 1.2              | 22.80      | 2.00          | 33.01           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /1.4M |            |         |           |            |                           |                |            |               |                 |         |
|---------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                    | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 1.4                                         | Lowest     | 1       | 0         | QPSK       | 23.07                     | 1.75           | 24.82      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.69                     | 1.75           | 25.44      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 22.87                     | 1.75           | 24.62      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.48                     | 1.75           | 25.23      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 23.67                     | 1.75           | 25.42      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 23.41                     | 1.75           | 25.16      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         | 16QAM      | 22.44                     | 1.75           | 24.19      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         |            | 21.83                     | 1.75           | 23.58      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 22.56                     | 1.75           | 24.31      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 21.77                     | 1.75           | 23.52      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.42                     | 1.75           | 24.17      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.61                     | 1.75           | 24.36      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 23.17                     | 1.75           | 24.92      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 23.75                     | 1.75           | 25.50      | 1.00          | 30.00           | PASS    |
|                                             | Middle     | 1       | 0         | QPSK       | 22.94                     | 1.75           | 24.69      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 23.6                      | 1.75           | 25.35      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.77                     | 1.75           | 25.52      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.51                     | 1.75           | 25.26      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.58                     | 1.75           | 24.33      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 21.98                     | 1.75           | 23.73      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         | 16QAM      | 22.91                     | 1.75           | 24.66      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         |            | 23.55                     | 1.75           | 25.30      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 22.73                     | 1.75           | 24.48      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 23.36                     | 1.75           | 25.11      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 23.54                     | 1.75           | 25.29      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 23.28                     | 1.75           | 25.03      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.32                     | 1.75           | 24.07      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 21.73                     | 1.75           | 23.48      | 1.00          | 30.00           | PASS    |
|                                             | Highest    | 1       | 0         | QPSK       | 22.48                     | 1.75           | 24.23      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 21.71                     | 1.75           | 23.46      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 22.35                     | 1.75           | 24.10      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.56                     | 1.75           | 24.31      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.31                     | 1.75           | 24.06      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 21.4                      | 1.75           | 23.15      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         | 16QAM      | 22.99                     | 1.75           | 24.74      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 0         |            | 24.07                     | 1.75           | 25.82      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 2         |            | 22.26                     | 1.75           | 24.01      | 1.00          | 30.00           | PASS    |
|                                             |            | 1       | 5         |            | 22.6                      | 1.75           | 24.35      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 0         |            | 22.8                      | 1.75           | 24.55      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 1         |            | 22.46                     | 1.75           | 24.21      | 1.00          | 30.00           | PASS    |
|                                             |            | 3       | 2         |            | 22.48                     | 1.75           | 24.23      | 1.00          | 30.00           | PASS    |
|                                             |            | 6       | 0         |            | 22.1                      | 1.75           | 23.85      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /3M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 3                                         | Lowest     | 1       | 0         | QPSK       | 23.22                     | 1.75           | 24.97      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 21.43                     | 1.75           | 23.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 21.51                     | 1.75           | 23.26      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 21.86                     | 1.75           | 23.61      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 21.54                     | 1.75           | 23.29      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 21.45                     | 1.75           | 23.20      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 23.21                     | 1.75           | 24.96      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 24.14                     | 1.75           | 25.89      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 22.38                     | 1.75           | 24.13      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 22.8                      | 1.75           | 24.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.96                     | 1.75           | 24.71      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.61                     | 1.75           | 24.36      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.67                     | 1.75           | 24.42      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.29                     | 1.75           | 24.04      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.31                     | 1.75           | 25.06      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 21.55                     | 1.75           | 23.30      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 21.6                      | 1.75           | 23.35      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 21.81                     | 1.75           | 23.56      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 21.01                     | 1.75           | 22.76      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.16                     | 1.75           | 23.91      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.32                     | 1.75           | 24.07      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 23.84                     | 1.75           | 25.59      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 22.68                     | 1.75           | 24.43      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 22.46                     | 1.75           | 24.21      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 22.71                     | 1.75           | 24.46      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 22.41                     | 1.75           | 24.16      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.39                     | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 21.44                     | 1.75           | 23.19      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.05                     | 1.75           | 24.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 21.93                     | 1.75           | 23.68      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 21.36                     | 1.75           | 23.11      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 21.62                     | 1.75           | 23.37      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 21.49                     | 1.75           | 23.24      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 21.34                     | 1.75           | 23.09      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 21.72                     | 1.75           | 23.47      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 21.59                     | 1.75           | 23.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 7         |            | 21.38                     | 1.75           | 23.13      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 14        |            | 21.59                     | 1.75           | 23.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 0         |            | 23.26                     | 1.75           | 25.01      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 4         |            | 23.43                     | 1.75           | 25.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 8       | 7         |            | 22.29                     | 1.75           | 24.04      | 1.00          | 30.00           | PASS    |
|                                           |            | 15      | 0         |            | 22.73                     | 1.75           | 24.48      | 1.00          | 30.00           | PASS    |

| Radiated Power (EIRP) for LTE Band 66 /5M |            |         |           |            |                           |                |            |               |                 |         |
|-------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                  | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 5                                         | Lowest     | 1       | 0         | QPSK       | 22.39                     | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.16                     | 1.75           | 24.91      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 22.8                      | 1.75           | 24.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.39                     | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.37                     | 1.75           | 24.12      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.29                     | 1.75           | 24.04      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.33                     | 1.75           | 24.08      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 21.65                     | 1.75           | 23.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 22.52                     | 1.75           | 24.27      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 22.04                     | 1.75           | 23.79      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 21.41                     | 1.75           | 23.16      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 21.39                     | 1.75           | 23.14      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 21.32                     | 1.75           | 23.07      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 21.38                     | 1.75           | 23.13      | 1.00          | 30.00           | PASS    |
|                                           | Middle     | 1       | 0         | QPSK       | 23.18                     | 1.75           | 24.93      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.6                      | 1.75           | 25.35      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 21.8                      | 1.75           | 23.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.68                     | 1.75           | 24.43      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.48                     | 1.75           | 24.23      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.07                     | 1.75           | 23.82      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.35                     | 1.75           | 24.10      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.85                     | 1.75           | 24.60      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.65                     | 1.75           | 25.40      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 22.1                      | 1.75           | 23.85      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.91                     | 1.75           | 24.66      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.77                     | 1.75           | 24.52      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 22.26                     | 1.75           | 24.01      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.63                     | 1.75           | 25.38      | 1.00          | 30.00           | PASS    |
|                                           | Highest    | 1       | 0         | QPSK       | 23.19                     | 1.75           | 24.94      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 22.55                     | 1.75           | 24.30      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 22.58                     | 1.75           | 24.33      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.49                     | 1.75           | 24.24      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.59                     | 1.75           | 24.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 23.37                     | 1.75           | 25.12      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 23.05                     | 1.75           | 24.80      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 0         | 16QAM      | 22.98                     | 1.75           | 24.73      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 12        |            | 23.59                     | 1.75           | 25.34      | 1.00          | 30.00           | PASS    |
|                                           |            | 1       | 24        |            | 22.2                      | 1.75           | 23.95      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 0         |            | 22.43                     | 1.75           | 24.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 6         |            | 22.43                     | 1.75           | 24.18      | 1.00          | 30.00           | PASS    |
|                                           |            | 12      | 11        |            | 21.8                      | 1.75           | 23.55      | 1.00          | 30.00           | PASS    |
|                                           |            | 25      | 0         |            | 22.64                     | 1.75           | 24.39      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /10M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 10                                         | Lowest     | 1       | 0         | QPSK       | 23.04                     | 1.75           | 24.79      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.47                     | 1.75           | 25.22      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 22.84                     | 1.75           | 24.59      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 22.54                     | 1.75           | 24.29      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 22.73                     | 1.75           | 24.48      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 22.51                     | 1.75           | 24.26      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.51                     | 1.75           | 24.26      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 22.76                     | 1.75           | 24.51      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.74                     | 1.75           | 25.49      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 21.59                     | 1.75           | 23.34      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 22.44                     | 1.75           | 24.19      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 22.32                     | 1.75           | 24.07      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 22.51                     | 1.75           | 24.26      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 0                         | 1.75           | 1.75       | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 23.16                     | 1.75           | 24.91      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 24        |            | 23.64                     | 1.75           | 25.39      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.09                     | 1.75           | 24.84      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 0         |            | 22.5                      | 1.75           | 24.25      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 12        |            | 22.63                     | 1.75           | 24.38      | 1.00          | 30.00           | PASS    |
|                                            |            | 25      | 24        |            | 22.37                     | 1.75           | 24.12      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.39                     | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |

| Radiated Power (EIRP) for LTE Band 66 /15M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 15                                         | Lowest     | 1       | 0         | QPSK       | 22.668                    | 1.75           | 24.42      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.641                    | 1.75           | 25.39      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 21.806                    | 1.75           | 23.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 22.694                    | 1.75           | 24.44      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 22.17                     | 1.75           | 23.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 22.552                    | 1.75           | 24.30      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 22.643                    | 1.75           | 24.39      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.46                     | 1.75           | 25.21      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 23.701                    | 1.75           | 25.45      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 22.821                    | 1.75           | 24.57      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 22.263                    | 1.75           | 24.01      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 22.501                    | 1.75           | 24.25      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 22.354                    | 1.75           | 24.10      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 22.035                    | 1.75           | 23.78      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 22.396                    | 1.75           | 24.15      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 37        |            | 24.009                    | 1.75           | 25.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 74        |            | 21.421                    | 1.75           | 23.17      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 0         |            | 22.473                    | 1.75           | 24.22      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 18        |            | 22.566                    | 1.75           | 24.32      | 1.00          | 30.00           | PASS    |
|                                            |            | 36      | 39        |            | 22.167                    | 1.75           | 23.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 75      | 0         |            | 22.403                    | 1.75           | 24.15      | 1.00          | 30.00           | PASS    |



| Radiated Power (EIRP) for LTE Band 66 /20M |            |         |           |            |                           |                |            |               |                 |         |
|--------------------------------------------|------------|---------|-----------|------------|---------------------------|----------------|------------|---------------|-----------------|---------|
| BW (MHz)                                   | UL Channel | RB Size | RB offset | Modulation | Conduction AVG Power(dBm) | Ant Gain (dBi) | EIRP (dBm) | EIRP Limit(W) | EIRP Limit(dBm) | Verdict |
| 20                                         | Lowest     | 1       | 0         | QPSK       | 22.88                     | 1.75           | 24.63      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.419                    | 1.75           | 25.17      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 21.42                     | 1.75           | 23.17      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.009                    | 1.75           | 23.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 22.009                    | 1.75           | 23.76      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 22.151                    | 1.75           | 23.90      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 23.057                    | 1.75           | 24.81      | 1.00          | 30.00           | PASS    |
|                                            | Middle     | 1       | 0         | QPSK       | 23.288                    | 1.75           | 25.04      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 23.31                     | 1.75           | 25.06      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 22.813                    | 1.75           | 24.56      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.389                    | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 22.68                     | 1.75           | 24.43      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 22.457                    | 1.75           | 24.21      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 22.469                    | 1.75           | 24.22      | 1.00          | 30.00           | PASS    |
|                                            | Highest    | 1       | 0         | QPSK       | 22.585                    | 1.75           | 24.34      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 49        |            | 24.17                     | 1.75           | 25.92      | 1.00          | 30.00           | PASS    |
|                                            |            | 1       | 99        |            | 21.75                     | 1.75           | 23.50      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 0         |            | 22.155                    | 1.75           | 23.90      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 24        |            | 22.219                    | 1.75           | 23.97      | 1.00          | 30.00           | PASS    |
|                                            |            | 50      | 49        |            | 22.394                    | 1.75           | 24.14      | 1.00          | 30.00           | PASS    |
|                                            |            | 100     | 0         |            | 22.889                    | 1.75           | 24.64      | 1.00          | 30.00           | PASS    |

## 5.2 PEAK TO AVERAGE RATIO

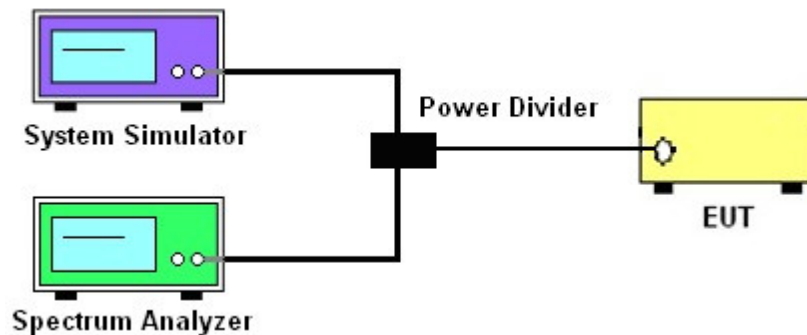
### TEST OVERVIEW

According to §24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of §24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 db.

