



# FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.  
EQUIPMENT : 5G Module  
BRAND NAME : Fibocom  
MODEL NAME : FM350-GL  
FCC ID : ZMOFM350GL  
STANDARD : 47 CFR Part 2, 27(F), 27(H), 27(M), 27(N)  
CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 18, 2020 and completely tested on Jan. 19, 2021. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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**People's Republic of China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG051802C  | Rev. 01 | Initial issue of report | Apr. 02, 2021 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                          | Description                                                                   | Limit                               | Result | Remark                                        |
|----------------|---------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|--------|-----------------------------------------------|
| 3.4            | §2.1046                                           | Conducted Output Power                                                        | Reporting Only                      | PASS   | -                                             |
|                | §27.50(b)(10)<br>§27.50(c)(10)                    | Effective Radiated Power<br>(Band 12) (Band 13) (Band 17)<br>(Band 71)        | ERP < 3 Watt                        | PASS   |                                               |
|                | §27.50(h)(2)                                      | Equivalent Isotropic Radiated Power<br>(Band 7) (Band 38) (Band 41)           | EIRP < 2Watt                        | PASS   |                                               |
| 3.5            | N/A                                               | Peak-to-Average Ratio                                                         | <13 dB                              | PASS   | -                                             |
| 3.6            | §2.1049                                           | Occupied Bandwidth                                                            | Reporting Only                      | PASS   | -                                             |
| 3.7            | §2.1051<br>§27.53(c)(2)(4)<br>§27.53(g)           | Conducted Band Edge Measurement<br>(Band 12) (Band 13) (Band 17)<br>(Band 71) | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | -                                             |
|                | §27.53(m)(4)                                      | Conducted Band Edge Measurement<br>(Band 7) (Band 38) (Band 41)               | §27.53(m)(4)                        |        |                                               |
| 3.8            | §2.1051<br>§27.53(c)(2)<br>§27.53(g)              | Conducted Spurious Emission<br>(Band 12) (Band 13) (Band 17)<br>(Band 71)     | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | -                                             |
|                | §2.1051<br>§27.53(m)(4)                           | Conducted Spurious Emission<br>(Band 7) (Band 38) (Band 41)                   | < 55+10log <sub>10</sub> (P[Watts]) |        |                                               |
| 3.9            | §2.1055<br>§27.54                                 | Frequency Stability<br>Temperature & Voltage                                  | Within Authorized Band              | PASS   | -                                             |
| 4.4            | §2.1053<br>§27.53(c)(2)<br>§27.53(f)<br>§27.53(g) | Radiated Spurious Emission<br>(Band 12) (Band 13) (Band 17)<br>(Band 71)      | < 43+10log <sub>10</sub> (P[Watts]) | PASS   | Under limit<br>22.84 dB at<br>1564.500<br>MHz |
|                | §2.1053<br>§27.53(m)(4)                           | Radiated Spurious Emission<br>(Band 7) (Band 38) (Band 41)                    | < 55+10log <sub>10</sub> (P[Watts]) |        |                                               |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Fibocom Wireless Inc.

1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

## 1.2 Manufacturer

Fibocom Wireless Inc.

1101,Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,Shenzhen, China

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| Equipment                       | 5G Module                                                |
| Brand Name                      | Fibocom                                                  |
| Model Name                      | FM350-GL                                                 |
| FCC ID                          | ZMOFM350GL                                               |
| EUT supports Radios application | WCDMA/LTE/5G NR/GNSS                                     |
| IMEI Code                       | Conducted: 862146050001310<br>Radiation: 882146050002276 |
| HW Version                      | V1.0.6                                                   |
| SW Version                      | 81600.0000.00.09.03.03                                   |
| EUT Stage                       | Identical Prototype                                      |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tx Frequency                            | LTE Band 7 : 2500 MHz ~ 2570 MHz<br>LTE Band 12 : 699 MHz ~ 716 MHz<br>LTE Band 13 : 777 MHz ~ 787 MHz<br>LTE Band 17 : 704 MHz ~ 716 MHz<br>LTE Band 38 : 2570 MHz ~ 2620 MHz<br>LTE Band 41 : 2496 MHz ~ 2690 MHz<br>LTE Band 71: 663 MHz ~ 698 MHz |
| Rx Frequency                            | LTE Band 7 : 2620 MHz ~ 2690 MHz<br>LTE Band 12 : 729 MHz ~ 746 MHz<br>LTE Band 13 : 746 MHz ~ 756 MHz<br>LTE Band 17 : 734 MHz ~ 746 MHz<br>LTE Band 38: 2570 MHz ~ 2620 MHz<br>LTE Band 41 : 2496 MHz ~ 2690 MHz<br>LTE Band 71: 617 MHz ~ 652 MHz  |
| Bandwidth                               | LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz<br>LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz                                                                                                                                                                |

|                                        |                                                                                                                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | LTE Band 13 : 5MHz / 10MHz<br>LTE Band 17 : 5MHz / 10MHz<br>LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz                                                                           |
| <b>Maximum Output Power to Antenna</b> | LTE Band 7 : 22.58 dBm;<br>LTE Band 7C : 21.74 dBm<br>LTE Band 12 : 24.02 dBm<br>LTE Band 13 : 23.67 dBm<br>LTE Band 17 : 23.86 dBm<br>LTE Band 38 : 22.39 dBm<br>LTE Band 38C : 21.70 dBm<br>LTE Band 41 : 26.40 dBm<br>LTE Band 41C : 21.90 dBm<br>LTE Band 71 : 23.81 dBm |
| <b>Antenna Gain</b>                    | LTE Band 7 : 4.00 dBi<br>LTE Band 12 : 3.00 dBi<br>LTE Band 13 : 3.00 dBi<br>LTE Band 17 : 3.00 dBi<br>LTE Band 38 : 4.00 dBi<br>LTE Band 41 : 4.00 dBi<br>LTE Band 71 : 3.00 dBi                                                                                            |
| <b>Type of Modulation</b>              | QPSK / 16QAM / 64QAM / 256QAM                                                                                                                                                                                                                                                |

## 1.5 Modification of EUT

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



## 1.6 Maximum Conducted Power, Frequency Tolerance, and Emission Designator

| LTE Band 7 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)   | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5          | 2502.5 ~ 2567.5       | 4M50G7D                      | -                         | 0.1782             | 4M50W7D                      | -                         | 0.1531             |
| 10         | 2505.0 ~ 2565.0       | 9M03G7D                      | 0.0015                    | 0.1782             | 9M07W7D                      | -                         | 0.1574             |
| 15         | 2507.5 ~ 2562.5       | 13M5G7D                      | -                         | 0.1718             | 13M5W7D                      | -                         | 0.1552             |
| 20         | 2510.0 ~ 2560.0       | 17M9G7D                      | -                         | 0.1811             | 17M9W7D                      | -                         | 0.1567             |
| LTE Band 7 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)   | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5          | 2502.5 ~ 2567.5       | 4M51W7D                      | -                         | 0.1186             |                              |                           |                    |
| 10         | 2505.0 ~ 2565.0       | 9M05W7D                      | -                         | 0.1151             |                              |                           |                    |
| 15         | 2507.5 ~ 2562.5       | 13M5W7D                      | -                         | 0.1172             |                              |                           |                    |
| 20         | 2510.0 ~ 2560.0       | 17M9W7D                      | -                         | 0.1151             |                              |                           |                    |

| LTE Band 12 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 1.4         | 699.7 ~ 715.3         | 1M09G7D                      | -                         | 0.2449             | 1M10W7D                      | -                         | 0.2118             |
| 3           | 700.5 ~ 714.5         | 2M74G7D                      | -                         | 0.2460             | 2M73W7D                      | -                         | 0.2223             |
| 5           | 701.5 ~ 713.5         | 4M50G7D                      | -                         | 0.2518             | 4M49W7D                      | -                         | 0.2234             |
| 10          | 704.0 ~ 711.0         | 9M07G7D                      | 0.0071                    | 0.2523             | 9M05W7D                      | -                         | 0.2188             |
| LTE Band 12 |                       | 6QAM                         |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 1.4         | 699.7 ~ 715.3         | 1M10W7D                      | -                         | 0.1585             |                              |                           |                    |
| 3           | 700.5 ~ 714.5         | 2M73W7D                      | -                         | 0.1644             |                              |                           |                    |
| 5           | 701.5 ~ 713.5         | 4M50W7D                      | -                         | 0.1652             |                              |                           |                    |
| 10          | 704.0 ~ 711.0         | 9M03W7D                      | -                         | 0.1644             |                              |                           |                    |



| LTE Band 13 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5           | 779.5 ~ 784.5         | 4M51G7D                      | -                         | 0.2307             | 4M49W7D                      | -                         | 0.2046             |
| 10          | 782.0                 | 9M01G7D                      | 0.0237                    | 0.2328             | 9M01W7D                      | -                         | 0.1892             |
| LTE Band 13 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5           | 779.5 ~ 784.5         | 4M51W7D                      | -                         | 0.1549             |                              |                           |                    |
| 10          | 782.0                 | 9M01W7D                      | -                         | 0.1479             |                              |                           |                    |

| LTE Band 17 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5           | 706.5 ~ 713.5         | 4M50G7D                      | -                         | 0.2518             | 4M49W7D                      | -                         | 0.2234             |
| 10          | 709.0 ~ 711.0         | 9M07G7D                      | 0.0071                    | 0.2523             | 9M05W7D                      | -                         | 0.2188             |
| LTE Band 17 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5           | 706.5 ~ 713.5         | 4M50W7D                      | -                         | 0.1652             |                              |                           |                    |
| 10          | 709.0 ~ 711.0         | 9M03W7D                      | -                         | 0.1644             |                              |                           |                    |



| LTE Band 38 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5           | 2572.5 ~ 2617.5       | 4M50G7D                      | -                         | 0.1706             | 4M51W7D                      | -                         | 0.1384             |
| 10          | 2575.0 ~ 2615.0       | 9M05G7D                      | 0.0089                    | 0.1718             | 9M05W7D                      | -                         | 0.1374             |
| 15          | 2577.5 ~ 2612.5       | 13M5G7D                      | -                         | 0.1675             | 13M5W7D                      | -                         | 0.1355             |
| 20          | 2580.0 ~ 2610.0       | 17M9G7D                      | -                         | 0.1734             | 17M9W7D                      | -                         | 0.1365             |
| LTE Band 38 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5           | 2572.5 ~ 2617.5       | 4M49W7D                      | -                         | 0.1084             |                              |                           |                    |
| 10          | 2575.0 ~ 2615.0       | 9M21W7D                      | -                         | 0.1079             |                              |                           |                    |
| 15          | 2577.5 ~ 2612.5       | 13M5W7D                      | -                         | 0.1089             |                              |                           |                    |
| 20          | 2580.0 ~ 2610.0       | 18M0W7D                      | -                         | 0.1050             |                              |                           |                    |

| LTE Band 41 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5           | 2498.5 ~ 2687.5       | 4M50G7D                      | -                         | 0.4345             | 4M51W7D                      | -                         | 0.3698             |
| 10          | 2501.0 ~ 2685.0       | 9M05G7D                      | 0.0089                    | 0.4335             | 9M05W7D                      | -                         | 0.3698             |
| 15          | 2503.5 ~ 2682.5       | 13M5G7D                      | -                         | 0.4345             | 13M5W7D                      | -                         | 0.3656             |
| 20          | 2506.0 ~ 2680.0       | 17M9G7D                      | -                         | 0.4365             | 17M9W7D                      | -                         | 0.3656             |
| LTE Band 41 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5           | 2498.5 ~ 2687.5       | 4M49W7D                      | -                         | 0.2864             |                              |                           |                    |
| 10          | 2501.0 ~ 2685.0       | 9M21W7D                      | -                         | 0.2844             |                              |                           |                    |
| 15          | 2503.5 ~ 2682.5       | 13M5W7D                      | -                         | 0.2831             |                              |                           |                    |
| 20          | 2506.0 ~ 2680.0       | 18M0W7D                      | -                         | 0.2825             |                              |                           |                    |



| LTE Band 71 |                       | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|-------------|-----------------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5           | 665.5 ~ 695.5         | 4M49G7D                      | -                         | 0.2198             | 4M50W7D                      | -                         | 0.2355             |
| 10          | 668.0 ~ 693.0         | 9M11G7D                      | 0.0041                    | 0.2218             | 9M05W7D                      | -                         | 0.2371             |
| 15          | 670.5 ~ 690.5         | 13M5G7D                      | -                         | 0.2183             | 13M4W7D                      | -                         | 0.2355             |
| 20          | 673.0 ~ 688.0         | 18M0G7D                      | -                         | 0.2404             | 17M9W7D                      | -                         | 0.2399             |
| LTE Band 71 |                       | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)    | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5           | 665.5 ~ 695.5         | 4M50W7D                      | -                         | 0.2280             |                              |                           |                    |
| 10          | 668.0 ~ 693.0         | 9M03W7D                      | -                         | 0.2291             |                              |                           |                    |
| 15          | 670.5 ~ 690.5         | 13M5W7D                      | -                         | 0.2249             |                              |                           |                    |
| 20          | 673.0 ~ 688.0         | 17M9W7D                      | -                         | 0.2265             |                              |                           |                    |



| LTE Band 7 CA | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|---------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)      | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 10MHz+20MHz   | 28M1G7D                      | -                         | 0.1452             | 27M9W7D                      | -                         | 0.1309             |
| 15MHz+10MHz   | 23M4G7D                      | -                         | 0.1459             | 23M5W7D                      | -                         | 0.1279             |
| 15MHz+15MHz   | 28M5G7D                      | -                         | 0.1439             | 28M8W7D                      | -                         | 0.1291             |
| 15MHz+20MHz   | 32M8G7D                      | -                         | 0.1483             | 32M7W7D                      | -                         | 0.1276             |
| 20MHz+10MHz   | 28M0G7D                      | -                         | 0.1493             | 27M9W7D                      | -                         | 0.1294             |
| 20MHz+15MHz   | 33M0G7D                      | -                         | 0.1493             | 32M6W7D                      | -                         | 0.1309             |
| 20MHz+20MHz   | 37M8G7D                      | -                         | 0.1442             | 38M0W7D                      | -                         | 0.1343             |