### TEST PROCEDURES

1. The testing follows FCC KDB 971168 v03r01 section.
2. The eut was connected to the peak and av system simulator& spectrum analyzer.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure average power of the spectrum analysis,

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment “STS2312336W02\_Appendix GSM” and “STS2312336W02\_Appendix LTE”.

### 5.3 OCCUPIED BANDWIDTH

#### TEST OVERVIEW

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

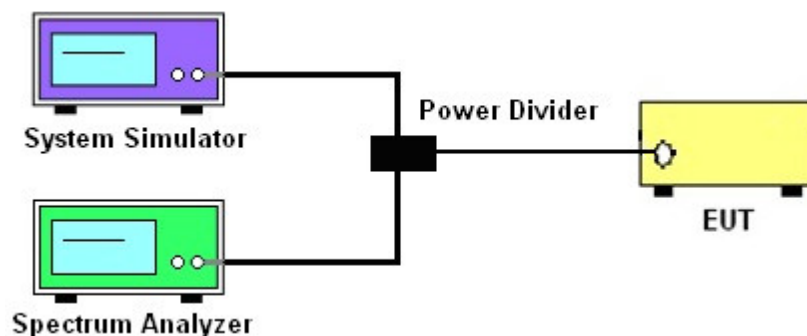
The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

All modes of operation were investigated and the worst case configuration results are reported in this section.

#### TEST PROCEDURE

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

#### TEST SETUP



#### TEST RESULT

Note: The test data please reference to attachment "STS2312336W02\_Appendix GSM" and "STS2312336W02\_Appendix LTE".

## 5.4 FREQUENCY STABILITY

### TEST OVERVIEW

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26 2015.

The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency. For Part 24 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

### TEST PROCEDURE

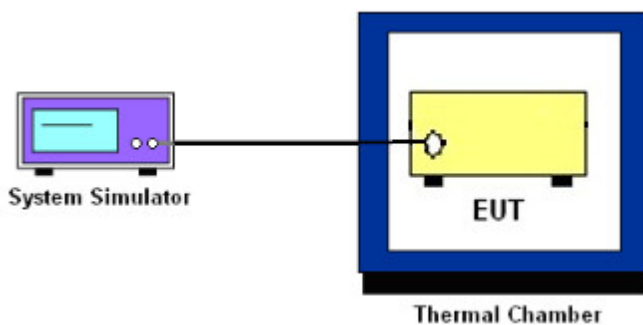
#### Temperature Variation

1. The testing follows FCC KDB 971168 D01 section 9.0
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### Voltage Variation

1. The testing follows FCC KDB 971168 D01 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25 \pm 5^\circ \text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

### TEST SETUP



TEST RESULT

| GPRS 850 /836.6MHz |                   |                    |                     |        |        |
|--------------------|-------------------|--------------------|---------------------|--------|--------|
| Temperature (°C)   | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit  | Result |
| 50                 | Normal Voltage    | 34.85              | 0.042               | 2.5ppm | PASS   |
| 40                 |                   | 36.30              | 0.043               |        |        |
| 30                 |                   | 32.75              | 0.039               |        |        |
| 20                 |                   | 20.28              | 0.024               |        |        |
| 10                 |                   | 20.23              | 0.024               |        |        |
| 0                  |                   | 11.52              | 0.014               |        |        |
| -10                |                   | 23.14              | 0.028               |        |        |
| -20                |                   | 31.86              | 0.038               |        |        |
| -30                |                   | 24.16              | 0.029               |        |        |
| 20                 | Maximum Voltage   | 16.50              | 0.020               |        |        |
| 20                 | BEP               | 31.62              | 0.038               |        |        |

| GPRS 1900 / 1880MHz |                   |                    |                     |                        |        |
|---------------------|-------------------|--------------------|---------------------|------------------------|--------|
| Temperature (°C)    | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit                  | Result |
| 50                  | Normal Voltage    | 36.09              | 0.019               | Within Authorized Band | PASS   |
| 40                  |                   | 23.66              | 0.013               |                        |        |
| 30                  |                   | 32.44              | 0.017               |                        |        |
| 20                  |                   | 12.80              | 0.007               |                        |        |
| 10                  |                   | 26.50              | 0.014               |                        |        |
| 0                   |                   | 20.90              | 0.011               |                        |        |
| -10                 |                   | 14.55              | 0.008               |                        |        |
| -20                 |                   | 16.68              | 0.009               |                        |        |
| -30                 |                   | 30.08              | 0.016               |                        |        |
| 20                  | Maximum Voltage   | 21.61              | 0.011               |                        |        |
| 20                  | BEP               | 11.55              | 0.006               |                        |        |

| LTE Band 2 (QPSK) / 1880MHz / BW10M |                   |                    |                     |        |        |
|-------------------------------------|-------------------|--------------------|---------------------|--------|--------|
| Temperature (°C)                    | Voltage<br>(Volt) | Freq. Dev.<br>(Hz) | Freq. Dev.<br>(ppm) | Limit  | Result |
| 50                                  | Normal Voltage    | 11.79              | 0.006               | 2.5ppm | PASS   |
| 40                                  |                   | 16.99              | 0.009               |        |        |
| 30                                  |                   | 30.80              | 0.016               |        |        |
| 20                                  |                   | 18.52              | 0.010               |        |        |
| 10                                  |                   | 35.39              | 0.019               |        |        |
| 0                                   |                   | 17.76              | 0.009               |        |        |
| -10                                 |                   | 15.06              | 0.008               |        |        |
| -20                                 |                   | 30.96              | 0.016               |        |        |
| -30                                 |                   | 27.70              | 0.015               |        |        |
| 20                                  | Maximum Voltage   | 11.79              | 0.006               |        |        |
| 20                                  | BEP               | 34.15              | 0.018               |        |        |



| LTE Band 2 (QPSK) / 1880MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 31.18      | 0.017      | 2.5ppm | PASS   |
| 40                                  |                 | 31.51      | 0.017      |        |        |
| 30                                  |                 | 20.34      | 0.011      |        |        |
| 20                                  |                 | 34.89      | 0.019      |        |        |
| 10                                  |                 | 26.73      | 0.014      |        |        |
| 0                                   |                 | 15.03      | 0.008      |        |        |
| -10                                 |                 | 24.66      | 0.013      |        |        |
| -20                                 |                 | 30.59      | 0.016      |        |        |
| -30                                 |                 | 11.97      | 0.006      |        |        |
| 20                                  | Maximum Voltage | 15.46      | 0.008      |        |        |
| 20                                  | BEP             | 21.21      | 0.011      |        |        |

| LTE Band 4 (QPSK) / 1733MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 25.76      | 0.015      | 2.5ppm | PASS   |
| 40                                  |                 | 32.09      | 0.019      |        |        |
| 30                                  |                 | 23.26      | 0.013      |        |        |
| 20                                  |                 | 16.67      | 0.010      |        |        |
| 10                                  |                 | 29.68      | 0.017      |        |        |
| 0                                   |                 | 32.37      | 0.019      |        |        |
| -10                                 |                 | 22.52      | 0.013      |        |        |
| -20                                 |                 | 24.10      | 0.014      |        |        |
| -30                                 |                 | 19.43      | 0.011      |        |        |
| 20                                  | Maximum Voltage | 34.58      | 0.020      |        |        |
| 20                                  | BEP             | 28.12      | 0.016      |        |        |

| LTE Band 4 (QPSK) / 1733MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 13.77      | 0.008      | 2.5ppm | PASS   |
| 40                                  |                 | 26.59      | 0.015      |        |        |
| 30                                  |                 | 23.30      | 0.013      |        |        |
| 20                                  |                 | 15.53      | 0.009      |        |        |
| 10                                  |                 | 16.78      | 0.010      |        |        |
| 0                                   |                 | 20.27      | 0.012      |        |        |
| -10                                 |                 | 29.36      | 0.017      |        |        |
| -20                                 |                 | 13.21      | 0.008      |        |        |
| -30                                 |                 | 15.38      | 0.009      |        |        |
| 20                                  | Maximum Voltage | 21.48      | 0.012      |        |        |
| 20                                  | BEP             | 21.23      | 0.012      |        |        |



| LTE Band 5 (QPSK) / 836.5MHz / BW5M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 35.43      | 0.050      | 2.5ppm | PASS   |
| 40                                  |                 | 30.06      | 0.042      |        |        |
| 30                                  |                 | 30.10      | 0.042      |        |        |
| 20                                  |                 | 20.21      | 0.028      |        |        |
| 10                                  |                 | 22.64      | 0.032      |        |        |
| 0                                   |                 | 32.86      | 0.046      |        |        |
| -10                                 |                 | 29.70      | 0.004      |        |        |
| -20                                 |                 | 18.83      | 0.027      |        |        |
| -30                                 |                 | 36.06      | 0.051      |        |        |
| 20                                  | Maximum Voltage | 20.47      | 0.029      |        |        |
| 20                                  | BEP             | 15.25      | 0.021      |        |        |

| LTE Band 5 (QPSK) / 836.5MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 14.12      | 0.020      | 2.5ppm | PASS   |
| 40                                   |                 | 31.79      | 0.045      |        |        |
| 30                                   |                 | 29.36      | 0.041      |        |        |
| 20                                   |                 | 23.01      | 0.032      |        |        |
| 10                                   |                 | 13.60      | 0.019      |        |        |
| 0                                    |                 | 12.58      | 0.018      |        |        |
| -10                                  |                 | 36.33      | 0.005      |        |        |
| -20                                  |                 | 12.26      | 0.017      |        |        |
| -30                                  |                 | 16.00      | 0.023      |        |        |
| 20                                   | Maximum Voltage | 30.26      | 0.043      |        |        |
| 20                                   | BEP             | 17.66      | 0.025      |        |        |

| LTE Band 7 (QPSK) / 2535MHz / BW10M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 20.50      | 0.008      | 2.5ppm | PASS   |
| 40                                  |                 | 19.39      | 0.008      |        |        |
| 30                                  |                 | 30.53      | 0.012      |        |        |
| 20                                  |                 | 29.52      | 0.012      |        |        |
| 10                                  |                 | 12.99      | 0.005      |        |        |
| 0                                   |                 | 36.19      | 0.014      |        |        |
| -10                                 |                 | 33.58      | 0.013      |        |        |
| -20                                 |                 | 30.28      | 0.012      |        |        |
| -30                                 |                 | 13.55      | 0.005      |        |        |
| 20                                  | Maximum Voltage | 20.92      | 0.008      |        |        |
| 20                                  | BEP             | 28.76      | 0.011      |        |        |



| LTE Band 7 (QPSK) / 2535MHz / BW20M |                 |            |            |        |        |
|-------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                    | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                     | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                  | Normal Voltage  | 14.44      | 0.006      | 2.5ppm | PASS   |
| 40                                  |                 | 15.48      | 0.006      |        |        |
| 30                                  |                 | 27.01      | 0.011      |        |        |
| 20                                  |                 | 33.09      | 0.013      |        |        |
| 10                                  |                 | 35.67      | 0.014      |        |        |
| 0                                   |                 | 30.62      | 0.012      |        |        |
| -10                                 |                 | 13.10      | 0.005      |        |        |
| -20                                 |                 | 29.97      | 0.012      |        |        |
| -30                                 |                 | 21.87      | 0.009      |        |        |
| 20                                  | Maximum Voltage | 24.79      | 0.010      |        |        |
| 20                                  | BEP             | 13.01      | 0.005      |        |        |

| LTE Band 66 (QPSK) / 1745MHz / BW10M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 16.12      | 0.009      | 2.5ppm | PASS   |
| 40                                   |                 | 33.23      | 0.019      |        |        |
| 30                                   |                 | 36.39      | 0.021      |        |        |
| 20                                   |                 | 28.57      | 0.016      |        |        |
| 10                                   |                 | 24.45      | 0.014      |        |        |
| 0                                    |                 | 33.38      | 0.019      |        |        |
| -10                                  |                 | 14.99      | 0.009      |        |        |
| -20                                  |                 | 19.53      | 0.011      |        |        |
| -30                                  |                 | 21.05      | 0.012      |        |        |
| 20                                   | Maximum Voltage | 13.52      | 0.008      |        |        |
| 20                                   | BEP             | 33.79      | 0.020      |        |        |

| LTE Band 66 (QPSK) / 1745MHz / BW20M |                 |            |            |        |        |
|--------------------------------------|-----------------|------------|------------|--------|--------|
| Temperature (°C)                     | Voltage         | Freq. Dev. | Freq. Dev. | Limit  | Result |
|                                      | (Volt)          | (Hz)       | (ppm)      |        |        |
| 50                                   | Normal Voltage  | 33.48      | 0.019      | 2.5ppm | PASS   |
| 40                                   |                 | 22.49      | 0.013      |        |        |
| 30                                   |                 | 25.95      | 0.015      |        |        |
| 20                                   |                 | 25.27      | 0.015      |        |        |
| 10                                   |                 | 13.74      | 0.008      |        |        |
| 0                                    |                 | 15.40      | 0.009      |        |        |
| -10                                  |                 | 28.39      | 0.016      |        |        |
| -20                                  |                 | 23.60      | 0.014      |        |        |
| -30                                  |                 | 20.03      | 0.012      |        |        |
| 20                                   | Maximum Voltage | 19.94      | 0.012      |        |        |
| 20                                   | BEP             | 18.27      | 0.011      |        |        |

## 5.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

### TEST OVERVIEW

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0. and ANSI C63.26-2015-Section 5.7.
2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

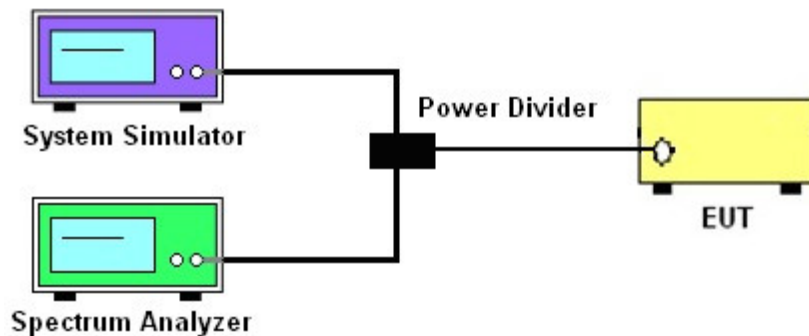
7. The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment “STS2312336W02\_Appendix GSM” and “STS2312336W02\_Appendix LTE”.



## 5.6 BAND EDGE

### TEST OVERVIEW

#### 1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

#### 3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

#### 4. §27.53(m)(4)

For operations in the 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

#### 5. §27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

### TEST PROCEDURE

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26-2015-Section 5.7
  2. Start and stop frequency were set such that the band edge would be placed in the center of the Plot.
  3. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
  4. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.
- The path loss was compensated to the results for each measurement.
5. The band edges of low and high channels for the highest RF powers were measured.
  6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

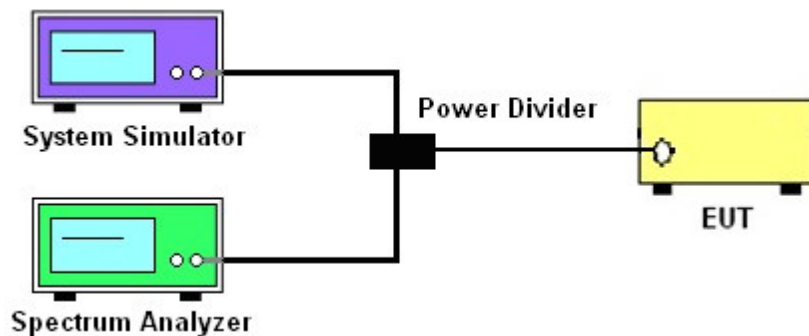
Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

### TEST SETUP



### TEST RESULT

Note: The test data please reference to attachment “STS2312336W02\_Appendix GSM” and “STS2312336W02\_Appendix LTE”.



## 5.7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### TEST OVERVIEW

Radiated spurious emissions measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power and at the appropriate frequencies.

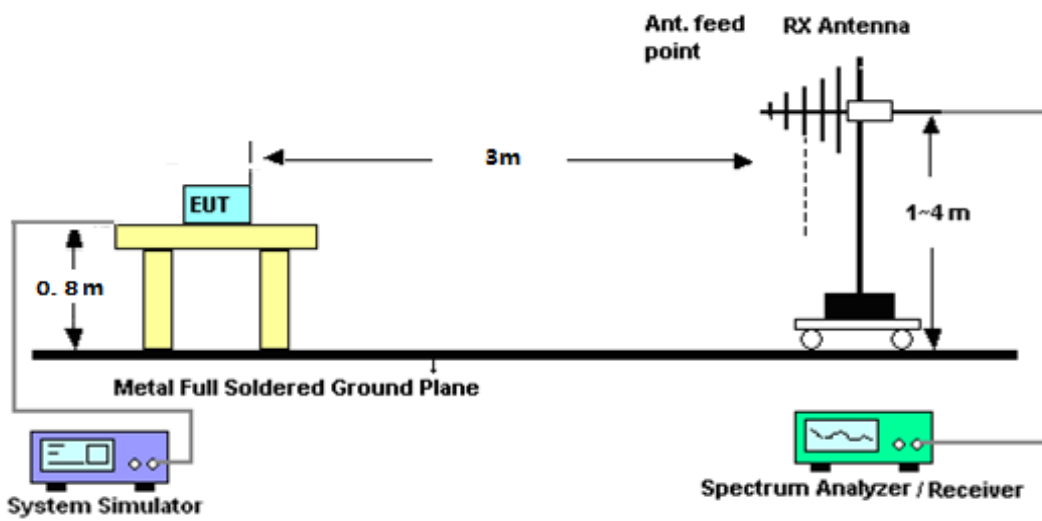
It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

### TEST PROCEDURE

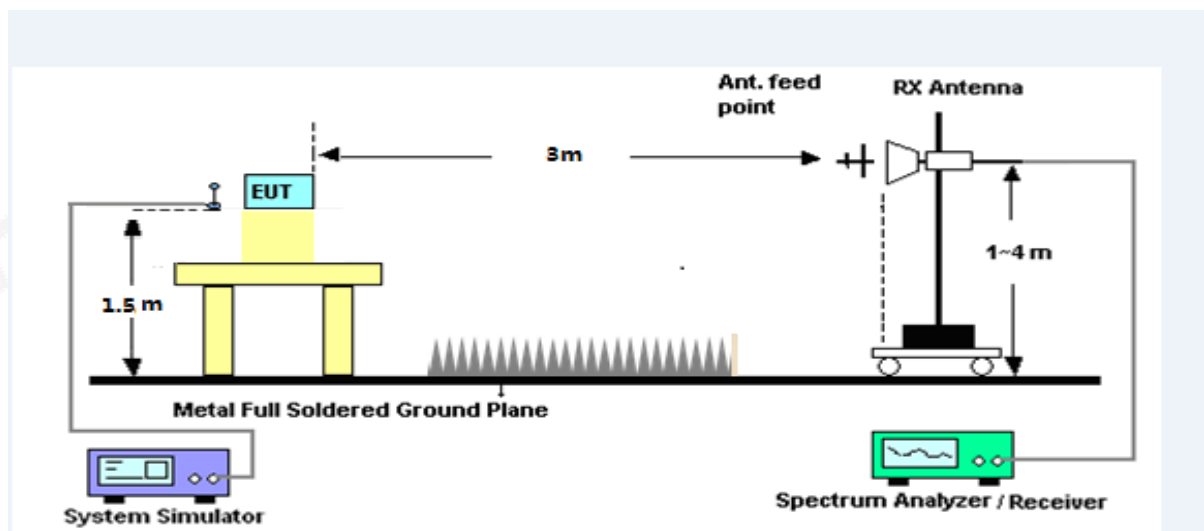
1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26-2015-Section 5.5.
2. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $> 2 \times$  span/RBW
6. Detector = Peak
7. Trace mode = max hold
8. The trace was allowed to stabilize
9. Effective Isotropic Spurious Radiation was measured by substitution method according to TIA/EIA-603-D. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna.  
PMea=S.G Level+ Ant-Cable loss; Margin=PMea-Limit.

## TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



**TEST RESULT**

**Note:** (1) Spurious emissions which are attenuated by more than 20dB below the permissible value for frequency below 1000MHz.

(2) Above 3.5GHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value

(3) Test is divided into three directions, X/Y/Z. X pattern for the worst.

| GPRS 850: (30-9000)MHz                       |                     |          |       |               |                |                 |          |
|----------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results Channel 128/824.2 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1648.42                                      | -40.98              | 9.40     | 4.75  | -36.33        | -13.00         | -23.33          | H        |
| 2472.31                                      | -40.01              | 10.60    | 8.39  | -37.80        | -13.00         | -24.80          | H        |
| 3296.63                                      | -30.96              | 12.00    | 11.79 | -30.75        | -13.00         | -17.75          | H        |
| 1648.42                                      | -44.44              | 9.40     | 4.75  | -39.79        | -13.00         | -26.79          | V        |
| 2472.31                                      | -44.78              | 10.60    | 8.39  | -42.57        | -13.00         | -29.57          | V        |
| 3296.63                                      | -43.79              | 12.00    | 11.79 | -43.58        | -13.00         | -30.58          | V        |
| The Worst Test Results Channel 190/836.6 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1673.11                                      | -40.46              | 9.50     | 4.76  | -35.72        | -13.00         | -22.72          | H        |
| 2509.78                                      | -39.59              | 10.70    | 8.40  | -37.29        | -13.00         | -24.29          | H        |
| 3346.34                                      | -32.23              | 12.20    | 11.80 | -31.83        | -13.00         | -18.83          | H        |
| 1673.11                                      | -43.31              | 9.40     | 4.75  | -38.66        | -13.00         | -25.66          | V        |
| 2509.78                                      | -44.13              | 10.60    | 8.39  | -41.92        | -13.00         | -28.92          | V        |
| 3346.34                                      | -43.09              | 12.20    | 11.82 | -42.71        | -13.00         | -29.71          | V        |
| The Worst Test Results Channel 251/848.8 MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                               | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 1697.62                                      | -40.81              | 9.60     | 4.77  | -35.98        | -13.00         | -22.98          | H        |
| 2546.49                                      | -39.42              | 10.80    | 8.50  | -37.12        | -13.00         | -24.12          | H        |
| 3395.25                                      | -31.99              | 12.50    | 11.90 | -31.39        | -13.00         | -18.39          | H        |
| 1697.62                                      | -43.15              | 9.60     | 4.77  | -38.32        | -13.00         | -25.32          | V        |
| 2546.49                                      | -44.19              | 10.80    | 8.50  | -41.89        | -13.00         | -28.89          | V        |
| 3395.25                                      | -43.30              | 12.50    | 11.90 | -42.70        | -13.00         | -29.70          | V        |