| LTE Band 7 CA | 64QAM                        |                           |                    |
|---------------|------------------------------|---------------------------|--------------------|
| BW (MHz)      | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 10MHz+20MHz   | 27M9W7D                      | -                         | 0.0764             |
| 15MHz+10MHz   | 23M4W7D                      | -                         | 0.0767             |
| 15MHz+15MHz   | 28M5W7D                      | -                         | 0.0767             |
| 15MHz+20MHz   | 32M5W7D                      | -                         | 0.0771             |
| 20MHz+10MHz   | 28M0W7D                      | -                         | 0.0743             |
| 20MHz+15MHz   | 32M8W7D                      | -                         | 0.0771             |
| 20MHz+20MHz   | 37M6W7D                      | -                         | 0.0794             |

| LTE Band 38 CA | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|----------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)       | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 15MHz+15MHz    | 28M6G7D                      | -                         | 0.1479             | 28M7W7D                      | -                         | 0.1199             |
| 20MHz+20MHz    | 37M7G7D                      | -                         | 0.1409             | 37M8W7D                      | -                         | 0.1119             |

| LTE Band 38 CA | 64QAM                        |                           |                    |
|----------------|------------------------------|---------------------------|--------------------|
| BW (MHz)       | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 15MHz+15MHz    | 28M7W7D                      | -                         | 0.0757             |
| 20MHz+20MHz    | 37M8W7D                      | -                         | 0.0703             |



| LTE Band 41 CA | QPSK                         |                           |                    | 16QAM                        |                           |                    |
|----------------|------------------------------|---------------------------|--------------------|------------------------------|---------------------------|--------------------|
| BW (MHz)       | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |
| 5MHz+20MHz     | 23M4G7D                      | -                         | 0.1524             | 23M3W7D                      | -                         | 0.1222             |
| 10MHz+15MHz    | 23M5G7D                      | -                         | 0.1521             | 23M6W7D                      | -                         | 0.1239             |
| 10MHz+20MHz    | 28M2G7D                      | -                         | 0.1538             | 27M8W7D                      | -                         | 0.1197             |
| 15MHz+10MHz    | 23M6G7D                      | -                         | 0.1524             | 23M6W7D                      | -                         | 0.1208             |
| 15MHz+15MHz    | 28M7G7D                      | -                         | 0.1476             | 28M5W7D                      | -                         | 0.1197             |
| 15MHz+20MHz    | 32M9G7D                      | -                         | 0.1500             | 32M9W7D                      | -                         | 0.1225             |
| 20MHz+5MHz     | 23M4G7D                      | -                         | 0.1500             | 23M3W7D                      | -                         | 0.1199             |
| 20MHz+10MHz    | 28M1G7D                      | -                         | 0.1500             | 28M1W7D                      | -                         | 0.1219             |
| 20MHz+15MHz    | 32M9G7D                      | -                         | 0.1549             | 32M8W7D                      | -                         | 0.1239             |
| 20MHz+20MHz    | 37M7G7D                      | -                         | 0.1521             | 37M9W7D                      | -                         | 0.1205             |
| LTE Band 41 CA | 64QAM                        |                           |                    |                              |                           |                    |
| BW (MHz)       | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Conducted Power(W) |                              |                           |                    |
| 5MHz+20MHz     | 23M4W7D                      | -                         | 0.0798             |                              |                           |                    |
| 10MHz+15MHz    | 23M5W7D                      | -                         | 0.0800             |                              |                           |                    |
| 10MHz+20MHz    | 27M9W7D                      | -                         | 0.0804             |                              |                           |                    |
| 15MHz+10MHz    | 23M4W7D                      | -                         | 0.0798             |                              |                           |                    |
| 15MHz+15MHz    | 28M8W7D                      | -                         | 0.0796             |                              |                           |                    |
| 15MHz+20MHz    | 32M9W7D                      | -                         | 0.0785             |                              |                           |                    |
| 20MHz+5MHz     | 23M3W7D                      | -                         | 0.0800             |                              |                           |                    |
| 20MHz+10MHz    | 28M1W7D                      | -                         | 0.0794             |                              |                           |                    |
| 20MHz+15MHz    | 32M8W7D                      | -                         | 0.0815             |                              |                           |                    |
| 20MHz+20MHz    | 37M6W7D                      | -                         | 0.0798             |                              |                           |                    |

**Note:**

1. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
2. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

## 1.7 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

|                           |                                                                                                                                                                         |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International (Shenzhen) Inc.                                                                                                                                   |                            |                                       |
| <b>Test Site Location</b> | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                 | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-SZ                                                                                                                                                                 | CN1256                     | 421272                                |

|                           |                                                                                                                                                                                           |                            |                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Firm</b>          | Sporton International (Shenzhen) Inc.                                                                                                                                                     |                            |                                       |
| <b>Test Site Location</b> | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103<br>TEL: +86-755-33202398 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                                   | <b>FCC Designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | 03CH03-SZ                                                                                                                                                                                 | CN1256                     | 421272                                |

## 1.8 Test Software

| Item | Site      | Manufacturer | Name | Version     |
|------|-----------|--------------|------|-------------|
| 1.   | 03CH03-SZ | AUDIX        | E3   | 6.2009-8-24 |

## 1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 27(F), 27(H), 27(M), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

| Test Items             | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|------------------------|------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                        |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power      | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 12   | v               | v | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 13   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                        | 71   | -               | - | v | v  | v  | v  | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
| Peak-to-Average Ratio  | 7    | -               | - |   |    |    | v  | v          | v     | v     |        | v    |      | v    | v            | v | v |
|                        | 12   |                 |   |   | v  | -  | -  | v          | v     | v     |        | v    |      | v    | v            | v | v |
|                        | 13   | -               | - |   | v  | -  | -  | v          | v     | v     |        | v    |      | v    | v            | v | v |
|                        | 41   | -               | - |   |    |    | v  | v          | v     | v     |        | v    |      | v    | v            | v | v |
|                        | 71   | -               | - |   |    |    | v  | v          | v     | v     |        | v    |      | v    | v            | v | v |
| 26dB and 99% Bandwidth | 7    | -               | - | v | v  | v  | v  | v          | v     | v     |        |      |      | v    | v            | v | v |
|                        | 12   | v               | v | v | v  | -  | -  | v          | v     | v     |        |      |      | v    | v            | v | v |
|                        | 13   | -               | - | v | v  | -  | -  | v          | v     | v     |        |      |      | v    | v            | v | v |
|                        | 41   | -               | - | v | v  | v  | v  | v          | v     | v     |        |      |      | v    | v            | v | v |
|                        | 71   | -               | - | v | v  | v  | v  | v          | v     | v     |        |      |      | v    | v            | v | v |
| Conducted Band Edge    | 7    | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      | v    | v            |   | v |
|                        | 12   | v               | v | v | v  | -  | -  | v          | v     | v     |        | v    |      | v    | v            |   | v |
|                        | 13   | -               | - | v | v  | -  | -  | v          | v     | v     |        | v    |      | v    | v            |   | v |
|                        | 41   | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      | v    | v            |   | v |
|                        | 71   | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      | v    | v            |   | v |

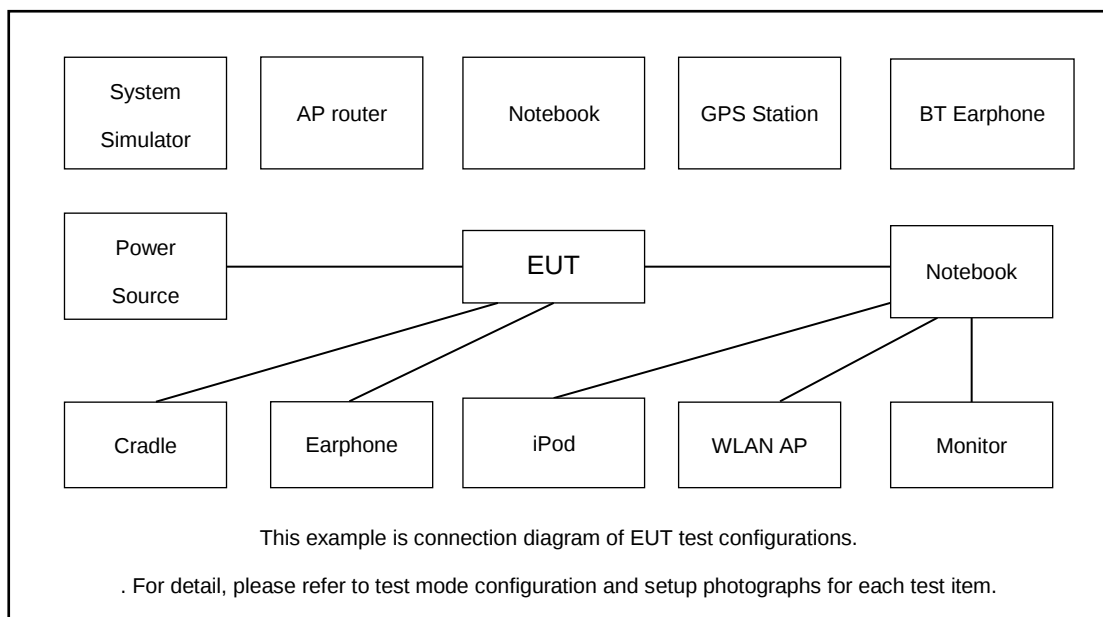


| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Conducted Spurious Emission | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | v               | v | v | v  | -  | -  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | -  | -  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
| Frequency Stability         | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                             | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |   |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                             | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - |   | v  | -  | -  | v          |       |       |        |      |      | v    |              | v |   |
|                             | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
|                             | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - |   | v  |    |    | v          |       |       |        |      |      | v    |              | v |   |
| E.R.P / E.I.R.P             | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | v               | v | v | v  | -  | -  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | -  | -  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -               | - | v | v  | v  | v  | v          | v     | v     |        | v    |      |      | v            | v | v |
| Radiated Spurious Emission  | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Worst Case      |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                             | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Worst Case      |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                             | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Worst Case      |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                             | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Worst Case      |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
|                             | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Worst Case      |   |   |    |    |    |            |       |       |        |      |      |      | v            | v | v |
| Note                        | <div>1. The mark “v “ means that this configuration is chosen for testing</div> <div>2. The mark “-“ means that this bandwidth is not supported.</div> <div>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</div> <div>4. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.</div> <div>5. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.</div> <div>6. For modulation of 256QAM, the maximum power of 256QAM is lower than other modulation (QPSK/16QAM/64QAM), therefore, according to engineering evaluation, we choose higher power (QPSK/16QAM/64QAM) to perform all tests and show in the report.</div> <div>7. LTE Band 41 support HPUE.</div> |                 |   |   |    |    |    |            |       |       |        |      |      |      |              |   |   |



| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bandwidth (MHz) |       |       |       |       |      |      |       |       |       | Modulation |       |       |        | RB # |      |      | Test Channel |   |   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|------------|-------|-------|--------|------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20+20           | 20+15 | 15+20 | 20+10 | 10+20 | 20+5 | 5+20 | 15+15 | 15+10 | 10+15 | QPSK       | 16QAM | 64QAM | 256QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v               | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v      | v    | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth      | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v               | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     |        |      |      | v    | v            | v | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |        |      |      | v    | v            | v | v |
| Conducted Band Edge         | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v               | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     |        | v    |      | v    | v            |   | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |        | v    |      | v    | v            |   | v |
| Conducted Spurious Emission | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v               | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |        | v    |      |      | v            | v | v |
| E.I.R.P.                    | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | v               | v     | v     | v     | v     | -    | -    | v     | v     | -     | v          | v     | v     |        | v    |      |      | v            | v | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |        | v    |      |      | v            | v | v |
| Radiated Spurious Emission  | 7C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Worst Case      |       |       |       |       |      |      |       |       |       |            |       |       |        |      |      |      | v            | v | v |
|                             | 41C_CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Worst Case      |       |       |       |       |      |      |       |       |       |            |       |       |        |      |      |      | v            | v | v |
| Note                        | <div>1. The mark “v ” means that this configuration is chosen for testing</div> <div>2. The mark “-” means that this bandwidth is not supported.</div> <div>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</div> <div>4. LTE Band 41C overlaps the entire frequency range of LTE Band 38C. Therefore, the test results provided in this report covers Band 41C as well as Band 38C.</div> <div>5. For modulation of 256QAM, the maximum power of 256QAM is lower than other modulation (QPSK/16QAM/64QAM), therefore, according to engineering evaluation, we choose higher power (QPSK/16QAM/64QAM) to perform all tests and show in the report.</div> |                 |       |       |       |       |      |      |       |       |       |            |       |       |        |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable | Power Cord        |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1.   | Power Supply     | GWINSTEK   | PSS-2002  | N/A    | N/A        | Unshielded, 1.8 m |
| 2.   | LTE Base Station | Anritsu    | MT8820C   | N/A    | N/A        | Unshielded, 1.8 m |

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.0 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\
 &= 4.0 + 10 = 14.0 \text{ (dB)}
 \end{aligned}$$

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

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

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

| LTE Band 13 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | -      | 23230  | -       |
|                                        | Frequency              | -      | 782    | -       |
| 5                                      | Channel                | 23205  | 23230  | 23255   |
|                                        | Frequency              | 779.5  | 782    | 784.5   |



| LTE Band 17 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                     | Channel                | 23780  | 23790  | 23800   |
|                                        | Frequency              | 709    | 710    | 711     |
| 5                                      | Channel                | 23755  | 23790  | 23825   |
|                                        | Frequency              | 706.5  | 710    | 713.5   |

| LTE Band 38 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 37850  | 38000  | 38150   |
|                                        | Frequency              | 2580   | 2595   | 2610    |
| 15                                     | Channel                | 37825  | 38000  | 38175   |
|                                        | Frequency              | 2577.5 | 2595   | 2612.5  |
| 10                                     | Channel                | 37800  | 38000  | 38200   |
|                                        | Frequency              | 2575   | 2595   | 2615    |
| 5                                      | Channel                | 37775  | 38000  | 38225   |
|                                        | Frequency              | 2572.5 | 2595   | 2617.5  |

| LTE Band 41 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 39750  | 40620  | 41490   |
|                                        | Frequency              | 2506   | 2593   | 2680    |
| 15                                     | Channel                | 39725  | 40620  | 41515   |
|                                        | Frequency              | 2503.5 | 2593   | 2682.5  |
| 10                                     | Channel                | 39700  | 40620  | 41540   |
|                                        | Frequency              | 2501   | 2593   | 2685    |
| 5                                      | Channel                | 39675  | 40620  | 41565   |
|                                        | Frequency              | 2498.5 | 2593   | 2687.5  |



| LTE Band 71 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 133222 | 133322 | 133372  |
|                                        | Frequency              | 673.0  | 680.5  | 688.0   |
| 15                                     | Channel                | 133197 | 133297 | 133397  |
|                                        | Frequency              | 670.5  | 680.5  | 690.5   |
| 10                                     | Channel                | 133172 | 133272 | 133422  |
|                                        | Frequency              | 668.0  | 678.0  | 693.0   |
| 5                                      | Channel                | 133147 | 133247 | 133447  |
|                                        | Frequency              | 665.5  | 675.5  | 695.5   |

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



|         |     |           |        |        |        |
|---------|-----|-----------|--------|--------|--------|
|         |     | Frequency | 2522.5 | 2542.5 | 2562.5 |
| 15 + 10 | PCC | Channel   | 20825  | 21051  | 21277  |
|         |     | Frequency | 2507.5 | 2530.1 | 2552.7 |
|         | SCC | Channel   | 20945  | 21171  | 21397  |
|         |     | Frequency | 2519.5 | 2542.1 | 2564.7 |

| LTE Band 38C_CA Channel and Frequency List |                        |           |        |        |         |
|--------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                   | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                    | PCC                    | Channel   | 37850  | 37901  | 37952   |
|                                            |                        | Frequency | 2580.0 | 2585.1 | 2590.2  |
|                                            | SCC                    | Channel   | 38048  | 38099  | 38150   |
|                                            |                        | Frequency | 2599.8 | 2604.9 | 2610.0  |
| 15+ 15                                     | PCC                    | Channel   | 37825  | 37925  | 38025   |
|                                            |                        | Frequency | 2577.5 | 2587.5 | 2597.5  |
|                                            | SCC                    | Channel   | 37975  | 38075  | 38175   |
|                                            |                        | Frequency | 2592.5 | 2602.5 | 2612.5  |

| LTE Band 41C_CA Channel and Frequency List |                        |           |        |        |         |
|--------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                   | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 20 + 20                                    | PCC                    | Channel   | 39750  | 40521  | 41292   |
|                                            |                        | Frequency | 2506.0 | 2583.1 | 2660.2  |
|                                            | SCC                    | Channel   | 39948  | 40719  | 41490   |
|                                            |                        | Frequency | 2525.8 | 2602.9 | 2680.0  |
| 20 + 15                                    | PCC                    | Channel   | 39750  | 40546  | 41341   |
|                                            |                        | Frequency | 2506.0 | 2585.6 | 2665.1  |
|                                            | SCC                    | Channel   | 39921  | 40717  | 41512   |
|                                            |                        | Frequency | 2523.1 | 2602.7 | 2682.2  |
| 15 + 20                                    | PCC                    | Channel   | 39728  | 40523  | 41319   |
|                                            |                        | Frequency | 2503.8 | 2593.3 | 2662.9  |
|                                            | SCC                    | Channel   | 39899  | 40694  | 41490   |
|                                            |                        | Frequency | 2520.9 | 2600.4 | 2680.0  |
| 20 + 10                                    | PCC                    | Channel   | 39750  | 40571  | 41391   |
|                                            |                        | Frequency | 2506.0 | 2588.1 | 2670.1  |
|                                            | SCC                    | Channel   | 39894  | 40715  | 41535   |
|                                            |                        | Frequency | 2520.4 | 2602.5 | 2684.5  |
| 10 + 20                                    | PCC                    | Channel   | 39705  | 40526  | 41346   |



|  |     |           |        |        |        |
|--|-----|-----------|--------|--------|--------|
|  | SCC | Frequency | 2501.5 | 2583.6 | 2665.6 |
|  |     | Channel   | 39849  | 40670  | 41490  |
|  |     | Frequency | 2515.9 | 2598.0 | 2680.0 |

| LTE Band 41C_CA Channel and Frequency List |     |           |        |        |        |
|--------------------------------------------|-----|-----------|--------|--------|--------|
| 20 + 5                                     | PCC | Channel   | 39750  | 40595  | 41440  |
|                                            |     | Frequency | 2506.0 | 2590.5 | 2675.0 |
|                                            | SCC | Channel   | 39867  | 40712  | 41557  |
|                                            |     | Frequency | 2517.7 | 2602.2 | 2686.7 |
| 5 + 20                                     | PCC | Channel   | 39683  | 40528  | 41373  |
|                                            |     | Frequency | 2499.3 | 2583.8 | 2668.3 |
|                                            | SCC | Channel   | 39800  | 40645  | 41490  |
|                                            |     | Frequency | 2511.0 | 2595.5 | 2680.0 |
| 15 + 15                                    | PCC | Channel   | 39725  | 40545  | 41365  |
|                                            |     | Frequency | 2503.5 | 2585.5 | 2667.5 |
|                                            | SCC | Channel   | 39875  | 40695  | 41515  |
|                                            |     | Frequency | 2518.5 | 2600.5 | 2682.5 |
| 10 + 15                                    | PCC | Channel   | 39703  | 40549  | 41395  |
|                                            |     | Frequency | 2501.3 | 2585.9 | 2670.5 |
|                                            | SCC | Channel   | 39823  | 40669  | 41515  |
|                                            |     | Frequency | 2513.3 | 2597.9 | 2682.5 |
| 15 + 10                                    | PCC | Channel   | 39725  | 40571  | 41417  |
|                                            |     | Frequency | 2503.5 | 2588.1 | 2672.7 |
|                                            | SCC | Channel   | 39845  | 40691  | 41537  |
|                                            |     | Frequency | 2515.5 | 2600.1 | 2684.7 |

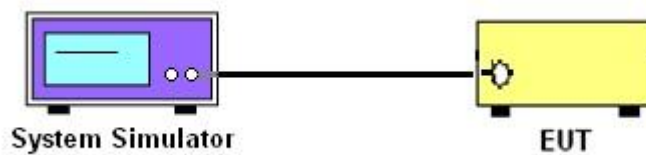
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

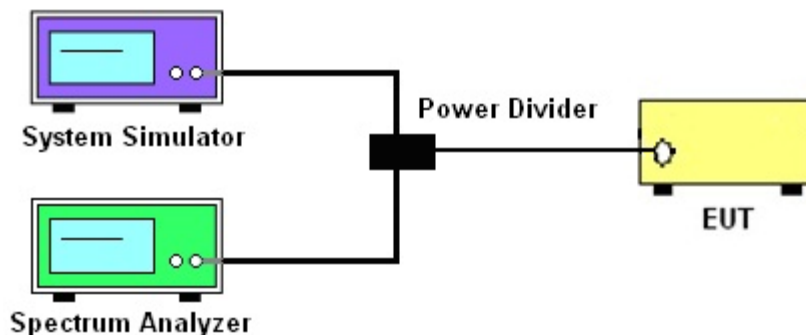
See list of measuring instruments of this test report.

#### 3.2 Test Setup

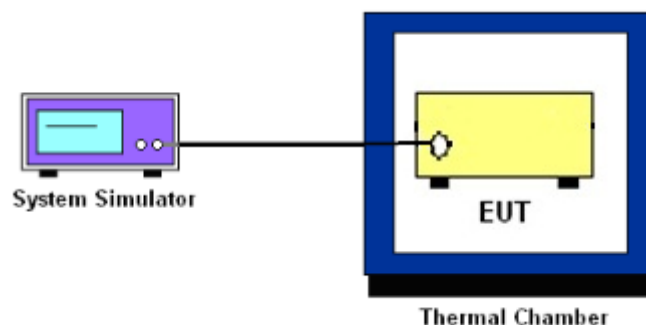
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### 3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

## 3.5 Peak-to-Average Ratio

### 3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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.

### 3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

## 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge Measurement

#### 27.53 (c)

For operations in the 776-788 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 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $65 + 10 \log_{10} p(\text{watts})$ , dB, for mobile and portable equipment.

#### 27.53 (g)

For operations in the 600MHz band and 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.

#### 27.53(m)(4)

For mobile digital stations, 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.

### 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

## 3.8 Conducted Spurious Emission

### 3.8.1 Description of Conducted Spurious Emission Measurement

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 7,38,41:

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 10<sup>th</sup> harmonic.

### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[43 + 10\log(P)]$  (dB)  
 $= -13$ dBm.
11. For Band 7, 38, 41  
The limit line is derived from  $55 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [55 + 10\log(P)]$  (dB)  
 $= [30 + 10\log(P)]$  (dBm) -  $[55 + 10\log(P)]$  (dB)  
 $= -25$ dBm.

### 3.9 Frequency Stability

#### 3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5\text{ppm}$ ) of the center frequency.

#### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
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  $-30^{\circ}\text{C}$  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  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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.

#### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

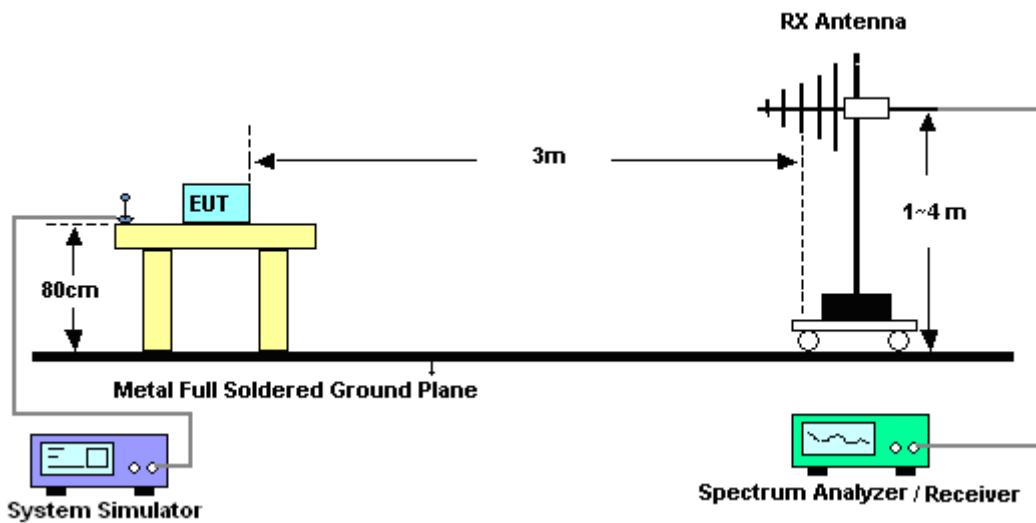
## 4 Radiated Test Items

### 4.1 Measuring Instruments

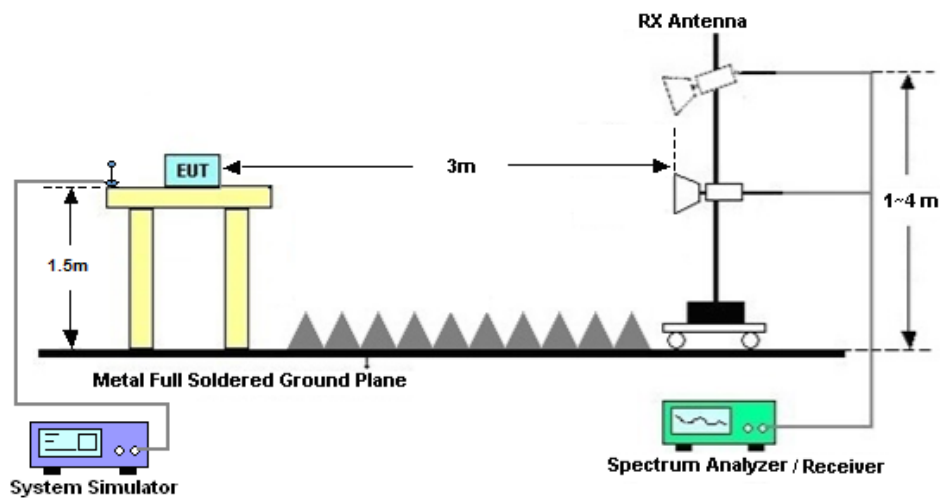
See list of measuring instruments of this test report.