| GPRS1900: (30-20000)MHz                          |                     |          |       |               |                |                 |          |
|--------------------------------------------------|---------------------|----------|-------|---------------|----------------|-----------------|----------|
| The Worst Test Results for Channel 512/1850.2MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3700.24                                          | -34.30              | 12.60    | 12.93 | -34.63        | -13.00         | -21.63          | H        |
| 5550.43                                          | -34.96              | 13.10    | 17.11 | -38.97        | -13.00         | -25.97          | H        |
| 7400.93                                          | -33.61              | 11.50    | 22.20 | -44.31        | -13.00         | -31.31          | H        |
| 3700.24                                          | -35.36              | 12.60    | 12.93 | -35.69        | -13.00         | -22.69          | V        |
| 5550.43                                          | -34.65              | 13.10    | 17.11 | -38.66        | -13.00         | -25.66          | V        |
| 7400.93                                          | -31.75              | 11.50    | 22.20 | -42.45        | -13.00         | -29.45          | V        |
| The Worst Test Results for Channel 661/1880.0MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.91                                          | -33.51              | 12.60    | 12.93 | -33.84        | -13.00         | -20.84          | H        |
| 5639.84                                          | -34.37              | 13.10    | 17.11 | -38.38        | -13.00         | -25.38          | H        |
| 7520.14                                          | -32.91              | 11.50    | 22.20 | -43.61        | -13.00         | -30.61          | H        |
| 3759.91                                          | -35.15              | 12.60    | 12.93 | -35.48        | -13.00         | -22.48          | V        |
| 5639.84                                          | -34.25              | 13.10    | 17.11 | -38.26        | -13.00         | -25.26          | V        |
| 7520.14                                          | -32.69              | 11.50    | 22.20 | -43.39        | -13.00         | -30.39          | V        |
| The Worst Test Results for Channel 810/1909.8MHz |                     |          |       |               |                |                 |          |
| Frequency(MHz)                                   | S<br>G.Lev<br>(dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3819.60                                          | -33.94              | 12.60    | 12.93 | -34.27        | -13.00         | -21.27          | H        |
| 5729.13                                          | -34.62              | 13.10    | 17.11 | -38.63        | -13.00         | -25.63          | H        |
| 7638.87                                          | -32.81              | 11.50    | 22.20 | -43.51        | -13.00         | -30.51          | H        |
| 3819.60                                          | -34.97              | 12.60    | 12.93 | -35.30        | -13.00         | -22.30          | V        |
| 5729.13                                          | -34.56              | 13.10    | 17.11 | -38.57        | -13.00         | -25.57          | V        |
| 7638.87                                          | -32.51              | 11.50    | 22.20 | -43.21        | -13.00         | -30.21          | V        |



| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3701.40                                                                             | -34.08        | 12.60    | 12.93 | -34.41        | -13.00         | -21.41          | H        |
| 5551.91                                                                             | -35.36        | 13.10    | 17.11 | -39.37        | -13.00         | -26.37          | H        |
| 7402.82                                                                             | -32.68        | 11.50    | 22.20 | -43.38        | -13.00         | -30.38          | H        |
| 3701.40                                                                             | -35.88        | 12.60    | 12.93 | -36.21        | -13.00         | -23.21          | V        |
| 5551.91                                                                             | -34.10        | 13.10    | 17.11 | -38.11        | -13.00         | -25.11          | V        |
| 7402.82                                                                             | -32.53        | 11.50    | 22.20 | -43.23        | -13.00         | -30.23          | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3759.88                                                                             | -34.07        | 12.60    | 12.93 | -34.40        | -13.00         | -21.40          | H        |
| 5639.87                                                                             | -34.77        | 13.10    | 17.11 | -38.78        | -13.00         | -25.78          | H        |
| 7520.20                                                                             | -32.40        | 11.50    | 22.20 | -43.10        | -13.00         | -30.10          | H        |
| 3759.88                                                                             | -34.59        | 12.60    | 12.93 | -34.92        | -13.00         | -21.92          | V        |
| 5639.87                                                                             | -35.06        | 13.10    | 17.11 | -39.07        | -13.00         | -26.07          | V        |
| 7520.20                                                                             | -32.57        | 11.50    | 22.20 | -43.27        | -13.00         | -30.27          | V        |
| LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3818.39                                                                             | -33.65        | 12.60    | 12.93 | -33.98        | -13.00         | -20.98          | H        |
| 5727.69                                                                             | -34.22        | 13.10    | 17.11 | -38.23        | -13.00         | -25.23          | H        |
| 7636.82                                                                             | -32.32        | 11.50    | 22.20 | -43.02        | -13.00         | -30.02          | H        |
| 3818.39                                                                             | -35.50        | 12.60    | 12.93 | -35.83        | -13.00         | -22.83          | V        |
| 5727.69                                                                             | -34.91        | 13.10    | 17.11 | -38.92        | -13.00         | -25.92          | V        |
| 7636.82                                                                             | -32.25        | 11.50    | 22.20 | -42.95        | -13.00         | -29.95          | V        |

| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3703.06                                                                           | -34.16        | 12.60    | 12.93 | -34.49     | -13.00      | -21.49       | H        |
| 5554.46                                                                           | -34.63        | 13.10    | 17.11 | -38.64     | -13.00      | -25.64       | H        |
| 7405.97                                                                           | -33.64        | 11.50    | 22.20 | -44.34     | -13.00      | -31.34       | H        |
| 3703.06                                                                           | -35.59        | 12.60    | 12.93 | -35.92     | -13.00      | -22.92       | V        |
| 5554.46                                                                           | -34.58        | 13.10    | 17.11 | -38.59     | -13.00      | -25.59       | V        |
| 7405.97                                                                           | -32.92        | 11.50    | 22.20 | -43.62     | -13.00      | -30.62       | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3760.02                                                                           | -33.77        | 12.60    | 12.93 | -34.10     | -13.00      | -21.10       | H        |
| 5639.97                                                                           | -34.29        | 13.10    | 17.11 | -38.30     | -13.00      | -25.30       | H        |
| 7519.96                                                                           | -32.51        | 11.50    | 22.20 | -43.21     | -13.00      | -30.21       | H        |
| 3760.02                                                                           | -35.85        | 12.60    | 12.93 | -36.18     | -13.00      | -23.18       | V        |
| 5639.97                                                                           | -34.22        | 13.10    | 17.11 | -38.23     | -13.00      | -25.23       | V        |
| 7519.96                                                                           | -32.03        | 11.50    | 22.20 | -42.73     | -13.00      | -29.73       | V        |
| LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3817.10                                                                           | -33.60        | 12.60    | 12.93 | -33.93     | -13.00      | -20.93       | H        |
| 5725.25                                                                           | -35.25        | 13.10    | 17.11 | -39.26     | -13.00      | -26.26       | H        |
| 7634.32                                                                           | -33.20        | 11.50    | 22.20 | -43.90     | -13.00      | -30.90       | H        |
| 3817.10                                                                           | -34.94        | 12.60    | 12.93 | -35.27     | -13.00      | -22.27       | V        |
| 5725.25                                                                           | -34.17        | 13.10    | 17.11 | -38.18     | -13.00      | -25.18       | V        |
| 7634.32                                                                           | -32.67        | 11.50    | 22.20 | -43.37     | -13.00      | -30.37       | V        |

| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3705.09                                                                           | -34.93        | 12.60    | 12.93 | -35.26     | -13.00      | -22.26       | H        |
| 5557.20                                                                           | -35.34        | 13.10    | 17.11 | -39.35     | -13.00      | -26.35       | H        |
| 7409.80                                                                           | -32.22        | 11.50    | 22.20 | -42.92     | -13.00      | -29.92       | H        |
| 3705.09                                                                           | -35.52        | 12.60    | 12.93 | -35.85     | -13.00      | -22.85       | V        |
| 5557.20                                                                           | -34.05        | 13.10    | 17.11 | -38.06     | -13.00      | -25.06       | V        |
| 7409.80                                                                           | -32.31        | 11.50    | 22.20 | -43.01     | -13.00      | -30.01       | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3760.22                                                                           | -34.82        | 12.60    | 12.93 | -35.15     | -13.00      | -22.15       | H        |
| 5640.28                                                                           | -34.26        | 13.10    | 17.11 | -38.27     | -13.00      | -25.27       | H        |
| 7520.24                                                                           | -33.03        | 11.50    | 22.20 | -43.73     | -13.00      | -30.73       | H        |
| 3760.22                                                                           | -35.43        | 12.60    | 12.93 | -35.76     | -13.00      | -22.76       | V        |
| 5640.28                                                                           | -33.95        | 13.10    | 17.11 | -37.96     | -13.00      | -24.96       | V        |
| 7520.24                                                                           | -32.17        | 11.50    | 22.20 | -42.87     | -13.00      | -29.87       | V        |
| LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3814.95                                                                           | -34.39        | 12.60    | 12.93 | -34.72     | -13.00      | -21.72       | H        |
| 5722.12                                                                           | -34.28        | 13.10    | 17.11 | -38.29     | -13.00      | -25.29       | H        |
| 7630.06                                                                           | -33.06        | 11.50    | 22.20 | -43.76     | -13.00      | -30.76       | H        |
| 3814.95                                                                           | -35.85        | 12.60    | 12.93 | -36.18     | -13.00      | -23.18       | V        |
| 5722.12                                                                           | -34.90        | 13.10    | 17.11 | -38.91     | -13.00      | -25.91       | V        |
| 7630.06                                                                           | -33.08        | 11.50    | 22.20 | -43.78     | -13.00      | -30.78       | V        |

| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3710.03                                                                            | -33.73        | 12.60    | 12.93 | -34.06     | -13.00      | -21.06       | H        |
| 5565.26                                                                            | -35.24        | 13.10    | 17.11 | -39.25     | -13.00      | -26.25       | H        |
| 7420.11                                                                            | -32.85        | 11.50    | 22.20 | -43.55     | -13.00      | -30.55       | H        |
| 3710.03                                                                            | -34.91        | 12.60    | 12.93 | -35.24     | -13.00      | -22.24       | V        |
| 5565.26                                                                            | -34.02        | 13.10    | 17.11 | -38.03     | -13.00      | -25.03       | V        |
| 7420.11                                                                            | -33.05        | 11.50    | 22.20 | -43.75     | -13.00      | -30.75       | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3759.91                                                                            | -34.12        | 12.60    | 12.93 | -34.45     | -13.00      | -21.45       | H        |
| 5639.92                                                                            | -34.47        | 13.10    | 17.11 | -38.48     | -13.00      | -25.48       | H        |
| 7520.20                                                                            | -32.32        | 11.50    | 22.20 | -43.02     | -13.00      | -30.02       | H        |
| 3759.91                                                                            | -35.46        | 12.60    | 12.93 | -35.79     | -13.00      | -22.79       | V        |
| 5639.92                                                                            | -35.21        | 13.10    | 17.11 | -39.22     | -13.00      | -26.22       | V        |
| 7520.20                                                                            | -33.21        | 11.50    | 22.20 | -43.91     | -13.00      | -30.91       | V        |
| LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3810.21                                                                            | -34.08        | 12.60    | 12.93 | -34.41     | -13.00      | -21.41       | H        |
| 5714.79                                                                            | -34.98        | 13.10    | 17.11 | -38.99     | -13.00      | -25.99       | H        |
| 7620.24                                                                            | -32.35        | 11.50    | 22.20 | -43.05     | -13.00      | -30.05       | H        |
| 3810.21                                                                            | -36.00        | 12.60    | 12.93 | -36.33     | -13.00      | -23.33       | V        |
| 5714.79                                                                            | -34.48        | 13.10    | 17.11 | -38.49     | -13.00      | -25.49       | V        |
| 7620.24                                                                            | -31.83        | 11.50    | 22.20 | -42.53     | -13.00      | -29.53       | V        |

| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3714.83                                                                            | -34.16        | 12.60    | 12.93 | -34.49     | -13.00      | -21.49       | H        |
| 5572.35                                                                            | -34.69        | 13.10    | 17.11 | -38.70     | -13.00      | -25.70       | H        |
| 7430.66                                                                            | -32.93        | 11.50    | 22.20 | -43.63     | -13.00      | -30.63       | H        |
| 3714.83                                                                            | -34.72        | 12.60    | 12.93 | -35.05     | -13.00      | -22.05       | V        |
| 5572.35                                                                            | -35.12        | 13.10    | 17.11 | -39.13     | -13.00      | -26.13       | V        |
| 7430.66                                                                            | -32.69        | 11.50    | 22.20 | -43.39     | -13.00      | -30.39       | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3759.83                                                                            | -33.59        | 12.60    | 12.93 | -33.92     | -13.00      | -20.92       | H        |
| 5639.84                                                                            | -35.17        | 13.10    | 17.11 | -39.18     | -13.00      | -26.18       | H        |
| 7520.20                                                                            | -33.52        | 11.50    | 22.20 | -44.22     | -13.00      | -31.22       | H        |
| 3759.83                                                                            | -35.12        | 12.60    | 12.93 | -35.45     | -13.00      | -22.45       | V        |
| 5639.84                                                                            | -34.61        | 13.10    | 17.11 | -38.62     | -13.00      | -25.62       | V        |
| 7520.20                                                                            | -32.81        | 11.50    | 22.20 | -43.51     | -13.00      | -30.51       | V        |
| LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3805.24                                                                            | -34.68        | 12.60    | 12.93 | -35.01     | -13.00      | -22.01       | H        |
| 5707.44                                                                            | -34.89        | 13.10    | 17.11 | -38.90     | -13.00      | -25.90       | H        |
| 7610.16                                                                            | -32.79        | 11.50    | 22.20 | -43.49     | -13.00      | -30.49       | H        |
| 3805.24                                                                            | -35.10        | 12.60    | 12.93 | -35.43     | -13.00      | -22.43       | V        |
| 5707.44                                                                            | -34.79        | 13.10    | 17.11 | -38.80     | -13.00      | -25.80       | V        |
| 7610.16                                                                            | -31.84        | 11.50    | 22.20 | -42.54     | -13.00      | -29.54       | V        |

| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3720.09                                                                            | -33.94        | 12.60    | 12.93 | -34.27     | -13.00      | -21.27       | H        |
| 5580.23                                                                            | -34.54        | 13.10    | 17.11 | -38.55     | -13.00      | -25.55       | H        |
| 7439.73                                                                            | -33.61        | 11.50    | 22.20 | -44.31     | -13.00      | -31.31       | H        |
| 3720.09                                                                            | -34.63        | 12.60    | 12.93 | -34.96     | -13.00      | -21.96       | V        |
| 5580.23                                                                            | -34.89        | 13.10    | 17.11 | -38.90     | -13.00      | -25.90       | V        |
| 7439.73                                                                            | -32.12        | 11.50    | 22.20 | -42.82     | -13.00      | -29.82       | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3760.22                                                                            | -34.42        | 12.60    | 12.93 | -34.75     | -13.00      | -21.75       | H        |
| 5640.24                                                                            | -35.28        | 13.10    | 17.11 | -39.29     | -13.00      | -26.29       | H        |
| 7519.83                                                                            | -32.59        | 11.50    | 22.20 | -43.29     | -13.00      | -30.29       | H        |
| 3760.22                                                                            | -34.88        | 12.60    | 12.93 | -35.21     | -13.00      | -22.21       | V        |
| 5640.24                                                                            | -34.77        | 13.10    | 17.11 | -38.78     | -13.00      | -25.78       | V        |
| 7519.83                                                                            | -32.30        | 11.50    | 22.20 | -43.00     | -13.00      | -30.00       | V        |
| LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3799.96                                                                            | -34.24        | 12.60    | 12.93 | -34.57     | -13.00      | -21.57       | H        |
| 5699.95                                                                            | -35.28        | 13.10    | 17.11 | -39.29     | -13.00      | -26.29       | H        |
| 7599.81                                                                            | -32.51        | 11.50    | 22.20 | -43.21     | -13.00      | -30.21       | H        |
| 3799.96                                                                            | -35.78        | 12.60    | 12.93 | -36.11     | -13.00      | -23.11       | V        |
| 5699.95                                                                            | -34.58        | 13.10    | 17.11 | -38.59     | -13.00      | -25.59       | V        |
| 7599.81                                                                            | -33.07        | 11.50    | 22.20 | -43.77     | -13.00      | -30.77       | V        |

| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3420.88                                                                             | -34.51        | 12.90    | 12.56 | -34.17     | -13.00      | -21.17       | H        |
| 5131.83                                                                             | -34.44        | 13.10    | 16.32 | -37.66     | -13.00      | -24.66       | H        |
| 6842.71                                                                             | -32.94        | 12.33    | 21.13 | -41.74     | -13.00      | -28.74       | H        |
| 3420.88                                                                             | -35.61        | 12.90    | 12.56 | -35.27     | -13.00      | -22.27       | V        |
| 5131.83                                                                             | -34.68        | 13.10    | 16.32 | -37.90     | -13.00      | -24.90       | V        |
| 6842.71                                                                             | -33.05        | 12.33    | 21.13 | -41.85     | -13.00      | -28.85       | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.90                                                                             | -34.67        | 12.90    | 12.56 | -34.33     | -13.00      | -21.33       | H        |
| 5196.62                                                                             | -34.77        | 13.10    | 16.32 | -37.99     | -13.00      | -24.99       | H        |
| 6930.25                                                                             | -32.27        | 12.33    | 21.13 | -41.07     | -13.00      | -28.07       | H        |
| 3464.90                                                                             | -35.90        | 12.90    | 12.56 | -35.56     | -13.00      | -22.56       | V        |
| 5196.62                                                                             | -34.21        | 13.10    | 16.32 | -37.43     | -13.00      | -24.43       | V        |
| 6930.25                                                                             | -31.89        | 12.33    | 21.13 | -40.69     | -13.00      | -27.69       | V        |
| LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3508.34                                                                             | -34.93        | 12.90    | 12.56 | -34.59     | -13.00      | -21.59       | H        |
| 5262.19                                                                             | -35.33        | 13.10    | 16.32 | -38.55     | -13.00      | -25.55       | H        |
| 7015.58                                                                             | -32.84        | 12.33    | 21.13 | -41.64     | -13.00      | -28.64       | H        |
| 3508.34                                                                             | -35.81        | 12.90    | 12.56 | -35.47     | -13.00      | -22.47       | V        |
| 5262.19                                                                             | -33.97        | 13.10    | 16.32 | -37.19     | -13.00      | -24.19       | V        |
| 7015.58                                                                             | -32.86        | 12.33    | 21.13 | -41.66     | -13.00      | -28.66       | V        |

| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |               |                |                 |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|---------------|----------------|-----------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3423.64                                                                           | -34.64        | 12.90    | 12.56 | -34.30        | -13.00         | -21.30          | H        |
| 5136.22                                                                           | -35.19        | 13.10    | 16.32 | -38.41        | -13.00         | -25.41          | H        |
| 6848.45                                                                           | -32.89        | 12.33    | 21.13 | -41.69        | -13.00         | -28.69          | H        |
| 3423.64                                                                           | -35.69        | 12.90    | 12.56 | -35.35        | -13.00         | -22.35          | V        |
| 5136.22                                                                           | -34.22        | 13.10    | 16.32 | -37.44        | -13.00         | -24.44          | V        |
| 6848.45                                                                           | -33.12        | 12.33    | 21.13 | -41.92        | -13.00         | -28.92          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3464.62                                                                           | -34.30        | 12.90    | 12.56 | -33.96        | -13.00         | -20.96          | H        |
| 5196.65                                                                           | -34.63        | 13.10    | 16.32 | -37.85        | -13.00         | -24.85          | H        |
| 6930.20                                                                           | -33.49        | 12.33    | 21.13 | -42.29        | -13.00         | -29.29          | H        |
| 3464.62                                                                           | -35.22        | 12.90    | 12.56 | -34.88        | -13.00         | -21.88          | V        |
| 5196.65                                                                           | -34.65        | 13.10    | 16.32 | -37.87        | -13.00         | -24.87          | V        |
| 6930.20                                                                           | -32.95        | 12.33    | 21.13 | -41.75        | -13.00         | -28.75          | V        |
| LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |               |                |                 |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea<br>(dBm) | Limit<br>(dBm) | Margin<br>(dBm) | Polarity |
| 3506.10                                                                           | -34.19        | 12.90    | 12.56 | -33.85        | -13.00         | -20.85          | H        |
| 5261.80                                                                           | -34.45        | 13.10    | 16.32 | -37.67        | -13.00         | -24.67          | H        |
| 7012.72                                                                           | -32.71        | 12.33    | 21.13 | -41.51        | -13.00         | -28.51          | H        |
| 3506.10                                                                           | -35.61        | 12.90    | 12.56 | -35.27        | -13.00         | -22.27          | V        |
| 5261.80                                                                           | -34.99        | 13.10    | 16.32 | -38.21        | -13.00         | -25.21          | V        |
| 7012.72                                                                           | -32.28        | 12.33    | 21.13 | -41.08        | -13.00         | -28.08          | V        |

| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3424.89                                                                           | -33.80        | 12.90    | 12.56 | -33.46     | -13.00      | -20.46       | H        |
| 5137.08                                                                           | -34.45        | 13.10    | 16.32 | -37.67     | -13.00      | -24.67       | H        |
| 6849.88                                                                           | -33.06        | 12.33    | 21.13 | -41.86     | -13.00      | -28.86       | H        |
| 3424.89                                                                           | -35.39        | 12.90    | 12.56 | -35.05     | -13.00      | -22.05       | V        |
| 5137.08                                                                           | -34.22        | 13.10    | 16.32 | -37.44     | -13.00      | -24.44       | V        |
| 6849.88                                                                           | -32.62        | 12.33    | 21.13 | -41.42     | -13.00      | -28.42       | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.67                                                                           | -33.45        | 12.90    | 12.56 | -33.11     | -13.00      | -20.11       | H        |
| 5196.96                                                                           | -35.19        | 13.10    | 16.32 | -38.41     | -13.00      | -25.41       | H        |
| 6929.77                                                                           | -33.22        | 12.33    | 21.13 | -42.02     | -13.00      | -29.02       | H        |
| 3464.67                                                                           | -35.49        | 12.90    | 12.56 | -35.15     | -13.00      | -22.15       | V        |
| 5196.96                                                                           | -33.77        | 13.10    | 16.32 | -36.99     | -13.00      | -23.99       | V        |
| 6929.77                                                                           | -32.09        | 12.33    | 21.13 | -40.89     | -13.00      | -27.89       | V        |
| LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3505.17                                                                           | -33.93        | 12.90    | 12.56 | -33.59     | -13.00      | -20.59       | H        |
| 5256.79                                                                           | -35.42        | 13.10    | 16.32 | -38.64     | -13.00      | -25.64       | H        |
| 7010.17                                                                           | -32.66        | 12.33    | 21.13 | -41.46     | -13.00      | -28.46       | H        |
| 3505.17                                                                           | -36.02        | 12.90    | 12.56 | -35.68     | -13.00      | -22.68       | V        |
| 5256.79                                                                           | -34.01        | 13.10    | 16.32 | -37.23     | -13.00      | -24.23       | V        |
| 7010.17                                                                           | -32.18        | 12.33    | 21.13 | -40.98     | -13.00      | -27.98       | V        |

| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3430.03                                                                            | -34.10        | 12.90    | 12.56 | -33.76     | -13.00      | -20.76       | H        |
| 5145.11                                                                            | -34.34        | 13.10    | 16.32 | -37.56     | -13.00      | -24.56       | H        |
| 6860.22                                                                            | -33.58        | 12.33    | 21.13 | -42.38     | -13.00      | -29.38       | H        |
| 3430.03                                                                            | -34.90        | 12.90    | 12.56 | -34.56     | -13.00      | -21.56       | V        |
| 5145.11                                                                            | -35.07        | 13.10    | 16.32 | -38.29     | -13.00      | -25.29       | V        |
| 6860.22                                                                            | -32.19        | 12.33    | 21.13 | -40.99     | -13.00      | -27.99       | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.37                                                                            | -34.21        | 12.90    | 12.56 | -33.87     | -13.00      | -20.87       | H        |
| 5196.57                                                                            | -34.74        | 13.10    | 16.32 | -37.96     | -13.00      | -24.96       | H        |
| 6929.47                                                                            | -32.35        | 12.33    | 21.13 | -41.15     | -13.00      | -28.15       | H        |
| 3464.37                                                                            | -35.39        | 12.90    | 12.56 | -35.05     | -13.00      | -22.05       | V        |
| 5196.57                                                                            | -34.94        | 13.10    | 16.32 | -38.16     | -13.00      | -25.16       | V        |
| 6929.47                                                                            | -31.83        | 12.33    | 21.13 | -40.63     | -13.00      | -27.63       | V        |
| LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3500.48                                                                            | -34.55        | 12.90    | 12.56 | -34.21     | -13.00      | -21.21       | H        |
| 5250.25                                                                            | -35.15        | 13.10    | 16.32 | -38.37     | -13.00      | -25.37       | H        |
| 6999.94                                                                            | -33.13        | 12.33    | 21.13 | -41.93     | -13.00      | -28.93       | H        |
| 3500.48                                                                            | -35.82        | 12.90    | 12.56 | -35.48     | -13.00      | -22.48       | V        |
| 5250.25                                                                            | -34.02        | 13.10    | 16.32 | -37.24     | -13.00      | -24.24       | V        |
| 6999.94                                                                            | -32.06        | 12.33    | 21.13 | -40.86     | -13.00      | -27.86       | V        |

| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3434.77                                                                            | -34.48        | 12.90    | 12.56 | -34.14     | -13.00      | -21.14       | H        |
| 5152.57                                                                            | -34.42        | 13.10    | 16.32 | -37.64     | -13.00      | -24.64       | H        |
| 6870.63                                                                            | -32.84        | 12.33    | 21.13 | -41.64     | -13.00      | -28.64       | H        |
| 3434.77                                                                            | -34.60        | 12.90    | 12.56 | -34.26     | -13.00      | -21.26       | V        |
| 5152.57                                                                            | -35.08        | 13.10    | 16.32 | -38.30     | -13.00      | -25.30       | V        |
| 6870.63                                                                            | -32.06        | 12.33    | 21.13 | -40.86     | -13.00      | -27.86       | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3465.00                                                                            | -34.51        | 12.90    | 12.56 | -34.17     | -13.00      | -21.17       | H        |
| 5196.50                                                                            | -34.73        | 13.10    | 16.32 | -37.95     | -13.00      | -24.95       | H        |
| 6929.78                                                                            | -33.45        | 12.33    | 21.13 | -42.25     | -13.00      | -29.25       | H        |
| 3465.00                                                                            | -35.21        | 12.90    | 12.56 | -34.87     | -13.00      | -21.87       | V        |
| 5196.50                                                                            | -34.86        | 13.10    | 16.32 | -38.08     | -13.00      | -25.08       | V        |
| 6929.78                                                                            | -32.94        | 12.33    | 21.13 | -41.74     | -13.00      | -28.74       | V        |
| LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3495.17                                                                            | -33.67        | 12.90    | 12.56 | -33.33     | -13.00      | -20.33       | H        |
| 5241.99                                                                            | -34.53        | 13.10    | 16.32 | -37.75     | -13.00      | -24.75       | H        |
| 6990.18                                                                            | -33.02        | 12.33    | 21.13 | -41.82     | -13.00      | -28.82       | H        |
| 3495.17                                                                            | -35.72        | 12.90    | 12.56 | -35.38     | -13.00      | -22.38       | V        |
| 5241.99                                                                            | -34.62        | 13.10    | 16.32 | -37.84     | -13.00      | -24.84       | V        |
| 6990.18                                                                            | -32.73        | 12.33    | 21.13 | -41.53     | -13.00      | -28.53       | V        |

| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3440.21                                                                            | -33.91        | 12.90    | 12.56 | -33.57     | -13.00      | -20.57       | H        |
| 5160.01                                                                            | -34.92        | 13.10    | 16.32 | -38.14     | -13.00      | -25.14       | H        |
| 6880.86                                                                            | -33.46        | 12.33    | 21.13 | -42.26     | -13.00      | -29.26       | H        |
| 3440.21                                                                            | -35.15        | 12.90    | 12.56 | -34.81     | -13.00      | -21.81       | V        |
| 5160.01                                                                            | -35.16        | 13.10    | 16.32 | -38.38     | -13.00      | -25.38       | V        |
| 6880.86                                                                            | -32.45        | 12.33    | 21.13 | -41.25     | -13.00      | -28.25       | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3464.79                                                                            | -34.04        | 12.90    | 12.56 | -33.70     | -13.00      | -20.70       | H        |
| 5196.51                                                                            | -34.49        | 13.10    | 16.32 | -37.71     | -13.00      | -24.71       | H        |
| 6929.52                                                                            | -33.26        | 12.33    | 21.13 | -42.06     | -13.00      | -29.06       | H        |
| 3464.79                                                                            | -35.74        | 12.90    | 12.56 | -35.40     | -13.00      | -22.40       | V        |
| 5196.51                                                                            | -34.44        | 13.10    | 16.32 | -37.66     | -13.00      | -24.66       | V        |
| 6929.52                                                                            | -32.02        | 12.33    | 21.13 | -40.82     | -13.00      | -27.82       | V        |
| LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.23                                                                            | -34.24        | 12.90    | 12.56 | -33.90     | -13.00      | -20.90       | H        |
| 5235.33                                                                            | -35.33        | 13.10    | 16.32 | -38.55     | -13.00      | -25.55       | H        |
| 6979.56                                                                            | -32.50        | 12.33    | 21.13 | -41.30     | -13.00      | -28.30       | H        |
| 3490.23                                                                            | -35.02        | 12.90    | 12.56 | -34.68     | -13.00      | -21.68       | V        |
| 5235.33                                                                            | -35.03        | 13.10    | 16.32 | -38.25     | -13.00      | -25.25       | V        |
| 6979.56                                                                            | -32.42        | 12.33    | 21.13 | -41.22     | -13.00      | -28.22       | V        |

| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1648.78                                                                             | -33.79        | 9.56     | 9.72  | -33.95     | -13.00      | -20.95       | H        |
| 2473.74                                                                             | -35.20        | 10.50    | 10.86 | -35.56     | -13.00      | -22.56       | H        |
| 3298.51                                                                             | -33.44        | 12.78    | 11.57 | -32.23     | -13.00      | -19.23       | H        |
| 1648.78                                                                             | -34.89        | 9.56     | 9.72  | -35.05     | -13.00      | -22.05       | V        |
| 2473.74                                                                             | -35.00        | 10.50    | 10.86 | -35.36     | -13.00      | -22.36       | V        |
| 3298.51                                                                             | -32.27        | 12.78    | 11.57 | -31.06     | -13.00      | -18.06       | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1672.85                                                                             | -34.59        | 9.56     | 9.72  | -34.75     | -13.00      | -21.75       | H        |
| 2508.95                                                                             | -34.69        | 10.50    | 10.86 | -35.05     | -13.00      | -22.05       | H        |
| 3345.50                                                                             | -32.37        | 12.78    | 11.57 | -31.16     | -13.00      | -18.16       | H        |
| 1672.85                                                                             | -34.70        | 9.56     | 9.72  | -34.86     | -13.00      | -21.86       | V        |
| 2508.95                                                                             | -34.15        | 10.50    | 10.86 | -34.51     | -13.00      | -21.51       | V        |
| 3345.50                                                                             | -32.62        | 12.78    | 11.57 | -31.41     | -13.00      | -18.41       | V        |
| LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1696.02                                                                             | -34.65        | 9.56     | 9.72  | -34.81     | -13.00      | -21.81       | H        |
| 2544.69                                                                             | -34.69        | 10.50    | 10.86 | -35.05     | -13.00      | -22.05       | H        |
| 3393.15                                                                             | -33.29        | 12.78    | 11.57 | -32.08     | -13.00      | -19.08       | H        |
| 1696.02                                                                             | -35.04        | 9.56     | 9.72  | -35.20     | -13.00      | -22.20       | V        |
| 2544.69                                                                             | -34.34        | 10.50    | 10.86 | -34.70     | -13.00      | -21.70       | V        |
| 3393.15                                                                             | -32.50        | 12.78    | 11.57 | -31.29     | -13.00      | -18.29       | V        |

| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1650.19                                                                           | -34.18        | 9.56     | 9.72  | -34.34     | -13.00      | -21.34       | H        |
| 2476.05                                                                           | -34.77        | 10.50    | 10.86 | -35.13     | -13.00      | -22.13       | H        |
| 3301.71                                                                           | -33.06        | 12.78    | 11.57 | -31.85     | -13.00      | -18.85       | H        |
| 1650.19                                                                           | -34.72        | 9.56     | 9.72  | -34.88     | -13.00      | -21.88       | V        |
| 2476.05                                                                           | -34.63        | 10.50    | 10.86 | -34.99     | -13.00      | -21.99       | V        |
| 3301.71                                                                           | -32.70        | 12.78    | 11.57 | -31.49     | -13.00      | -18.49       | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1672.13                                                                           | -34.92        | 9.56     | 9.72  | -35.08     | -13.00      | -22.08       | H        |
| 2508.67                                                                           | -34.65        | 10.50    | 10.86 | -35.01     | -13.00      | -22.01       | H        |
| 3345.59                                                                           | -33.31        | 12.78    | 11.57 | -32.10     | -13.00      | -19.10       | H        |
| 1672.13                                                                           | -34.74        | 9.56     | 9.72  | -34.90     | -13.00      | -21.90       | V        |
| 2508.67                                                                           | -34.21        | 10.50    | 10.86 | -34.57     | -13.00      | -21.57       | V        |
| 3345.59                                                                           | -32.56        | 12.78    | 11.57 | -31.35     | -13.00      | -18.35       | V        |
| LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1694.27                                                                           | -33.64        | 9.56     | 9.72  | -33.80     | -13.00      | -20.80       | H        |
| 2542.00                                                                           | -34.55        | 10.50    | 10.86 | -34.91     | -13.00      | -21.91       | H        |
| 3389.26                                                                           | -32.35        | 12.78    | 11.57 | -31.14     | -13.00      | -18.14       | H        |
| 1694.27                                                                           | -35.67        | 9.56     | 9.72  | -35.83     | -13.00      | -22.83       | V        |
| 2542.00                                                                           | -35.13        | 10.50    | 10.86 | -35.49     | -13.00      | -22.49       | V        |
| 3389.26                                                                           | -31.81        | 12.78    | 11.57 | -30.60     | -13.00      | -17.60       | V        |

| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1652.34                                                                           | -34.23        | 9.56     | 9.72  | -34.39     | -13.00      | -21.39       | H        |
| 2478.69                                                                           | -34.58        | 10.50    | 10.86 | -34.94     | -13.00      | -21.94       | H        |
| 3305.71                                                                           | -33.11        | 12.78    | 11.57 | -31.90     | -13.00      | -18.90       | H        |
| 1652.34                                                                           | -35.18        | 9.56     | 9.72  | -35.34     | -13.00      | -22.34       | V        |
| 2478.69                                                                           | -34.47        | 10.50    | 10.86 | -34.83     | -13.00      | -21.83       | V        |
| 3305.71                                                                           | -32.75        | 12.78    | 11.57 | -31.54     | -13.00      | -18.54       | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1672.26                                                                           | -33.76        | 9.56     | 9.72  | -33.92     | -13.00      | -20.92       | H        |
| 2508.99                                                                           | -35.22        | 10.50    | 10.86 | -35.58     | -13.00      | -22.58       | H        |
| 3345.28                                                                           | -32.43        | 12.78    | 11.57 | -31.22     | -13.00      | -18.22       | H        |
| 1672.26                                                                           | -35.28        | 9.56     | 9.72  | -35.44     | -13.00      | -22.44       | V        |
| 2508.99                                                                           | -34.00        | 10.50    | 10.86 | -34.36     | -13.00      | -21.36       | V        |
| 3345.28                                                                           | -32.19        | 12.78    | 11.57 | -30.98     | -13.00      | -17.98       | V        |
| LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1692.14                                                                           | -34.02        | 9.56     | 9.72  | -34.18     | -13.00      | -21.18       | H        |
| 2538.73                                                                           | -34.54        | 10.50    | 10.86 | -34.90     | -13.00      | -21.90       | H        |
| 3385.84                                                                           | -32.29        | 12.78    | 11.57 | -31.08     | -13.00      | -18.08       | H        |
| 1692.14                                                                           | -35.69        | 9.56     | 9.72  | -35.85     | -13.00      | -22.85       | V        |
| 2538.73                                                                           | -34.11        | 10.50    | 10.86 | -34.47     | -13.00      | -21.47       | V        |
| 3385.84                                                                           | -32.69        | 12.78    | 11.57 | -31.48     | -13.00      | -18.48       | V        |

| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1657.70                                                                            | -34.69        | 9.56     | 9.72  | -34.85     | -13.00      | -21.85       | H        |
| 2486.28                                                                            | -34.83        | 10.50    | 10.86 | -35.19     | -13.00      | -22.19       | H        |
| 3315.20                                                                            | -32.35        | 12.78    | 11.57 | -31.14     | -13.00      | -18.14       | H        |
| 1657.70                                                                            | -35.21        | 9.56     | 9.72  | -35.37     | -13.00      | -22.37       | V        |
| 2486.28                                                                            | -34.71        | 10.50    | 10.86 | -35.07     | -13.00      | -22.07       | V        |
| 3315.20                                                                            | -32.15        | 12.78    | 11.57 | -30.94     | -13.00      | -17.94       | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1672.33                                                                            | -34.71        | 9.56     | 9.72  | -34.87     | -13.00      | -21.87       | H        |
| 2509.10                                                                            | -35.04        | 10.50    | 10.86 | -35.40     | -13.00      | -22.40       | H        |
| 3345.03                                                                            | -32.99        | 12.78    | 11.57 | -31.78     | -13.00      | -18.78       | H        |
| 1672.33                                                                            | -35.01        | 9.56     | 9.72  | -35.17     | -13.00      | -22.17       | V        |
| 2509.10                                                                            | -34.37        | 10.50    | 10.86 | -34.73     | -13.00      | -21.73       | V        |
| 3345.03                                                                            | -32.88        | 12.78    | 11.57 | -31.67     | -13.00      | -18.67       | V        |
| LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 1687.66                                                                            | -34.85        | 9.56     | 9.72  | -35.01     | -13.00      | -22.01       | H        |
| 2531.24                                                                            | -34.67        | 10.50    | 10.86 | -35.03     | -13.00      | -22.03       | H        |
| 3375.49                                                                            | -33.32        | 12.78    | 11.57 | -32.11     | -13.00      | -19.11       | H        |
| 1687.66                                                                            | -35.05        | 9.56     | 9.72  | -35.21     | -13.00      | -22.21       | V        |
| 2531.24                                                                            | -34.49        | 10.50    | 10.86 | -34.85     | -13.00      | -21.85       | V        |
| 3375.49                                                                            | -31.89        | 12.78    | 11.57 | -30.68     | -13.00      | -17.68       | V        |

| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-----------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5004.98                                                                           | -34.19        | 12.66    | 15.86 | -37.39     | -25.00      | -12.39       | H        |
| 7507.83                                                                           | -34.76        | 11.46    | 19.28 | -42.58     | -25.00      | -17.58       | H        |
| 10010.44                                                                          | -33.36        | 12.79    | 23.19 | -43.76     | -25.00      | -18.76       | H        |
| 5004.98                                                                           | -35.38        | 12.66    | 15.86 | -38.58     | -25.00      | -13.58       | V        |
| 7507.83                                                                           | -34.97        | 11.46    | 19.28 | -42.79     | -25.00      | -17.79       | V        |
| 10010.44                                                                          | -32.26        | 12.79    | 23.19 | -42.66     | -25.00      | -17.66       | V        |
| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5069.82                                                                           | -34.36        | 12.72    | 15.86 | -37.50     | -25.00      | -12.50       | H        |
| 7605.15                                                                           | -35.23        | 11.46    | 19.28 | -43.05     | -25.00      | -18.05       | H        |
| 10139.66                                                                          | -33.21        | 12.09    | 23.19 | -44.31     | -25.00      | -19.31       | H        |
| 5069.82                                                                           | -34.88        | 12.72    | 15.86 | -38.02     | -25.00      | -13.02       | V        |
| 7605.15                                                                           | -35.21        | 11.46    | 19.28 | -43.03     | -25.00      | -18.03       | V        |
| 10139.66                                                                          | -33.13        | 12.09    | 23.19 | -44.23     | -25.00      | -19.23       | V        |
| LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                    | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5133.93                                                                           | -34.38        | 12.76    | 15.86 | -37.48     | -25.00      | -12.48       | H        |
| 7701.53                                                                           | -35.28        | 11.45    | 19.28 | -43.11     | -25.00      | -18.11       | H        |
| 10268.48                                                                          | -33.60        | 12.28    | 23.19 | -44.51     | -25.00      | -19.51       | H        |
| 5133.93                                                                           | -35.92        | 12.76    | 15.86 | -39.02     | -25.00      | -14.02       | V        |
| 7701.53                                                                           | -35.12        | 11.45    | 19.28 | -42.95     | -25.00      | -17.95       | V        |
| 10268.48                                                                          | -32.21        | 12.28    | 23.19 | -43.12     | -25.00      | -18.12       | V        |

| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5010.21                                                                            | -34.32        | 12.66    | 15.86 | -37.52     | -25.00      | -12.52       | H        |
| 7515.34                                                                            | -34.61        | 11.46    | 19.28 | -42.43     | -25.00      | -17.43       | H        |
| 10020.67                                                                           | -33.19        | 12.79    | 23.19 | -43.59     | -25.00      | -18.59       | H        |
| 5010.21                                                                            | -35.53        | 12.66    | 15.86 | -38.73     | -25.00      | -13.73       | V        |
| 7515.34                                                                            | -34.38        | 11.46    | 19.28 | -42.20     | -25.00      | -17.20       | V        |
| 10020.67                                                                           | -33.12        | 12.79    | 23.19 | -43.52     | -25.00      | -18.52       | V        |
| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5069.72                                                                            | -34.71        | 12.72    | 15.86 | -37.85     | -25.00      | -12.85       | H        |
| 7604.92                                                                            | -35.00        | 11.46    | 19.28 | -42.82     | -25.00      | -17.82       | H        |
| 10139.70                                                                           | -32.16        | 12.09    | 23.19 | -43.26     | -25.00      | -18.26       | H        |
| 5069.72                                                                            | -36.01        | 12.72    | 15.86 | -39.15     | -25.00      | -14.15       | V        |
| 7604.92                                                                            | -35.19        | 11.46    | 19.28 | -43.01     | -25.00      | -18.01       | V        |
| 10139.70                                                                           | -32.91        | 12.09    | 23.19 | -44.01     | -25.00      | -19.01       | V        |
| LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5129.21                                                                            | -33.50        | 12.76    | 15.86 | -36.60     | -25.00      | -11.60       | H        |
| 7693.65                                                                            | -34.56        | 11.45    | 19.28 | -42.39     | -25.00      | -17.39       | H        |
| 10258.96                                                                           | -33.48        | 12.28    | 23.19 | -44.39     | -25.00      | -19.39       | H        |
| 5129.21                                                                            | -36.00        | 12.76    | 15.86 | -39.10     | -25.00      | -14.10       | V        |
| 7693.65                                                                            | -34.40        | 11.45    | 19.28 | -42.23     | -25.00      | -17.23       | V        |
| 10258.96                                                                           | -31.74        | 12.28    | 23.19 | -42.65     | -25.00      | -17.65       | V        |

| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5015.62                                                                            | -33.78        | 12.66    | 15.86 | -36.98     | -25.00      | -11.98       | H        |
| 7524.08                                                                            | -34.02        | 11.46    | 19.28 | -41.84     | -25.00      | -16.84       | H        |
| 10031.71                                                                           | -33.64        | 12.79    | 23.19 | -44.04     | -25.00      | -19.04       | H        |
| 5015.62                                                                            | -34.96        | 12.66    | 15.86 | -38.16     | -25.00      | -13.16       | V        |
| 7524.08                                                                            | -35.08        | 11.46    | 19.28 | -42.90     | -25.00      | -17.90       | V        |
| 10031.71                                                                           | -32.44        | 12.79    | 23.19 | -42.84     | -25.00      | -17.84       | V        |
| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5069.80                                                                            | -34.25        | 12.72    | 15.86 | -37.39     | -25.00      | -12.39       | H        |
| 7604.86                                                                            | -35.36        | 11.46    | 19.28 | -43.18     | -25.00      | -18.18       | H        |
| 10139.78                                                                           | -32.98        | 12.09    | 23.19 | -44.08     | -25.00      | -19.08       | H        |
| 5069.80                                                                            | -35.39        | 12.72    | 15.86 | -38.53     | -25.00      | -13.53       | V        |
| 7604.86                                                                            | -33.93        | 11.46    | 19.28 | -41.75     | -25.00      | -16.75       | V        |
| 10139.78                                                                           | -32.76        | 12.09    | 23.19 | -43.86     | -25.00      | -18.86       | V        |
| LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5123.24                                                                            | -34.84        | 12.76    | 15.86 | -37.94     | -25.00      | -12.94       | H        |
| 7523.80                                                                            | -34.71        | 11.45    | 19.28 | -42.54     | -25.00      | -17.54       | H        |
| 10031.89                                                                           | -33.43        | 12.28    | 23.19 | -44.34     | -25.00      | -19.34       | H        |
| 5123.24                                                                            | -34.84        | 12.76    | 15.86 | -37.94     | -25.00      | -12.94       | V        |
| 7523.80                                                                            | -35.07        | 11.45    | 19.28 | -42.90     | -25.00      | -17.90       | V        |
| 10031.89                                                                           | -31.89        | 12.28    | 23.19 | -42.80     | -25.00      | -17.80       | V        |

| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5021.28                                                                            | -33.82        | 12.66    | 15.86 | -37.02     | -25.00      | -12.02       | H        |
| 7531.19                                                                            | -35.04        | 11.46    | 19.28 | -42.86     | -25.00      | -17.86       | H        |
| 10258.81                                                                           | -32.46        | 12.79    | 23.19 | -42.86     | -25.00      | -17.86       | H        |
| 5021.28                                                                            | -34.80        | 12.66    | 15.86 | -38.00     | -25.00      | -13.00       | V        |
| 7531.19                                                                            | -35.00        | 11.46    | 19.28 | -42.82     | -25.00      | -17.82       | V        |
| 10258.81                                                                           | -32.83        | 12.79    | 23.19 | -43.23     | -25.00      | -18.23       | V        |
| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5069.97                                                                            | -33.96        | 12.72    | 15.86 | -37.10     | -25.00      | -12.10       | H        |
| 7604.71                                                                            | -35.31        | 11.46    | 19.28 | -43.13     | -25.00      | -18.13       | H        |
| 10140.03                                                                           | -32.73        | 12.09    | 23.19 | -43.83     | -25.00      | -18.83       | H        |
| 5069.97                                                                            | -35.56        | 12.72    | 15.86 | -38.70     | -25.00      | -13.70       | V        |
| 7604.71                                                                            | -34.94        | 11.46    | 19.28 | -42.76     | -25.00      | -17.76       | V        |
| 10140.03                                                                           | -32.76        | 12.09    | 23.19 | -43.86     | -25.00      | -18.86       | V        |
| LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 5118.85                                                                            | -33.89        | 12.76    | 15.86 | -36.99     | -25.00      | -11.99       | H        |
| 7678.14                                                                            | -35.11        | 11.45    | 19.28 | -42.94     | -25.00      | -17.94       | H        |
| 10237.62                                                                           | -33.54        | 12.28    | 23.19 | -44.45     | -25.00      | -19.45       | H        |
| 5118.85                                                                            | -34.54        | 12.76    | 15.86 | -37.64     | -25.00      | -12.64       | V        |
| 7678.14                                                                            | -35.15        | 11.45    | 19.28 | -42.98     | -25.00      | -17.98       | V        |
| 10237.62                                                                           | -31.79        | 12.28    | 23.19 | -42.70     | -25.00      | -17.70       | V        |

| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|--------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3421.32                                                                              | -33.78        | 12.90    | 12.56 | -33.44     | -13.00      | -20.44       | H        |
| 5132.02                                                                              | -35.26        | 13.10    | 16.32 | -38.48     | -13.00      | -25.48       | H        |
| 6842.38                                                                              | -33.04        | 12.33    | 21.13 | -41.84     | -13.00      | -28.84       | H        |
| 3421.32                                                                              | -34.92        | 12.90    | 12.56 | -34.58     | -13.00      | -21.58       | V        |
| 5132.02                                                                              | -34.33        | 13.10    | 16.32 | -37.55     | -13.00      | -24.55       | V        |
| 6842.38                                                                              | -32.46        | 12.33    | 21.13 | -41.26     | -13.00      | -28.26       | V        |
| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3489.95                                                                              | -33.56        | 12.90    | 12.56 | -33.22     | -13.00      | -20.22       | H        |
| 5235.26                                                                              | -34.87        | 13.10    | 16.32 | -38.09     | -13.00      | -25.09       | H        |
| 6980.05                                                                              | -32.18        | 12.33    | 21.13 | -40.98     | -13.00      | -27.98       | H        |
| 3489.95                                                                              | -35.40        | 12.90    | 12.56 | -35.06     | -13.00      | -22.06       | V        |
| 5235.26                                                                              | -34.28        | 13.10    | 16.32 | -37.50     | -13.00      | -24.50       | V        |
| 6980.05                                                                              | -31.84        | 12.33    | 21.13 | -40.64     | -13.00      | -27.64       | V        |
| LTE Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                       | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3557.95                                                                              | -34.51        | 12.90    | 12.56 | -34.17     | -13.00      | -21.17       | H        |
| 5337.13                                                                              | -34.59        | 13.10    | 16.32 | -37.81     | -13.00      | -24.81       | H        |
| 7117.23                                                                              | -32.64        | 12.33    | 21.13 | -41.44     | -13.00      | -28.44       | H        |
| 3557.95                                                                              | -35.54        | 12.90    | 12.56 | -35.20     | -13.00      | -22.20       | V        |
| 5337.13                                                                              | -34.38        | 13.10    | 16.32 | -37.60     | -13.00      | -24.60       | V        |
| 7117.23                                                                              | -32.56        | 12.33    | 21.13 | -41.36     | -13.00      | -28.36       | V        |

| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3422.88                                                                            | -33.95        | 12.90    | 12.56 | -33.61     | -13.00      | -20.61       | H        |
| 5134.39                                                                            | -35.16        | 13.10    | 16.32 | -38.38     | -13.00      | -25.38       | H        |
| 6845.80                                                                            | -32.88        | 12.33    | 21.13 | -41.68     | -13.00      | -28.68       | H        |
| 3422.88                                                                            | -35.37        | 12.90    | 12.56 | -35.03     | -13.00      | -22.03       | V        |
| 5134.39                                                                            | -35.00        | 13.10    | 16.32 | -38.22     | -13.00      | -25.22       | V        |
| 6845.80                                                                            | -32.59        | 12.33    | 21.13 | -41.39     | -13.00      | -28.39       | V        |
| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.02                                                                            | -34.55        | 12.90    | 12.56 | -34.21     | -13.00      | -21.21       | H        |
| 5235.20                                                                            | -34.45        | 13.10    | 16.32 | -37.67     | -13.00      | -24.67       | H        |
| 6980.02                                                                            | -32.33        | 12.33    | 21.13 | -41.13     | -13.00      | -28.13       | H        |
| 3490.02                                                                            | -35.05        | 12.90    | 12.56 | -34.71     | -13.00      | -21.71       | V        |
| 5235.20                                                                            | -33.93        | 13.10    | 16.32 | -37.15     | -13.00      | -24.15       | V        |
| 6980.02                                                                            | -32.58        | 12.33    | 21.13 | -41.38     | -13.00      | -28.38       | V        |
| LTE Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3557.09                                                                            | -34.41        | 12.90    | 12.56 | -34.07     | -13.00      | -21.07       | H        |
| 5262.12                                                                            | -34.92        | 13.10    | 16.32 | -38.14     | -13.00      | -25.14       | H        |
| 7113.93                                                                            | -33.13        | 12.33    | 21.13 | -41.93     | -13.00      | -28.93       | H        |
| 3557.09                                                                            | -35.10        | 12.90    | 12.56 | -34.76     | -13.00      | -21.76       | V        |
| 5262.12                                                                            | -34.16        | 13.10    | 16.32 | -37.38     | -13.00      | -24.38       | V        |
| 7113.93                                                                            | -32.83        | 12.33    | 21.13 | -41.63     | -13.00      | -28.63       | V        |

| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3425.03                                                                            | -33.78        | 12.90    | 12.56 | -33.44     | -13.00      | -20.44       | H        |
| 5137.41                                                                            | -34.62        | 13.10    | 16.32 | -37.84     | -13.00      | -24.84       | H        |
| 6850.36                                                                            | -33.28        | 12.33    | 21.13 | -42.08     | -13.00      | -29.08       | H        |
| 3425.03                                                                            | -35.19        | 12.90    | 12.56 | -34.85     | -13.00      | -21.85       | V        |
| 5137.41                                                                            | -33.80        | 13.10    | 16.32 | -37.02     | -13.00      | -24.02       | V        |
| 6850.36                                                                            | -32.37        | 12.33    | 21.13 | -41.17     | -13.00      | -28.17       | V        |
| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.05                                                                            | -34.44        | 12.90    | 12.56 | -34.10     | -13.00      | -21.10       | H        |
| 5235.18                                                                            | -35.11        | 13.10    | 16.32 | -38.33     | -13.00      | -25.33       | H        |
| 6979.93                                                                            | -33.45        | 12.33    | 21.13 | -42.25     | -13.00      | -29.25       | H        |
| 3490.05                                                                            | -34.77        | 12.90    | 12.56 | -34.43     | -13.00      | -21.43       | V        |
| 5235.18                                                                            | -35.17        | 13.10    | 16.32 | -38.39     | -13.00      | -25.39       | V        |
| 6979.93                                                                            | -32.65        | 12.33    | 21.13 | -41.45     | -13.00      | -28.45       | V        |
| LTE Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                     | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3558.14                                                                            | -34.89        | 12.90    | 12.56 | -34.55     | -13.00      | -21.55       | H        |
| 5234.77                                                                            | -35.17        | 13.10    | 16.32 | -38.39     | -13.00      | -25.39       | H        |
| 7110.14                                                                            | -32.33        | 12.33    | 21.13 | -41.13     | -13.00      | -28.13       | H        |
| 3558.14                                                                            | -35.60        | 12.90    | 12.56 | -35.26     | -13.00      | -22.26       | V        |
| 5234.77                                                                            | -35.00        | 13.10    | 16.32 | -38.22     | -13.00      | -25.22       | V        |
| 7110.14                                                                            | -32.81        | 12.33    | 21.13 | -41.61     | -13.00      | -28.61       | V        |

| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3429.82                                                                             | -34.46        | 12.90    | 12.56 | -34.12     | -13.00      | -21.12       | H        |
| 5144.79                                                                             | -35.13        | 13.10    | 16.32 | -38.35     | -13.00      | -25.35       | H        |
| 6879.96                                                                             | -33.26        | 12.33    | 21.13 | -42.06     | -13.00      | -29.06       | H        |
| 3429.82                                                                             | -35.34        | 12.90    | 12.56 | -35.00     | -13.00      | -22.00       | V        |
| 5144.79                                                                             | -35.17        | 13.10    | 16.32 | -38.39     | -13.00      | -25.39       | V        |
| 6879.96                                                                             | -32.63        | 12.33    | 21.13 | -41.43     | -13.00      | -28.43       | V        |
| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.08                                                                             | -34.38        | 12.90    | 12.56 | -34.04     | -13.00      | -21.04       | H        |
| 5234.99                                                                             | -35.19        | 13.10    | 16.32 | -38.41     | -13.00      | -25.41       | H        |
| 6980.29                                                                             | -33.52        | 12.33    | 21.13 | -42.32     | -13.00      | -29.32       | H        |
| 3490.08                                                                             | -35.65        | 12.90    | 12.56 | -35.31     | -13.00      | -22.31       | V        |
| 5234.99                                                                             | -33.79        | 13.10    | 16.32 | -37.01     | -13.00      | -24.01       | V        |
| 6980.29                                                                             | -33.05        | 12.33    | 21.13 | -41.85     | -13.00      | -28.85       | V        |
| LTE Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3550.63                                                                             | -34.20        | 12.90    | 12.56 | -33.86     | -13.00      | -20.86       | H        |
| 5235.44                                                                             | -35.05        | 13.10    | 16.32 | -38.27     | -13.00      | -25.27       | H        |
| 7099.91                                                                             | -33.02        | 12.33    | 21.13 | -41.82     | -13.00      | -28.82       | H        |
| 3550.63                                                                             | -35.26        | 12.90    | 12.56 | -34.92     | -13.00      | -21.92       | V        |
| 5235.44                                                                             | -35.12        | 13.10    | 16.32 | -38.34     | -13.00      | -25.34       | V        |
| 7099.91                                                                             | -32.56        | 12.33    | 21.13 | -41.36     | -13.00      | -28.36       | V        |

| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3434.88                                                                             | -34.87        | 12.90    | 12.56 | -34.53     | -13.00      | -21.53       | H        |
| 5152.31                                                                             | -34.91        | 13.10    | 16.32 | -38.13     | -13.00      | -25.13       | H        |
| 6870.19                                                                             | -32.90        | 12.33    | 21.13 | -41.70     | -13.00      | -28.70       | H        |
| 3434.88                                                                             | -35.28        | 12.90    | 12.56 | -34.94     | -13.00      | -21.94       | V        |
| 5152.31                                                                             | -34.69        | 13.10    | 16.32 | -37.91     | -13.00      | -24.91       | V        |
| 6870.19                                                                             | -33.15        | 12.33    | 21.13 | -41.95     | -13.00      | -28.95       | V        |
| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3490.21                                                                             | -34.63        | 12.90    | 12.56 | -34.29     | -13.00      | -21.29       | H        |
| 5235.16                                                                             | -35.45        | 13.10    | 16.32 | -38.67     | -13.00      | -25.67       | H        |
| 6979.88                                                                             | -33.28        | 12.33    | 21.13 | -42.08     | -13.00      | -29.08       | H        |
| 3490.21                                                                             | -35.54        | 12.90    | 12.56 | -35.20     | -13.00      | -22.20       | V        |
| 5235.16                                                                             | -33.98        | 13.10    | 16.32 | -37.20     | -13.00      | -24.20       | V        |
| 6979.88                                                                             | -33.02        | 12.33    | 21.13 | -41.82     | -13.00      | -28.82       | V        |
| LTE Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3544.87                                                                             | -34.73        | 12.90    | 12.56 | -34.39     | -13.00      | -21.39       | H        |
| 5332.70                                                                             | -34.76        | 13.10    | 16.32 | -37.98     | -13.00      | -24.98       | H        |
| 7089.78                                                                             | -33.43        | 12.33    | 21.13 | -42.23     | -13.00      | -29.23       | H        |
| 3544.87                                                                             | -34.66        | 12.90    | 12.56 | -34.32     | -13.00      | -21.32       | V        |
| 5332.70                                                                             | -34.04        | 13.10    | 16.32 | -37.26     | -13.00      | -24.26       | V        |
| 7089.78                                                                             | -32.76        | 12.33    | 21.13 | -41.56     | -13.00      | -28.56       | V        |

| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest  |               |          |       |            |             |              |          |
|-------------------------------------------------------------------------------------|---------------|----------|-------|------------|-------------|--------------|----------|
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3440.28                                                                             | -33.99        | 12.90    | 12.56 | -33.65     | -13.00      | -20.65       | H        |
| 5159.90                                                                             | -35.25        | 13.10    | 16.32 | -38.47     | -13.00      | -25.47       | H        |
| 6879.89                                                                             | -32.76        | 12.33    | 21.13 | -41.56     | -13.00      | -28.56       | H        |
| 3440.28                                                                             | -34.61        | 12.90    | 12.56 | -34.27     | -13.00      | -21.27       | V        |
| 5159.90                                                                             | -34.30        | 13.10    | 16.32 | -37.52     | -13.00      | -24.52       | V        |
| 6879.89                                                                             | -32.49        | 12.33    | 21.13 | -41.29     | -13.00      | -28.29       | V        |
| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle  |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3489.85                                                                             | -33.62        | 12.90    | 12.56 | -33.28     | -13.00      | -20.28       | H        |
| 5235.20                                                                             | -35.47        | 13.10    | 16.32 | -38.69     | -13.00      | -25.69       | H        |
| 6979.86                                                                             | -32.28        | 12.33    | 21.13 | -41.08     | -13.00      | -28.08       | H        |
| 3489.85                                                                             | -35.66        | 12.90    | 12.56 | -35.32     | -13.00      | -22.32       | V        |
| 5235.20                                                                             | -34.07        | 13.10    | 16.32 | -37.29     | -13.00      | -24.29       | V        |
| 6979.86                                                                             | -32.96        | 12.33    | 21.13 | -41.76     | -13.00      | -28.76       | V        |
| LTE Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest |               |          |       |            |             |              |          |
| Frequency(MHz)                                                                      | S G.Lev (dBm) | Ant(dBi) | Loss  | PMea (dBm) | Limit (dBm) | Margin (dBm) | Polarity |
| 3540.15                                                                             | -34.94        | 12.90    | 12.56 | -34.60     | -13.00      | -21.60       | H        |
| 5309.87                                                                             | -34.31        | 13.10    | 16.32 | -37.53     | -13.00      | -24.53       | H        |
| 7080.80                                                                             | -33.27        | 12.33    | 21.13 | -42.07     | -13.00      | -29.07       | H        |
| 3540.15                                                                             | -34.60        | 12.90    | 12.56 | -34.26     | -13.00      | -21.26       | V        |
| 5309.87                                                                             | -33.96        | 13.10    | 16.32 | -37.18     | -13.00      | -24.18       | V        |
| 7080.80                                                                             | -32.80        | 12.33    | 21.13 | -41.60     | -13.00      | -28.60       | V        |



#### APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*