### 4.2 Test Setup

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



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

For Band 7, 38, 41

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

For LTE Band 13

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

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

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11.  $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$ dB below the transmitter power P(Watts)  
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$   
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$   
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

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



## 5 List of Measuring Equipment

| Instrument                | Manufacturer              | Model No.     | Serial No.   | Characteristics | Calibration Date | Test Date                   | Due Date      | Remark                |
|---------------------------|---------------------------|---------------|--------------|-----------------|------------------|-----------------------------|---------------|-----------------------|
| Spectrum Analyzer         | R&S                       | FSV40         | 101078       | 10Hz~40GHz      | Apr. 17, 2020    | Dec. 18, 2020~Jan. 04, 2021 | Apr. 16, 2021 | Conducted (TH01-SZ)   |
| Thermal Chamber           | Ten Billion Hongzhangroup | LP-150U       | H2014081803  | -40~+150°C      | Jul. 22, 2020    | Dec. 18, 2020~Jan. 04, 2021 | Jul. 21, 2021 | Conducted (TH01-SZ)   |
| EMI Test Receiver&SA      | KEYSIGHT                  | N9038A        | MY54450083   | 20Hz~8.4GHz     | Apr. 17, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Apr. 16, 2021 | Radiation (03CH03-SZ) |
| EXA Spectrum Analyzer     | KEYSIGHT                  | N9010A        | MY55150246   | 10Hz~44GHz;     | Apr. 17, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Apr. 16, 2021 | Radiation (03CH03-SZ) |
| Bilog Antenna             | TeseQ                     | CBL6112D      | 35408        | 30MHz-2GHz      | Jun. 22, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Jun. 21, 2021 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK               | BBHA9120D     | 9120D-1355   | 1GHz~18GHz      | Apr. 30, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Apr. 29, 2021 | Radiation (03CH03-SZ) |
| Amplifier                 | Burgeon                   | BPA-530       | 102210       | 0.01Hz~3000MHz  | Oct. 17, 2019    | Jan. 11, 2021~Jan. 19, 2021 | Oct. 16, 2021 | Radiation (03CH03-SZ) |
| HF Amplifier              | MITEQ                     | TTA1840-35-HG | 1871923      | 18GHz~40GHz     | Jul. 21, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Jul. 20, 2021 | Radiation (03CH03-SZ) |
| SHF-EHF Horn              | com-power                 | AH-840        | 101071       | 18GHz-40GHz     | Apr. 23, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Apr. 22, 2021 | Radiation (03CH03-SZ) |
| Amplifier                 | Agilent Technologies      | 83017A        | MY39501302   | 500MHz~26.5GHz  | Dec. 25, 2020    | Jan. 11, 2021~Jan. 19, 2021 | Dec. 24, 2021 | Radiation (03CH03-SZ) |
| AC Power Source           | Chroma                    | 61601         | 616010001985 | N/A             | NCR              | Jan. 11, 2021~Jan. 19, 2021 | NCR           | Radiation (03CH03-SZ) |
| Turn Table                | EM                        | EM1000        | N/A          | 0~360 degree    | NCR              | Jan. 11, 2021~Jan. 19, 2021 | NCR           | Radiation (03CH03-SZ) |
| Antenna Mast              | EM                        | EM1000        | N/A          | 1 m~4 m         | NCR              | Jan. 11, 2021~Jan. 19, 2021 | NCR           | Radiation (03CH03-SZ) |

NCR: No Calibration Required

## 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage  $K=2$  to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.0dB |
|-------------------------------------------------------------------------|-------|

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.6dB |
|-------------------------------------------------------------------------|-------|

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

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 3.8dB |
|-------------------------------------------------------------------------|-------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

#### LTE Band 7

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 20850                 | 21100                    | 21350                  |
| Frequency (MHz) |            |         |           | 2510                  | 2535                     | 2560                   |
| 20              | QPSK       | 1       | 0         | 22.39                 | 22.43                    | 22.41                  |
| 20              | QPSK       | 1       | 49        | 22.50                 | 22.58                    | 22.56                  |
| 20              | QPSK       | 1       | 99        | 22.32                 | 22.56                    | 22.55                  |
| 20              | QPSK       | 50      | 0         | 21.58                 | 21.70                    | 21.69                  |
| 20              | QPSK       | 50      | 24        | 21.52                 | 21.69                    | 21.66                  |
| 20              | QPSK       | 50      | 50        | 21.57                 | 21.72                    | 21.67                  |
| 20              | QPSK       | 100     | 0         | 21.52                 | 21.63                    | 21.62                  |
| 20              | 16QAM      | 1       | 0         | 21.27                 | 21.37                    | 21.74                  |
| 20              | 16QAM      | 1       | 49        | 21.59                 | 21.95                    | 21.91                  |
| 20              | 16QAM      | 1       | 99        | 21.34                 | 21.83                    | 21.38                  |
| 20              | 16QAM      | 50      | 0         | 20.17                 | 20.41                    | 20.50                  |
| 20              | 16QAM      | 50      | 24        | 20.35                 | 20.43                    | 20.46                  |
| 20              | 16QAM      | 50      | 50        | 20.31                 | 20.45                    | 20.46                  |
| 20              | 16QAM      | 100     | 0         | 20.32                 | 20.37                    | 20.31                  |
| 20              | 64QAM      | 1       | 0         | 20.28                 | 20.04                    | 20.51                  |
| 20              | 64QAM      | 1       | 49        | 20.61                 | 20.46                    | 20.38                  |
| 20              | 64QAM      | 1       | 99        | 20.42                 | 20.45                    | 20.22                  |
| 20              | 64QAM      | 50      | 0         | 19.15                 | 19.33                    | 19.44                  |
| 20              | 64QAM      | 50      | 24        | 19.29                 | 19.40                    | 19.40                  |
| 20              | 64QAM      | 50      | 50        | 19.36                 | 19.38                    | 19.39                  |
| 20              | 64QAM      | 100     | 0         | 19.26                 | 19.33                    | 19.37                  |
| Channel         |            |         |           | 20825                 | 21100                    | 21375                  |
| Frequency (MHz) |            |         |           | 2507.5                | 2535                     | 2562.5                 |
| 15              | QPSK       | 1       | 0         | 22.16                 | 22.24                    | 22.19                  |
| 15              | QPSK       | 1       | 37        | 22.24                 | 22.35                    | 22.22                  |
| 15              | QPSK       | 1       | 74        | 22.24                 | 22.33                    | 22.35                  |
| 15              | QPSK       | 36      | 0         | 21.24                 | 21.34                    | 21.39                  |
| 15              | QPSK       | 36      | 20        | 21.28                 | 21.42                    | 21.40                  |
| 15              | QPSK       | 36      | 39        | 21.23                 | 21.39                    | 21.38                  |
| 15              | QPSK       | 75      | 0         | 21.22                 | 21.35                    | 21.44                  |
| 15              | 16QAM      | 1       | 0         | 21.50                 | 21.51                    | 21.33                  |
| 15              | 16QAM      | 1       | 37        | 21.84                 | 21.56                    | 21.91                  |
| 15              | 16QAM      | 1       | 74        | 21.46                 | 21.45                    | 21.59                  |
| 15              | 16QAM      | 36      | 0         | 20.24                 | 20.31                    | 20.42                  |
| 15              | 16QAM      | 36      | 20        | 20.24                 | 20.47                    | 20.33                  |



|                 |       |    |    |        |       |        |
|-----------------|-------|----|----|--------|-------|--------|
| 15              | 16QAM | 36 | 39 | 20.26  | 20.30 | 20.42  |
| 15              | 16QAM | 75 | 0  | 20.20  | 20.31 | 20.39  |
| 15              | 64QAM | 1  | 0  | 20.50  | 20.36 | 20.53  |
| 15              | 64QAM | 1  | 37 | 20.55  | 20.36 | 20.65  |
| 15              | 64QAM | 1  | 74 | 20.46  | 20.69 | 20.47  |
| 15              | 64QAM | 36 | 0  | 19.18  | 19.44 | 19.42  |
| 15              | 64QAM | 36 | 20 | 19.28  | 19.32 | 19.43  |
| 15              | 64QAM | 36 | 39 | 19.23  | 19.38 | 19.44  |
| 15              | 64QAM | 75 | 0  | 19.25  | 19.39 | 19.38  |
| Channel         |       |    |    | 20800  | 21100 | 21400  |
| Frequency (MHz) |       |    |    | 2505   | 2535  | 2565   |
| 10              | QPSK  | 1  | 0  | 22.22  | 22.37 | 22.37  |
| 10              | QPSK  | 1  | 25 | 22.25  | 22.43 | 22.51  |
| 10              | QPSK  | 1  | 49 | 22.22  | 22.27 | 22.35  |
| 10              | QPSK  | 25 | 0  | 21.19  | 21.38 | 21.45  |
| 10              | QPSK  | 25 | 12 | 21.21  | 21.36 | 21.39  |
| 10              | QPSK  | 25 | 25 | 21.34  | 21.42 | 21.42  |
| 10              | QPSK  | 50 | 0  | 21.21  | 21.40 | 21.37  |
| 10              | 16QAM | 1  | 0  | 21.85  | 21.80 | 21.37  |
| 10              | 16QAM | 1  | 25 | 21.47  | 21.84 | 21.88  |
| 10              | 16QAM | 1  | 49 | 21.85  | 21.97 | 21.84  |
| 10              | 16QAM | 25 | 0  | 20.29  | 20.40 | 20.42  |
| 10              | 16QAM | 25 | 12 | 20.18  | 20.33 | 20.54  |
| 10              | 16QAM | 25 | 25 | 20.27  | 20.42 | 20.36  |
| 10              | 16QAM | 50 | 0  | 20.25  | 20.36 | 20.43  |
| 10              | 64QAM | 1  | 0  | 20.31  | 20.34 | 20.49  |
| 10              | 64QAM | 1  | 25 | 20.52  | 20.46 | 20.61  |
| 10              | 64QAM | 1  | 49 | 20.53  | 20.37 | 20.61  |
| 10              | 64QAM | 25 | 0  | 19.30  | 19.41 | 19.34  |
| 10              | 64QAM | 25 | 12 | 19.26  | 19.38 | 19.45  |
| 10              | 64QAM | 25 | 25 | 19.22  | 19.41 | 19.35  |
| 10              | 64QAM | 50 | 0  | 19.29  | 19.36 | 19.38  |
| Channel         |       |    |    | 20775  | 21100 | 21425  |
| Frequency (MHz) |       |    |    | 2502.5 | 2535  | 2567.5 |
| 5               | QPSK  | 1  | 0  | 22.25  | 22.38 | 22.51  |
| 5               | QPSK  | 1  | 12 | 22.20  | 22.29 | 22.29  |
| 5               | QPSK  | 1  | 24 | 22.16  | 22.32 | 22.33  |
| 5               | QPSK  | 12 | 0  | 21.24  | 21.42 | 21.44  |
| 5               | QPSK  | 12 | 7  | 21.23  | 21.36 | 21.43  |
| 5               | QPSK  | 12 | 13 | 21.18  | 21.39 | 21.40  |
| 5               | QPSK  | 25 | 0  | 21.20  | 21.37 | 21.46  |
| 5               | 16QAM | 1  | 0  | 21.73  | 21.80 | 21.46  |
| 5               | 16QAM | 1  | 12 | 21.76  | 21.56 | 21.70  |
| 5               | 16QAM | 1  | 24 | 21.69  | 21.85 | 21.62  |
| 5               | 16QAM | 12 | 0  | 20.24  | 20.33 | 20.40  |
| 5               | 16QAM | 12 | 7  | 20.14  | 20.32 | 20.49  |
| 5               | 16QAM | 12 | 13 | 20.11  | 20.37 | 20.41  |



|   |       |    |    |       |       |       |
|---|-------|----|----|-------|-------|-------|
| 5 | 16QAM | 25 | 0  | 20.19 | 20.28 | 20.45 |
| 5 | 64QAM | 1  | 0  | 20.44 | 20.42 | 20.61 |
| 5 | 64QAM | 1  | 12 | 20.44 | 20.50 | 20.53 |
| 5 | 64QAM | 1  | 24 | 20.43 | 20.66 | 20.74 |
| 5 | 64QAM | 12 | 0  | 19.22 | 19.37 | 19.49 |
| 5 | 64QAM | 12 | 7  | 19.21 | 19.37 | 19.51 |
| 5 | 64QAM | 12 | 13 | 19.20 | 19.36 | 19.50 |
| 5 | 64QAM | 25 | 0  | 19.21 | 19.43 | 19.44 |

## LTE Band 12

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 23060                 | 23095                    | 23130                  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |
| 10              | QPSK       | 1       | 0         | 23.69                 | 23.80                    | 23.91                  |
| 10              | QPSK       | 1       | 25        | 23.83                 | 23.91                    | 23.89                  |
| 10              | QPSK       | 1       | 49        | 24.02                 | 23.97                    | 23.95                  |
| 10              | QPSK       | 25      | 0         | 22.92                 | 22.87                    | 22.89                  |
| 10              | QPSK       | 25      | 12        | 22.86                 | 22.85                    | 22.84                  |
| 10              | QPSK       | 25      | 25        | 22.87                 | 22.82                    | 22.85                  |
| 10              | QPSK       | 50      | 0         | 22.86                 | 22.81                    | 22.77                  |
| 10              | 16QAM      | 1       | 0         | 23.25                 | 23.12                    | 23.09                  |
| 10              | 16QAM      | 1       | 25        | 23.13                 | 22.92                    | 23.40                  |
| 10              | 16QAM      | 1       | 49        | 23.25                 | 23.34                    | 23.32                  |
| 10              | 16QAM      | 25      | 0         | 21.90                 | 21.85                    | 21.79                  |
| 10              | 16QAM      | 25      | 12        | 21.86                 | 21.86                    | 21.90                  |
| 10              | 16QAM      | 25      | 25        | 22.01                 | 21.91                    | 21.82                  |
| 10              | 16QAM      | 50      | 0         | 21.80                 | 21.82                    | 21.77                  |
| 10              | 64QAM      | 1       | 0         | 22.00                 | 22.04                    | 22.04                  |
| 10              | 64QAM      | 1       | 25        | 22.09                 | 22.10                    | 22.10                  |
| 10              | 64QAM      | 1       | 49        | 22.14                 | 22.16                    | 21.78                  |
| 10              | 64QAM      | 25      | 0         | 20.80                 | 20.79                    | 20.66                  |
| 10              | 64QAM      | 25      | 12        | 20.86                 | 20.81                    | 20.75                  |
| 10              | 64QAM      | 25      | 25        | 20.94                 | 20.78                    | 20.80                  |
| 10              | 64QAM      | 50      | 0         | 20.88                 | 20.87                    | 20.85                  |
| Channel         |            |         |           | 23035                 | 23095                    | 23155                  |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |
| 5               | QPSK       | 1       | 0         | 23.83                 | 23.95                    | 23.77                  |
| 5               | QPSK       | 1       | 12        | 23.92                 | 23.89                    | 23.84                  |
| 5               | QPSK       | 1       | 24        | 24.01                 | 23.89                    | 23.87                  |
| 5               | QPSK       | 12      | 0         | 22.87                 | 22.88                    | 22.87                  |
| 5               | QPSK       | 12      | 7         | 22.89                 | 22.93                    | 22.83                  |
| 5               | QPSK       | 12      | 13        | 22.82                 | 22.86                    | 22.79                  |
| 5               | QPSK       | 25      | 0         | 22.89                 | 22.85                    | 22.80                  |
| 5               | 16QAM      | 1       | 0         | 23.38                 | 23.34                    | 23.35                  |
| 5               | 16QAM      | 1       | 12        | 23.34                 | 23.38                    | 23.32                  |



|                 |       |    |    |       |       |       |
|-----------------|-------|----|----|-------|-------|-------|
| 5               | 16QAM | 1  | 24 | 23.49 | 23.33 | 23.22 |
| 5               | 16QAM | 12 | 0  | 21.81 | 21.82 | 21.78 |
| 5               | 16QAM | 12 | 7  | 21.80 | 21.75 | 21.79 |
| 5               | 16QAM | 12 | 13 | 21.80 | 21.81 | 21.75 |
| 5               | 16QAM | 25 | 0  | 21.90 | 21.94 | 21.84 |
| 5               | 64QAM | 1  | 0  | 21.81 | 21.93 | 21.82 |
| 5               | 64QAM | 1  | 12 | 22.11 | 21.66 | 21.55 |
| 5               | 64QAM | 1  | 24 | 22.18 | 21.66 | 22.07 |
| 5               | 64QAM | 12 | 0  | 20.94 | 20.87 | 20.79 |
| 5               | 64QAM | 12 | 7  | 20.88 | 20.91 | 20.87 |
| 5               | 64QAM | 12 | 13 | 20.82 | 20.94 | 20.77 |
| 5               | 64QAM | 25 | 0  | 20.87 | 20.87 | 20.71 |
| Channel         |       |    |    | 23025 | 23095 | 23165 |
| Frequency (MHz) |       |    |    | 700.5 | 707.5 | 714.5 |
| 3               | QPSK  | 1  | 0  | 23.88 | 23.86 | 23.79 |
| 3               | QPSK  | 1  | 8  | 23.85 | 23.90 | 23.80 |
| 3               | QPSK  | 1  | 14 | 23.76 | 23.91 | 23.74 |
| 3               | QPSK  | 8  | 0  | 22.80 | 22.85 | 22.79 |
| 3               | QPSK  | 8  | 4  | 22.77 | 22.92 | 22.73 |
| 3               | QPSK  | 8  | 7  | 22.82 | 22.89 | 22.85 |
| 3               | QPSK  | 15 | 0  | 22.78 | 22.82 | 22.80 |
| 3               | 16QAM | 1  | 0  | 23.08 | 23.12 | 22.86 |
| 3               | 16QAM | 1  | 8  | 23.02 | 23.41 | 22.81 |
| 3               | 16QAM | 1  | 14 | 23.14 | 23.47 | 22.76 |
| 3               | 16QAM | 8  | 0  | 21.81 | 21.86 | 21.89 |
| 3               | 16QAM | 8  | 4  | 21.89 | 21.87 | 21.90 |
| 3               | 16QAM | 8  | 7  | 21.88 | 21.86 | 21.83 |
| 3               | 16QAM | 15 | 0  | 21.81 | 21.91 | 21.77 |
| 3               | 64QAM | 1  | 0  | 22.09 | 22.16 | 21.93 |
| 3               | 64QAM | 1  | 8  | 22.01 | 22.10 | 22.15 |
| 3               | 64QAM | 1  | 14 | 22.07 | 21.87 | 22.11 |
| 3               | 64QAM | 8  | 0  | 20.77 | 20.82 | 20.82 |
| 3               | 64QAM | 8  | 4  | 20.83 | 20.82 | 20.75 |
| 3               | 64QAM | 8  | 7  | 20.76 | 20.84 | 20.70 |
| 3               | 64QAM | 15 | 0  | 20.85 | 20.92 | 20.86 |
| Channel         |       |    |    | 23017 | 23095 | 23173 |
| Frequency (MHz) |       |    |    | 699.7 | 707.5 | 715.3 |
| 1.4             | QPSK  | 1  | 0  | 23.57 | 23.66 | 23.85 |
| 1.4             | QPSK  | 1  | 3  | 23.52 | 23.75 | 23.89 |
| 1.4             | QPSK  | 1  | 5  | 23.55 | 23.73 | 23.82 |
| 1.4             | QPSK  | 3  | 0  | 23.70 | 23.67 | 23.69 |
| 1.4             | QPSK  | 3  | 1  | 23.66 | 23.77 | 23.70 |
| 1.4             | QPSK  | 3  | 3  | 23.64 | 23.77 | 23.75 |
| 1.4             | QPSK  | 6  | 0  | 22.69 | 22.74 | 22.66 |
| 1.4             | 16QAM | 1  | 0  | 23.10 | 22.97 | 23.00 |
| 1.4             | 16QAM | 1  | 3  | 22.92 | 22.95 | 22.71 |
| 1.4             | 16QAM | 1  | 5  | 23.00 | 23.26 | 22.65 |



|     |       |   |   |       |       |       |
|-----|-------|---|---|-------|-------|-------|
| 1.4 | 16QAM | 3 | 0 | 22.69 | 22.80 | 22.54 |
| 1.4 | 16QAM | 3 | 1 | 22.71 | 22.82 | 22.51 |
| 1.4 | 16QAM | 3 | 3 | 22.62 | 22.80 | 22.49 |
| 1.4 | 16QAM | 6 | 0 | 21.71 | 21.90 | 21.66 |
| 1.4 | 64QAM | 1 | 0 | 22.00 | 21.76 | 21.88 |
| 1.4 | 64QAM | 1 | 3 | 21.91 | 21.71 | 21.84 |
| 1.4 | 64QAM | 1 | 5 | 21.90 | 22.00 | 21.79 |
| 1.4 | 64QAM | 3 | 0 | 21.70 | 21.84 | 21.66 |
| 1.4 | 64QAM | 3 | 1 | 21.75 | 21.89 | 21.91 |
| 1.4 | 64QAM | 3 | 3 | 21.70 | 21.99 | 21.90 |
| 1.4 | 64QAM | 6 | 0 | 20.67 | 20.69 | 20.57 |

## LTE Band 13

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 23230                 |                          |                        |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |
| 10              | QPSK       | 1       | 0         |                       | 23.43                    |                        |
| 10              | QPSK       | 1       | 25        |                       | 23.67                    |                        |
| 10              | QPSK       | 1       | 49        |                       | 23.50                    |                        |
| 10              | QPSK       | 25      | 0         |                       | 22.40                    |                        |
| 10              | QPSK       | 25      | 12        |                       | 22.51                    |                        |
| 10              | QPSK       | 25      | 25        |                       | 22.52                    |                        |
| 10              | QPSK       | 50      | 0         |                       | 22.47                    |                        |
| 10              | 16QAM      | 1       | 0         |                       | 22.58                    |                        |
| 10              | 16QAM      | 1       | 25        |                       | 22.77                    |                        |
| 10              | 16QAM      | 1       | 49        |                       | 22.62                    |                        |
| 10              | 16QAM      | 25      | 0         |                       | 21.37                    |                        |
| 10              | 16QAM      | 25      | 12        |                       | 21.53                    |                        |
| 10              | 16QAM      | 25      | 25        |                       | 21.52                    |                        |
| 10              | 16QAM      | 50      | 0         |                       | 21.57                    |                        |
| 10              | 64QAM      | 1       | 0         |                       | 21.67                    |                        |
| 10              | 64QAM      | 1       | 25        |                       | 21.70                    |                        |
| 10              | 64QAM      | 1       | 49        |                       | 21.66                    |                        |
| 10              | 64QAM      | 25      | 0         |                       | 20.40                    |                        |
| 10              | 64QAM      | 25      | 12        |                       | 20.50                    |                        |
| 10              | 64QAM      | 25      | 25        |                       | 20.47                    |                        |
| 10              | 64QAM      | 50      | 0         |                       | 20.57                    |                        |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |
| 5               | QPSK       | 1       | 0         | 23.46                 | 23.45                    | 23.49                  |
| 5               | QPSK       | 1       | 12        | 23.61                 | 23.55                    | 23.57                  |
| 5               | QPSK       | 1       | 24        | 23.63                 | 23.56                    | 23.48                  |
| 5               | QPSK       | 12      | 0         | 22.42                 | 22.57                    | 22.44                  |
| 5               | QPSK       | 12      | 7         | 22.54                 | 22.55                    | 22.49                  |
| 5               | QPSK       | 12      | 13        | 22.51                 | 22.52                    | 22.48                  |



|   |       |    |    |       |       |       |
|---|-------|----|----|-------|-------|-------|
| 5 | QPSK  | 25 | 0  | 22.56 | 22.56 | 22.50 |
| 5 | 16QAM | 1  | 0  | 22.89 | 23.01 | 23.11 |
| 5 | 16QAM | 1  | 12 | 22.68 | 23.10 | 23.02 |
| 5 | 16QAM | 1  | 24 | 22.75 | 22.70 | 23.09 |
| 5 | 16QAM | 12 | 0  | 21.38 | 21.55 | 21.46 |
| 5 | 16QAM | 12 | 7  | 21.54 | 21.50 | 21.45 |
| 5 | 16QAM | 12 | 13 | 21.52 | 21.47 | 21.45 |
| 5 | 16QAM | 25 | 0  | 21.73 | 21.57 | 21.43 |
| 5 | 64QAM | 1  | 0  | 21.75 | 21.78 | 21.46 |
| 5 | 64QAM | 1  | 12 | 21.90 | 21.81 | 21.50 |
| 5 | 64QAM | 1  | 24 | 21.69 | 21.87 | 21.53 |
| 5 | 64QAM | 12 | 0  | 20.37 | 20.58 | 20.36 |
| 5 | 64QAM | 12 | 7  | 20.49 | 20.62 | 20.54 |
| 5 | 64QAM | 12 | 13 | 20.46 | 20.52 | 20.52 |
| 5 | 64QAM | 25 | 0  | 20.64 | 20.48 | 20.54 |

## LTE Band 17

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 23780                 | 23790                    | 23800                  |
| Frequency (MHz) |            |         |           | 709                   | 710                      | 711                    |
| 10              | QPSK       | 1       | 0         | 23.77                 | 23.85                    | 23.83                  |
| 10              | QPSK       | 1       | 25        | 23.82                 | 23.86                    | 23.84                  |
| 10              | QPSK       | 1       | 49        | 23.78                 | 23.77                    | 23.84                  |
| 10              | QPSK       | 25      | 0         | 22.81                 | 22.83                    | 22.80                  |
| 10              | QPSK       | 25      | 12        | 22.74                 | 22.82                    | 22.73                  |
| 10              | QPSK       | 25      | 25        | 22.73                 | 22.76                    | 22.79                  |
| 10              | QPSK       | 50      | 0         | 22.76                 | 22.84                    | 22.79                  |
| 10              | 16QAM      | 1       | 0         | 23.03                 | 23.46                    | 23.45                  |
| 10              | 16QAM      | 1       | 25        | 23.31                 | 23.31                    | 23.41                  |
| 10              | 16QAM      | 1       | 49        | 23.03                 | 23.35                    | 23.28                  |
| 10              | 16QAM      | 25      | 0         | 21.83                 | 21.77                    | 21.73                  |
| 10              | 16QAM      | 25      | 12        | 21.82                 | 21.80                    | 21.84                  |
| 10              | 16QAM      | 25      | 25        | 21.72                 | 21.67                    | 21.75                  |
| 10              | 16QAM      | 50      | 0         | 21.79                 | 21.83                    | 21.75                  |
| 10              | 64QAM      | 1       | 0         | 21.81                 | 22.17                    | 21.51                  |
| 10              | 64QAM      | 1       | 25        | 21.58                 | 21.93                    | 22.05                  |
| 10              | 64QAM      | 1       | 49        | 21.85                 | 21.98                    | 21.62                  |
| 10              | 64QAM      | 25      | 0         | 20.71                 | 20.67                    | 20.74                  |
| 10              | 64QAM      | 25      | 12        | 20.79                 | 20.81                    | 20.77                  |
| 10              | 64QAM      | 25      | 25        | 20.81                 | 20.69                    | 20.75                  |
| 10              | 64QAM      | 50      | 0         | 20.72                 | 20.69                    | 20.74                  |
| Channel         |            |         |           | 23755                 | 23790                    | 23825                  |
| Frequency (MHz) |            |         |           | 706.5                 | 710                      | 713.5                  |
| 5               | QPSK       | 1       | 0         | 23.84                 | 23.73                    | 23.73                  |
| 5               | QPSK       | 1       | 12        | 23.84                 | 23.74                    | 23.68                  |



|   |       |    |    |       |       |       |
|---|-------|----|----|-------|-------|-------|
| 5 | QPSK  | 1  | 24 | 23.76 | 23.76 | 23.80 |
| 5 | QPSK  | 12 | 0  | 22.86 | 22.80 | 22.81 |
| 5 | QPSK  | 12 | 7  | 22.85 | 22.79 | 22.75 |
| 5 | QPSK  | 12 | 13 | 22.84 | 22.77 | 22.72 |
| 5 | QPSK  | 25 | 0  | 22.79 | 22.79 | 22.75 |
| 5 | 16QAM | 1  | 0  | 23.12 | 22.85 | 22.77 |
| 5 | 16QAM | 1  | 12 | 23.04 | 22.93 | 23.39 |
| 5 | 16QAM | 1  | 24 | 23.38 | 23.34 | 22.92 |
| 5 | 16QAM | 12 | 0  | 21.84 | 21.77 | 21.81 |
| 5 | 16QAM | 12 | 7  | 21.76 | 21.73 | 21.67 |
| 5 | 16QAM | 12 | 13 | 21.74 | 21.70 | 21.72 |
| 5 | 16QAM | 25 | 0  | 21.80 | 21.78 | 21.78 |
| 5 | 64QAM | 1  | 0  | 22.19 | 22.18 | 21.96 |
| 5 | 64QAM | 1  | 12 | 21.98 | 22.03 | 21.94 |
| 5 | 64QAM | 1  | 24 | 22.03 | 22.06 | 22.03 |
| 5 | 64QAM | 12 | 0  | 20.82 | 20.68 | 20.87 |
| 5 | 64QAM | 12 | 7  | 20.85 | 20.82 | 20.74 |
| 5 | 64QAM | 12 | 13 | 20.77 | 20.70 | 20.68 |
| 5 | 64QAM | 25 | 0  | 20.78 | 20.75 | 20.76 |

**LTE Band 71**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 133222                | 133322                   | 133372                 |
| Frequency (MHz) |            |         |           | 673                   | 683                      | 688                    |
| 20              | QPSK       | 1       | 0         | 23.67                 | 23.62                    | 23.71                  |
| 20              | QPSK       | 1       | 49        | 23.78                 | 23.81                    | 23.73                  |
| 20              | QPSK       | 1       | 99        | 23.54                 | 23.57                    | 23.51                  |
| 20              | QPSK       | 50      | 0         | 23.79                 | 23.80                    | 23.76                  |
| 20              | QPSK       | 50      | 24        | 23.74                 | 23.76                    | 23.70                  |
| 20              | QPSK       | 50      | 50        | 23.60                 | 23.76                    | 23.64                  |
| 20              | QPSK       | 100     | 0         | 23.61                 | 23.73                    | 23.72                  |
| 20              | 16QAM      | 1       | 0         | 23.52                 | 23.57                    | 23.65                  |
| 20              | 16QAM      | 1       | 49        | 23.80                 | 23.57                    | 23.64                  |
| 20              | 16QAM      | 1       | 99        | 23.52                 | 23.28                    | 23.40                  |
| 20              | 16QAM      | 50      | 0         | 23.34                 | 23.41                    | 23.29                  |
| 20              | 16QAM      | 50      | 24        | 23.34                 | 23.33                    | 23.27                  |
| 20              | 16QAM      | 50      | 50        | 23.26                 | 23.36                    | 23.20                  |
| 20              | 16QAM      | 100     | 0         | 23.22                 | 23.33                    | 23.25                  |
| 20              | 64QAM      | 1       | 0         | 23.55                 | 23.44                    | 23.44                  |
| 20              | 64QAM      | 1       | 49        | 23.50                 | 23.48                    | 23.49                  |
| 20              | 64QAM      | 1       | 99        | 23.26                 | 23.30                    | 23.27                  |
| 20              | 64QAM      | 50      | 0         | 23.27                 | 23.35                    | 23.29                  |
| 20              | 64QAM      | 50      | 24        | 23.33                 | 23.34                    | 23.32                  |
| 20              | 64QAM      | 50      | 50        | 23.25                 | 23.30                    | 23.30                  |
| 20              | 64QAM      | 100     | 0         | 23.28                 | 23.32                    | 23.29                  |



| Channel         |       |    |    | 133197 | 133297 | 133397 |
|-----------------|-------|----|----|--------|--------|--------|
| Frequency (MHz) |       |    |    | 670.5  | 680.5  | 690.5  |
| 15              | QPSK  | 1  | 0  | 23.31  | 23.36  | 23.22  |
| 15              | QPSK  | 1  | 37 | 23.31  | 23.30  | 23.26  |
| 15              | QPSK  | 1  | 74 | 23.26  | 23.17  | 23.16  |
| 15              | QPSK  | 36 | 0  | 23.31  | 23.33  | 23.19  |
| 15              | QPSK  | 36 | 20 | 23.39  | 23.30  | 23.29  |
| 15              | QPSK  | 36 | 39 | 23.33  | 23.25  | 23.24  |
| 15              | QPSK  | 75 | 0  | 23.34  | 23.30  | 23.31  |
| 15              | 16QAM | 1  | 0  | 23.64  | 23.68  | 23.72  |
| 15              | 16QAM | 1  | 37 | 23.64  | 23.60  | 23.59  |
| 15              | 16QAM | 1  | 74 | 23.47  | 23.47  | 23.55  |
| 15              | 16QAM | 36 | 0  | 23.34  | 23.32  | 23.37  |
| 15              | 16QAM | 36 | 20 | 23.33  | 23.33  | 23.33  |
| 15              | 16QAM | 36 | 39 | 23.37  | 23.26  | 23.27  |
| 15              | 16QAM | 75 | 0  | 23.36  | 23.31  | 23.37  |
| 15              | 64QAM | 1  | 0  | 23.52  | 23.50  | 23.45  |
| 15              | 64QAM | 1  | 37 | 23.47  | 23.46  | 23.50  |
| 15              | 64QAM | 1  | 74 | 23.49  | 23.28  | 23.39  |
| 15              | 64QAM | 36 | 0  | 23.31  | 23.36  | 23.25  |
| 15              | 64QAM | 36 | 20 | 23.40  | 23.37  | 23.28  |
| 15              | 64QAM | 36 | 39 | 23.36  | 23.31  | 23.29  |
| 15              | 64QAM | 75 | 0  | 23.37  | 23.28  | 23.30  |
| Channel         |       |    |    | 133172 | 133272 | 133422 |
| Frequency (MHz) |       |    |    | 668    | 678    | 693    |
| 10              | QPSK  | 1  | 0  | 23.29  | 23.39  | 23.28  |
| 10              | QPSK  | 1  | 25 | 23.38  | 23.36  | 23.30  |
| 10              | QPSK  | 1  | 49 | 23.32  | 23.24  | 23.24  |
| 10              | QPSK  | 25 | 0  | 23.32  | 23.46  | 23.35  |
| 10              | QPSK  | 25 | 12 | 23.32  | 23.34  | 23.30  |
| 10              | QPSK  | 25 | 25 | 23.37  | 23.31  | 23.31  |
| 10              | QPSK  | 50 | 0  | 23.40  | 23.34  | 23.32  |
| 10              | 16QAM | 1  | 0  | 23.65  | 23.66  | 23.61  |
| 10              | 16QAM | 1  | 25 | 23.75  | 23.62  | 23.51  |
| 10              | 16QAM | 1  | 49 | 23.63  | 23.60  | 23.57  |
| 10              | 16QAM | 25 | 0  | 23.36  | 23.47  | 23.34  |
| 10              | 16QAM | 25 | 12 | 23.36  | 23.37  | 23.28  |
| 10              | 16QAM | 25 | 25 | 23.39  | 23.33  | 23.29  |
| 10              | 16QAM | 50 | 0  | 23.36  | 23.37  | 23.28  |
| 10              | 64QAM | 1  | 0  | 23.49  | 23.47  | 23.41  |
| 10              | 64QAM | 1  | 25 | 23.54  | 23.60  | 23.43  |
| 10              | 64QAM | 1  | 49 | 23.51  | 23.42  | 23.42  |
| 10              | 64QAM | 25 | 0  | 23.40  | 23.42  | 23.32  |
| 10              | 64QAM | 25 | 12 | 23.37  | 23.36  | 23.33  |
| 10              | 64QAM | 25 | 25 | 23.42  | 23.27  | 23.29  |
| 10              | 64QAM | 50 | 0  | 23.42  | 23.39  | 23.27  |
| Channel         |       |    |    | 133147 | 133247 | 133447 |



| Frequency (MHz) |       |    |    | 665.5 | 675.5 | 695.5 |
|-----------------|-------|----|----|-------|-------|-------|
| 5               | QPSK  | 1  | 0  | 23.33 | 23.40 | 23.27 |
| 5               | QPSK  | 1  | 12 | 23.37 | 23.39 | 23.28 |
| 5               | QPSK  | 1  | 24 | 23.38 | 23.39 | 23.26 |
| 5               | QPSK  | 12 | 0  | 23.34 | 23.42 | 23.33 |
| 5               | QPSK  | 12 | 7  | 23.35 | 23.37 | 23.27 |
| 5               | QPSK  | 12 | 13 | 23.36 | 23.33 | 23.30 |
| 5               | QPSK  | 25 | 0  | 23.30 | 23.42 | 23.30 |
| 5               | 16QAM | 1  | 0  | 23.58 | 23.72 | 23.65 |
| 5               | 16QAM | 1  | 12 | 23.62 | 23.69 | 23.66 |
| 5               | 16QAM | 1  | 24 | 23.72 | 23.71 | 23.50 |
| 5               | 16QAM | 12 | 0  | 23.35 | 23.42 | 23.33 |
| 5               | 16QAM | 12 | 7  | 23.34 | 23.39 | 23.34 |
| 5               | 16QAM | 12 | 13 | 23.41 | 23.39 | 23.31 |
| 5               | 16QAM | 25 | 0  | 23.40 | 23.41 | 23.35 |
| 5               | 64QAM | 1  | 0  | 23.47 | 23.58 | 23.42 |
| 5               | 64QAM | 1  | 12 | 23.48 | 23.50 | 23.46 |
| 5               | 64QAM | 1  | 24 | 23.48 | 23.55 | 23.49 |
| 5               | 64QAM | 12 | 0  | 23.34 | 23.36 | 23.28 |
| 5               | 64QAM | 12 | 7  | 23.36 | 23.37 | 23.32 |
| 5               | 64QAM | 12 | 13 | 23.35 | 23.33 | 23.32 |
| 5               | 64QAM | 25 | 0  | 23.34 | 23.39 | 23.35 |

## LTE Band 38

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low<br>Ch. / Freq. | Power Middle<br>Ch. / Freq. | Power High<br>Ch. / Freq. |
|-----------------|------------|---------|-----------|--------------------------|-----------------------------|---------------------------|
| Channel         |            |         |           | 37850                    | 38000                       | 38150                     |
| Frequency (MHz) |            |         |           | 2580                     | 2595                        | 2610                      |
| 20              | QPSK       | 1       | 0         | 22.13                    | 22.00                       | 22.07                     |
| 20              | QPSK       | 1       | 49        | 22.39                    | 22.15                       | 22.24                     |
| 20              | QPSK       | 1       | 99        | 22.22                    | 22.11                       | 22.20                     |
| 20              | QPSK       | 50      | 0         | 21.27                    | 21.15                       | 21.30                     |
| 20              | QPSK       | 50      | 24        | 21.36                    | 21.19                       | 21.32                     |
| 20              | QPSK       | 50      | 50        | 21.33                    | 21.17                       | 21.30                     |
| 20              | QPSK       | 100     | 0         | 21.29                    | 21.10                       | 21.20                     |
| 20              | 16QAM      | 1       | 0         | 21.20                    | 21.07                       | 21.10                     |
| 20              | 16QAM      | 1       | 49        | 21.35                    | 21.23                       | 21.29                     |
| 20              | 16QAM      | 1       | 99        | 21.32                    | 21.15                       | 21.29                     |
| 20              | 16QAM      | 50      | 0         | 20.29                    | 20.19                       | 20.22                     |
| 20              | 16QAM      | 50      | 24        | 20.28                    | 20.18                       | 20.34                     |
| 20              | 16QAM      | 50      | 50        | 20.33                    | 20.11                       | 20.27                     |
| 20              | 16QAM      | 100     | 0         | 20.29                    | 20.19                       | 20.26                     |
| 20              | 64QAM      | 1       | 0         | 20.08                    | 20.03                       | 20.05                     |
| 20              | 64QAM      | 1       | 49        | 20.21                    | 20.07                       | 20.05                     |
| 20              | 64QAM      | 1       | 99        | 20.18                    | 20.00                       | 20.07                     |
| 20              | 64QAM      | 50      | 0         | 19.36                    | 19.30                       | 19.36                     |



|                 |       |     |    |        |       |        |
|-----------------|-------|-----|----|--------|-------|--------|
| 20              | 64QAM | 50  | 24 | 19.47  | 19.28 | 19.48  |
| 20              | 64QAM | 50  | 50 | 19.47  | 19.24 | 19.41  |
| 20              | 64QAM | 100 | 0  | 19.43  | 19.24 | 19.31  |
| Channel         |       |     |    | 37825  | 38000 | 38175  |
| Frequency (MHz) |       |     |    | 2577.5 | 2595  | 2612.5 |
| 15              | QPSK  | 1   | 0  | 22.17  | 22.09 | 22.08  |
| 15              | QPSK  | 1   | 37 | 22.22  | 22.13 | 22.18  |
| 15              | QPSK  | 1   | 74 | 22.13  | 22.13 | 22.24  |
| 15              | QPSK  | 36  | 0  | 21.28  | 21.09 | 21.28  |
| 15              | QPSK  | 36  | 20 | 21.34  | 21.09 | 21.28  |
| 15              | QPSK  | 36  | 39 | 21.28  | 21.08 | 21.24  |
| 15              | QPSK  | 75  | 0  | 21.33  | 21.15 | 21.26  |
| 15              | 16QAM | 1   | 0  | 21.20  | 21.17 | 21.08  |
| 15              | 16QAM | 1   | 37 | 21.32  | 21.21 | 21.18  |
| 15              | 16QAM | 1   | 74 | 21.32  | 21.23 | 21.32  |
| 15              | 16QAM | 36  | 0  | 20.27  | 20.13 | 20.18  |
| 15              | 16QAM | 36  | 20 | 20.24  | 20.14 | 20.22  |
| 15              | 16QAM | 36  | 39 | 20.28  | 20.10 | 20.25  |
| 15              | 16QAM | 75  | 0  | 20.31  | 20.16 | 20.26  |
| 15              | 64QAM | 1   | 0  | 20.18  | 20.05 | 20.14  |
| 15              | 64QAM | 1   | 37 | 20.37  | 20.09 | 20.21  |
| 15              | 64QAM | 1   | 74 | 20.31  | 20.11 | 20.18  |
| 15              | 64QAM | 36  | 0  | 19.45  | 19.29 | 19.31  |
| 15              | 64QAM | 36  | 20 | 19.42  | 19.29 | 19.38  |
| 15              | 64QAM | 36  | 39 | 19.49  | 19.29 | 19.35  |
| 15              | 64QAM | 75  | 0  | 19.49  | 19.30 | 19.33  |
| Channel         |       |     |    | 37800  | 38000 | 38200  |
| Frequency (MHz) |       |     |    | 2575   | 2595  | 2615   |
| 10              | QPSK  | 1   | 0  | 22.31  | 22.10 | 22.09  |
| 10              | QPSK  | 1   | 25 | 22.33  | 22.14 | 22.10  |
| 10              | QPSK  | 1   | 49 | 22.35  | 22.13 | 22.31  |
| 10              | QPSK  | 25  | 0  | 21.29  | 21.16 | 21.30  |
| 10              | QPSK  | 25  | 12 | 21.38  | 21.17 | 21.27  |
| 10              | QPSK  | 25  | 25 | 21.32  | 21.16 | 21.32  |
| 10              | QPSK  | 50  | 0  | 21.36  | 21.20 | 21.28  |
| 10              | 16QAM | 1   | 0  | 21.25  | 21.15 | 21.24  |
| 10              | 16QAM | 1   | 25 | 21.38  | 21.19 | 21.30  |
| 10              | 16QAM | 1   | 49 | 21.37  | 21.20 | 21.32  |
| 10              | 16QAM | 25  | 0  | 20.35  | 20.16 | 20.29  |
| 10              | 16QAM | 25  | 12 | 20.38  | 20.17 | 20.32  |
| 10              | 16QAM | 25  | 25 | 20.37  | 20.15 | 20.40  |
| 10              | 16QAM | 50  | 0  | 20.33  | 20.25 | 20.34  |
| 10              | 64QAM | 1   | 0  | 20.27  | 20.03 | 20.20  |
| 10              | 64QAM | 1   | 25 | 20.22  | 20.05 | 20.23  |
| 10              | 64QAM | 1   | 49 | 20.33  | 20.10 | 20.25  |
| 10              | 64QAM | 25  | 0  | 19.48  | 19.34 | 19.45  |
| 10              | 64QAM | 25  | 12 | 19.50  | 19.31 | 19.47  |
| 10              | 64QAM | 25  | 25 | 19.54  | 19.35 | 19.50  |



|                 |       |    |    |        |       |        |
|-----------------|-------|----|----|--------|-------|--------|
| 10              | 64QAM | 50 | 0  | 19.46  | 19.28 | 19.49  |
| Channel         |       |    |    | 37775  | 38000 | 38225  |
| Frequency (MHz) |       |    |    | 2572.5 | 2595  | 2617.5 |
| 5               | QPSK  | 1  | 0  | 22.30  | 22.13 | 22.11  |
| 5               | QPSK  | 1  | 12 | 22.32  | 22.12 | 22.28  |
| 5               | QPSK  | 1  | 24 | 22.31  | 22.16 | 22.27  |
| 5               | QPSK  | 12 | 0  | 21.32  | 21.15 | 21.36  |
| 5               | QPSK  | 12 | 7  | 21.34  | 21.09 | 21.33  |
| 5               | QPSK  | 12 | 13 | 21.31  | 21.15 | 21.35  |
| 5               | QPSK  | 25 | 0  | 21.37  | 21.15 | 21.31  |
| 5               | 16QAM | 1  | 0  | 21.39  | 21.20 | 21.31  |
| 5               | 16QAM | 1  | 12 | 21.41  | 21.24 | 21.31  |
| 5               | 16QAM | 1  | 24 | 21.41  | 21.21 | 21.31  |
| 5               | 16QAM | 12 | 0  | 20.32  | 20.20 | 20.27  |
| 5               | 16QAM | 12 | 7  | 20.33  | 20.06 | 20.28  |
| 5               | 16QAM | 12 | 13 | 20.26  | 20.05 | 20.32  |
| 5               | 16QAM | 25 | 0  | 20.41  | 20.13 | 20.35  |
| 5               | 64QAM | 1  | 0  | 20.33  | 20.14 | 20.28  |
| 5               | 64QAM | 1  | 12 | 20.29  | 20.09 | 20.27  |
| 5               | 64QAM | 1  | 24 | 20.35  | 20.10 | 20.30  |
| 5               | 64QAM | 12 | 0  | 19.51  | 19.28 | 19.46  |
| 5               | 64QAM | 12 | 7  | 19.47  | 19.23 | 19.43  |
| 5               | 64QAM | 12 | 13 | 19.45  | 19.22 | 19.48  |
| 5               | 64QAM | 25 | 0  | 19.52  | 19.38 | 19.56  |

**LTE Band 41**

| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|
| Channel         |            |         |           | 39750                 | 40620                    | 41490                  |
| Frequency (MHz) |            |         |           | 2506                  | 2593                     | 2680                   |
| 20              | QPSK       | 1       | 0         | 25.92                 | 26.18                    | 26.31                  |
| 20              | QPSK       | 1       | 49        | 26.12                 | 26.39                    | 26.40                  |
| 20              | QPSK       | 1       | 99        | 26.08                 | 26.28                    | 26.25                  |
| 20              | QPSK       | 50      | 0         | 25.18                 | 25.44                    | 25.46                  |
| 20              | QPSK       | 50      | 24        | 25.19                 | 25.42                    | 25.47                  |
| 20              | QPSK       | 50      | 50        | 25.17                 | 25.46                    | 25.44                  |
| 20              | QPSK       | 100     | 0         | 25.16                 | 25.42                    | 25.43                  |
| 20              | 16QAM      | 1       | 0         | 25.14                 | 25.50                    | 25.51                  |
| 20              | 16QAM      | 1       | 49        | 25.31                 | 25.63                    | 25.62                  |
| 20              | 16QAM      | 1       | 99        | 25.26                 | 25.57                    | 25.52                  |
| 20              | 16QAM      | 50      | 0         | 24.17                 | 24.42                    | 24.47                  |
| 20              | 16QAM      | 50      | 24        | 24.22                 | 24.45                    | 24.52                  |
| 20              | 16QAM      | 50      | 50        | 24.19                 | 24.44                    | 24.46                  |
| 20              | 16QAM      | 100     | 0         | 24.19                 | 24.42                    | 24.45                  |
| 20              | 64QAM      | 1       | 0         | 24.07                 | 24.35                    | 24.44                  |
| 20              | 64QAM      | 1       | 49        | 24.21                 | 24.51                    | 24.51                  |



|                 |       |     |    |        |       |        |
|-----------------|-------|-----|----|--------|-------|--------|
| 20              | 64QAM | 1   | 99 | 24.14  | 24.42 | 24.38  |
| 20              | 64QAM | 50  | 0  | 23.20  | 23.40 | 23.47  |
| 20              | 64QAM | 50  | 24 | 23.22  | 23.43 | 23.48  |
| 20              | 64QAM | 50  | 50 | 23.16  | 23.39 | 23.43  |
| 20              | 64QAM | 100 | 0  | 23.18  | 23.42 | 23.45  |
| Channel         |       |     |    | 39725  | 40620 | 41515  |
| Frequency (MHz) |       |     |    | 2503.5 | 2593  | 2682.5 |
| 15              | QPSK  | 1   | 0  | 26.06  | 26.35 | 26.36  |
| 15              | QPSK  | 1   | 37 | 26.07  | 26.37 | 26.35  |
| 15              | QPSK  | 1   | 74 | 26.13  | 26.38 | 26.37  |
| 15              | QPSK  | 36  | 0  | 25.11  | 25.38 | 25.43  |
| 15              | QPSK  | 36  | 20 | 25.14  | 25.41 | 25.43  |
| 15              | QPSK  | 36  | 39 | 25.16  | 25.38 | 25.42  |
| 15              | QPSK  | 75  | 0  | 25.18  | 25.37 | 25.46  |
| 15              | 16QAM | 1   | 0  | 25.16  | 25.55 | 25.48  |
| 15              | 16QAM | 1   | 37 | 25.26  | 25.63 | 25.61  |
| 15              | 16QAM | 1   | 74 | 25.24  | 25.59 | 25.53  |
| 15              | 16QAM | 36  | 0  | 24.11  | 24.34 | 24.45  |
| 15              | 16QAM | 36  | 20 | 24.14  | 24.35 | 24.46  |
| 15              | 16QAM | 36  | 39 | 24.13  | 24.38 | 24.42  |
| 15              | 16QAM | 75  | 0  | 24.16  | 24.39 | 24.46  |
| 15              | 64QAM | 1   | 0  | 24.12  | 24.40 | 24.39  |
| 15              | 64QAM | 1   | 37 | 24.18  | 24.52 | 24.50  |
| 15              | 64QAM | 1   | 74 | 24.11  | 24.47 | 24.42  |
| 15              | 64QAM | 36  | 0  | 23.15  | 23.40 | 23.48  |
| 15              | 64QAM | 36  | 20 | 23.16  | 23.41 | 23.50  |
| 15              | 64QAM | 36  | 39 | 23.18  | 23.39 | 23.46  |
| 15              | 64QAM | 75  | 0  | 23.15  | 23.39 | 23.46  |
| Channel         |       |     |    | 39700  | 40620 | 41540  |
| Frequency (MHz) |       |     |    | 2501   | 2593  | 2685   |
| 10              | QPSK  | 1   | 0  | 26.04  | 26.34 | 26.37  |
| 10              | QPSK  | 1   | 25 | 26.04  | 26.35 | 26.33  |
| 10              | QPSK  | 1   | 49 | 26.10  | 26.36 | 26.37  |
| 10              | QPSK  | 25  | 0  | 25.19  | 25.38 | 25.47  |
| 10              | QPSK  | 25  | 12 | 25.16  | 25.41 | 25.48  |
| 10              | QPSK  | 25  | 25 | 25.19  | 25.39 | 25.52  |
| 10              | QPSK  | 50  | 0  | 25.22  | 25.43 | 25.48  |
| 10              | 16QAM | 1   | 0  | 25.27  | 25.64 | 25.59  |
| 10              | 16QAM | 1   | 25 | 25.30  | 25.68 | 25.62  |
| 10              | 16QAM | 1   | 49 | 25.29  | 25.63 | 25.63  |
| 10              | 16QAM | 25  | 0  | 24.20  | 24.46 | 24.52  |
| 10              | 16QAM | 25  | 12 | 24.21  | 24.48 | 24.54  |
| 10              | 16QAM | 25  | 25 | 24.23  | 24.45 | 24.54  |
| 10              | 16QAM | 50  | 0  | 24.23  | 24.44 | 24.54  |
| 10              | 64QAM | 1   | 0  | 24.14  | 24.48 | 24.51  |
| 10              | 64QAM | 1   | 25 | 24.21  | 24.52 | 24.51  |
| 10              | 64QAM | 1   | 49 | 24.14  | 24.48 | 24.54  |
| 10              | 64QAM | 25  | 0  | 23.27  | 23.47 | 23.57  |



|                 |       |    |    |        |       |        |
|-----------------|-------|----|----|--------|-------|--------|
| 10              | 64QAM | 25 | 12 | 23.26  | 23.44 | 23.56  |
| 10              | 64QAM | 25 | 25 | 23.26  | 23.45 | 23.60  |
| 10              | 64QAM | 50 | 0  | 23.19  | 23.42 | 23.55  |
| Channel         |       |    |    | 39675  | 40620 | 41565  |
| Frequency (MHz) |       |    |    | 2498.5 | 2593  | 2687.5 |
| 5               | QPSK  | 1  | 0  | 26.05  | 26.34 | 26.38  |
| 5               | QPSK  | 1  | 12 | 26.02  | 26.28 | 26.36  |
| 5               | QPSK  | 1  | 24 | 26.10  | 26.37 | 26.37  |
| 5               | QPSK  | 12 | 0  | 25.18  | 25.41 | 25.51  |
| 5               | QPSK  | 12 | 7  | 25.18  | 25.40 | 25.51  |
| 5               | QPSK  | 12 | 13 | 25.16  | 25.37 | 25.46  |
| 5               | QPSK  | 25 | 0  | 25.21  | 25.38 | 25.52  |
| 5               | 16QAM | 1  | 0  | 25.27  | 25.62 | 25.64  |
| 5               | 16QAM | 1  | 12 | 25.23  | 25.65 | 25.68  |
| 5               | 16QAM | 1  | 24 | 25.27  | 25.63 | 25.61  |
| 5               | 16QAM | 12 | 0  | 24.18  | 24.41 | 24.54  |
| 5               | 16QAM | 12 | 7  | 24.19  | 24.42 | 24.52  |
| 5               | 16QAM | 12 | 13 | 24.16  | 24.39 | 24.50  |
| 5               | 16QAM | 25 | 0  | 24.24  | 24.46 | 24.58  |
| 5               | 64QAM | 1  | 0  | 24.23  | 24.53 | 24.53  |
| 5               | 64QAM | 1  | 12 | 24.17  | 24.53 | 24.57  |
| 5               | 64QAM | 1  | 24 | 24.18  | 24.54 | 24.54  |
| 5               | 64QAM | 12 | 0  | 23.17  | 23.43 | 23.56  |
| 5               | 64QAM | 12 | 7  | 23.19  | 23.43 | 23.55  |
| 5               | 64QAM | 12 | 13 | 23.16  | 23.40 | 23.51  |
| 5               | 64QAM | 25 | 0  | 23.26  | 23.43 | 23.55  |

**CA Power**

| CA_7C                                 |             |            |         |           |         |           |               |                       |                      |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20850                                 | 21048       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.61                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.6                 |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.64                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.71                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.27                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.28                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.68                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.89                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 19                   |
| 21001                                 | 21199       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.86                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.56                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.59                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.87                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.08                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.12                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.87                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.96                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.93                |
| 21152                                 | 21350       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.66                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.49                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.51                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.63                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.15                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.04                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.64                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.85                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.86                |



| CA_7C                                |             |            |         |           |         |           |               |                       |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 20MHz+15MHz (100RB+75RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20850                                | 21021       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.79                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.82                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.74                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.82                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.26                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.17                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.82                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.03                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.86                |
| 21026                                | 21197       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.77                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.7                 |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.61                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.84                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.22                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.06                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.87                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.11                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.79                |
| 21201                                | 21372       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.64                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.68                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.5                 |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.63                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.08                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.14                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.64                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.08                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.71                |
| Combination 15MHz+20MHz (75RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20828                                | 20999       | QPSK       | 75      | 0         | 100     | 0         | 175           | ≤2                    | 19.62                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.8                 |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.71                |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | ≤3                    | 18.69                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.24                |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 21.03                |
|                                      |             | 64QAM      | 75      | 0         | 100     | 0         | 175           | ≤3                    | 18.68                |



|                                      |             |            |         |           |         |           |               |                       |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.99                |
|                                      |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.77                |
| 21003                                | 21174       | QPSK       | 75      | 0         | 100     | 0         | 175           | ≤2                    | 19.58                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.52                |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.48                |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | ≤3                    | 18.79                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.17                |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.92                |
|                                      |             | 64QAM      | 75      | 0         | 100     | 0         | 175           | ≤3                    | 18.87                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.01                |
|                                      |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.76                |
|                                      |             |            |         | QPSK      | 75      | 0         | 100           | 0                     | 175                  |
| QPSK                                 | 1           |            |         | 0         | 1       | 99        | 2             | ≤8.5                  | 12.54                |
| QPSK                                 | 1           |            |         | 74        | 1       | 0         | 2             | ≤0                    | 21.38                |
| 16QAM                                | 75          |            |         | 0         | 100     | 0         | 175           | ≤3                    | 18.5                 |
| 16QAM                                | 1           |            |         | 0         | 1       | 99        | 2             | ≤8.5                  | 12.96                |
| 16QAM                                | 1           |            |         | 74        | 1       | 0         | 2             | ≤1                    | 21.06                |
| 64QAM                                | 75          |            |         | 0         | 100     | 0         | 175           | ≤3                    | 18.48                |
| 64QAM                                | 1           |            |         | 0         | 1       | 99        | 2             | ≤8.5                  | 13.02                |
| 64QAM                                | 1           |            |         | 74        | 1       | 0         | 2             | ≤3                    | 18.68                |
| Combination 20MHz+10MHz (100RB+50RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20850                                | 20994       | QPSK       | 100     | 0         | 50      | 0         | 150           | ≤2                    | 19.76                |
|                                      |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.63                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.74                |
|                                      |             | 16QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.66                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 13.21                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.12                |
|                                      |             | 64QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.69                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.85                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.71                |
|                                      |             | QPSK       | 100     | 0         | 50      | 0         | 150           | ≤2                    | 19.67                |
|                                      |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.5                 |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.53                |
|                                      |             | 16QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.78                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 13.09                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.03                |
|                                      |             | 64QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.67                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.97                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.6                 |
| 21251                                | 21395       | QPSK       | 100     | 0         | 50      | 0         | 150           | ≤2                    | 19.46                |



|                                      |             |            |         |           |         |           |               |                       |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|                                      |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.52                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.49                |
|                                      |             | 16QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.49                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 13.04                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 21.11                |
|                                      |             | 64QAM      | 100     | 0         | 50      | 0         | 150           | ≤3                    | 18.46                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.99                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.67                |
| Combination 10MHz+20MHz (50RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20805                                | 20949       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.73                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.75                |
|                                      |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.62                |
|                                      |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.67                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.11                |
|                                      |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 21.17                |
|                                      |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.72                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.92                |
|                                      |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.78                |
| 21006                                | 21150       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.67                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.54                |
|                                      |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.42                |
|                                      |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.72                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.07                |
|                                      |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 21.04                |
|                                      |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.83                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13.08                |
|                                      |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.68                |
| 21206                                | 21350       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.47                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.58                |
|                                      |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.44                |
|                                      |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.53                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.94                |
|                                      |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 21.05                |
|                                      |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.55                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.94                |
|                                      |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.53                |
| Combination 15MHz+15MHz (75RB+75RB)  |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |



|                                     |             |            |         |           |         |           |               |                       |                      |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| 20825                               | 20975       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.74                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.75                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.58                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.7                 |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.17                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 21.11                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.65                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.84                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.67                |
| 21025                               | 21175       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.76                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.52                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.53                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.71                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.08                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 21.04                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.85                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13                   |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.69                |
| 21225                               | 21375       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.59                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.66                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.31                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.46                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13                   |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 21                   |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.54                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.06                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.63                |
| Combination 15MHz+10MHz (75RB+50RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 20825                               | 20945       | QPSK       | 75      | 0         | 50      | 0         | 125           | ≤2                    | 19.73                |
|                                     |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.76                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.64                |
|                                     |             | 16QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.76                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 13.19                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 21.01                |
|                                     |             | 64QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.67                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.96                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.85                |
| 21051                               | 21171       | QPSK       | 75      | 0         | 50      | 0         | 125           | ≤2                    | 19.66                |
|                                     |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.68                |



|       |       |       |    |    |    |    |     |            |       |
|-------|-------|-------|----|----|----|----|-----|------------|-------|
|       |       | QPSK  | 1  | 74 | 1  | 0  | 2   | $\leq 0$   | 21.42 |
|       |       | 16QAM | 75 | 0  | 50 | 0  | 125 | $\leq 3$   | 18.66 |
|       |       | 16QAM | 1  | 0  | 1  | 49 | 2   | $\leq 8.5$ | 13.18 |
|       |       | 16QAM | 1  | 74 | 1  | 0  | 2   | $\leq 1$   | 21.06 |
|       |       | 64QAM | 75 | 0  | 50 | 0  | 125 | $\leq 3$   | 18.83 |
|       |       | 64QAM | 1  | 0  | 1  | 49 | 2   | $\leq 8.5$ | 13.04 |
|       |       | 64QAM | 1  | 74 | 1  | 0  | 2   | $\leq 3$   | 18.68 |
| 21277 | 21397 | QPSK  | 75 | 0  | 50 | 0  | 125 | $\leq 2$   | 19.47 |
|       |       | QPSK  | 1  | 0  | 1  | 49 | 2   | $\leq 8.5$ | 12.5  |
|       |       | QPSK  | 1  | 74 | 1  | 0  | 2   | $\leq 0$   | 21.37 |
|       |       | 16QAM | 75 | 0  | 50 | 0  | 125 | $\leq 3$   | 18.6  |
|       |       | 16QAM | 1  | 0  | 1  | 49 | 2   | $\leq 8.5$ | 13.06 |
|       |       | 16QAM | 1  | 74 | 1  | 0  | 2   | $\leq 1$   | 21.07 |
|       |       | 64QAM | 75 | 0  | 50 | 0  | 125 | $\leq 3$   | 18.47 |
|       |       | 64QAM | 1  | 0  | 1  | 49 | 2   | $\leq 8.5$ | 13.05 |
|       |       | 64QAM | 1  | 74 | 1  | 0  | 2   | $\leq 3$   | 18.53 |



| CA_38C                                |             |            |         |           |         |           |               |                       |                      |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 37850                                 | 38048       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.43                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.45                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.42                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.48                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.43                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.45                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.45                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.46                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.38                |
| 37901                                 | 38099       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.48                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.4                 |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.49                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.52                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.39                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.49                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.46                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.43                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.42                |
| 37952                                 | 38150       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.41                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.38                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.45                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.54                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.39                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.45                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.47                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.44                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.42                |



| CA_38C                              |             |            |         |           |         |           |               |                       |                      |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 15MHz+15MHz (75RB+75RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 37825                               | 37975       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.55                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.81                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.66                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.61                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.91                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.74                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.61                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.84                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.61                |
| 37925                               | 38075       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.56                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.82                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.7                 |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.62                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.93                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.79                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.63                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.87                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.65                |
| 38025                               | 38175       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.47                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.83                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.68                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.71                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.92                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.76                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 18.79                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.87                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.59                |



| CA_41C                                |             |            |         |           |         |           |               |                       |                      |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39750                                 | 39948       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.85                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.7                 |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.82                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 19.07                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.71                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.81                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.99                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.73                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.91                |
| 40521                                 | 40719       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.65                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.49                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.59                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.86                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.47                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.64                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 18.82                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.49                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.76                |
| 41292                                 | 41490       | QPSK       | 100     | 0         | 100     | 0         | 200           | ≤2                    | 19.98                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.72                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.73                |
|                                       |             | 16QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 19.07                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.76                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.74                |
|                                       |             | 64QAM      | 100     | 0         | 100     | 0         | 200           | ≤3                    | 19.02                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.71                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.84                |



| CA_41C                               |             |            |         |           |         |           |               |                       |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| Combination 20MHz+15MHz (100RB+75RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39750                                | 39921       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.89                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.92                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.89                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 19.12                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13                   |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.92                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 19.11                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.96                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 19.01                |
| 40546                                | 40717       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.67                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.78                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.61                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.89                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.82                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.68                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 18.85                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.81                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.81                |
| 41341                                | 41512       | QPSK       | 100     | 0         | 75      | 0         | 175           | ≤2                    | 19.88                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.97                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.9                 |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 19.06                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.01                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.93                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | ≤3                    | 19.05                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 13.02                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 19.02                |
| Combination 15MHz+20MHz (75RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39728                                | 39899       | QPSK       | 75      | 0         | 100     | 0         | 175           | ≤2                    | 19.84                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.78                |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.76                |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | ≤3                    | 18.96                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.89                |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.88                |



|         |           | 64QAM                                | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.95         |
|---------|-----------|--------------------------------------|-------------|------------|---------|-----------|-----|------|---------------|
|         |           | 64QAM                                | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.89         |
|         |           | 64QAM                                | 1           | 74         | 1       | 0         | 2   | ≤3   | 18.86         |
| 40523   | 40694     | QPSK                                 | 75          | 0          | 100     | 0         | 175 | ≤2   | 19.61         |
|         |           | QPSK                                 | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.77         |
|         |           | QPSK                                 | 1           | 74         | 1       | 0         | 2   | ≤0   | 21.56         |
|         |           | 16QAM                                | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.77         |
|         |           | 16QAM                                | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.68         |
|         |           | 16QAM                                | 1           | 74         | 1       | 0         | 2   | ≤1   | 20.5          |
|         |           | 64QAM                                | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.66         |
|         |           | 64QAM                                | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.68         |
|         |           | 64QAM                                | 1           | 74         | 1       | 0         | 2   | ≤3   | 18.63         |
|         |           | QPSK                                 | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.89         |
|         |           | QPSK                                 | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.93         |
|         |           | QPSK                                 | 1           | 74         | 1       | 0         | 2   | ≤1   | 20.79         |
| 41319   | 41490     | 16QAM                                | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.87         |
|         |           | 16QAM                                | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.86         |
|         |           | 16QAM                                | 1           | 74         | 1       | 0         | 2   | ≤3   | 18.83         |
|         |           | 64QAM                                | 75          | 0          | 100     | 0         | 175 | ≤3   | 18.87         |
|         |           | 64QAM                                | 1           | 0          | 1       | 99        | 2   | ≤8.5 | 12.86         |
|         |           | 64QAM                                | 1           | 74         | 1       | 0         | 2   | ≤3   | 18.83         |
|         |           | Combination 20MHz+10MHz (100RB+50RB) |             |            |         |           |     |      |               |
|         |           | PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC |      | Total RB Size |
| RB Size | RB offset |                                      |             |            | RB Size | RB offset |     |      |               |
| 39750   | 39894     | QPSK                                 | 100         | 0          | 50      | 0         | 150 | ≤2   | 19.71         |
|         |           | QPSK                                 | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.87         |
|         |           | QPSK                                 | 1           | 99         | 1       | 0         | 2   | ≤0   | 21.76         |
|         |           | 16QAM                                | 100         | 0          | 50      | 0         | 150 | ≤3   | 19            |
|         |           | 16QAM                                | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.94         |
|         |           | 16QAM                                | 1           | 99         | 1       | 0         | 2   | ≤1   | 20.86         |
|         |           | 64QAM                                | 100         | 0          | 50      | 0         | 150 | ≤3   | 19            |
|         |           | 64QAM                                | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.77         |
|         |           | 64QAM                                | 1           | 99         | 1       | 0         | 2   | ≤3   | 18.91         |
|         |           | QPSK                                 | 100         | 0          | 50      | 0         | 150 | ≤3   | 18.74         |
|         |           | QPSK                                 | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.62         |
|         |           | QPSK                                 | 1           | 99         | 1       | 0         | 2   | ≤1   | 20.63         |
| 40571   | 40715     | 16QAM                                | 100         | 0          | 50      | 0         | 150 | ≤3   | 18.8          |
|         |           | 16QAM                                | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.8          |
|         |           | 16QAM                                | 1           | 99         | 1       | 0         | 2   | ≤3   | 18.64         |
|         |           | 64QAM                                | 100         | 0          | 50      | 0         | 150 | ≤3   | 18.8          |
|         |           | 64QAM                                | 1           | 0          | 1       | 49        | 2   | ≤8.5 | 12.8          |
|         |           | 64QAM                                | 1           | 99         | 1       | 0         | 2   | ≤3   | 18.64         |



|       |       |       |     |    |    |    |     |      |       |
|-------|-------|-------|-----|----|----|----|-----|------|-------|
| 41391 | 41535 | QPSK  | 100 | 0  | 50 | 0  | 150 | ≤3   | 18.9  |
|       |       | QPSK  | 1   | 0  | 1  | 49 | 2   | ≤8.5 | 12.84 |
|       |       | QPSK  | 1   | 99 | 1  | 0  | 2   | ≤1   | 20.8  |
|       |       | 16QAM | 100 | 0  | 50 | 0  | 150 | ≤3   | 18.88 |
|       |       | 16QAM | 1   | 0  | 1  | 49 | 2   | ≤8.5 | 12.92 |
|       |       | 16QAM | 1   | 99 | 1  | 0  | 2   | ≤3   | 18.92 |
|       |       | 64QAM | 100 | 0  | 50 | 0  | 150 | ≤3   | 18.88 |
|       |       | 64QAM | 1   | 0  | 1  | 49 | 2   | ≤8.5 | 12.92 |
|       |       | 64QAM | 1   | 99 | 1  | 0  | 2   | ≤3   | 18.92 |

**Combination 10MHz+20MHz (50RB+100RB)**

| PCC Channel | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|-------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|             |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39705       | 39849       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.79                |
|             |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.83                |
|             |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.84                |
|             |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.96                |
|             |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.94                |
|             |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 20.77                |
|             |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 19.05                |
|             |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.95                |
|             |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.81                |
| 40526       | 40670       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.52                |
|             |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.64                |
|             |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.49                |
|             |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.84                |
|             |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.8                 |
|             |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 20.54                |
|             |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.79                |
|             |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.69                |
|             |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.75                |
| 41346       | 41490       | QPSK       | 50      | 0         | 100     | 0         | 150           | ≤2                    | 19.88                |
|             |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.92                |
|             |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤0                    | 21.87                |
|             |             | 16QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 18.87                |
|             |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 13                   |
|             |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤1                    | 20.78                |
|             |             | 64QAM      | 50      | 0         | 100     | 0         | 150           | ≤3                    | 19.04                |
|             |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.88                |
|             |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤3                    | 18.99                |

**Combination 20MHz+5MHz (100RB+25RB)**

| PCC Channel | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|-------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|             |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |



|                                     |             |            |         |           |         |           |               |                       |                      |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
| 39750                               | 39867       | QPSK       | 100     | 0         | 25      | 0         | 125           | ≤2                    | 19.85                |
|                                     |             | QPSK       | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.8                 |
|                                     |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.76                |
|                                     |             | 16QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 19.08                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.96                |
|                                     |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.73                |
|                                     |             | 64QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 19.03                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.83                |
|                                     |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.97                |
| 40595                               | 40712       | QPSK       | 100     | 0         | 25      | 0         | 125           | ≤2                    | 19.64                |
|                                     |             | QPSK       | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.64                |
|                                     |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.6                 |
|                                     |             | 16QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 18.89                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.76                |
|                                     |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.51                |
|                                     |             | 64QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 18.8                 |
|                                     |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.65                |
|                                     |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.75                |
| 41440                               | 41557       | QPSK       | 100     | 0         | 25      | 0         | 125           | ≤2                    | 19.85                |
|                                     |             | QPSK       | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.97                |
|                                     |             | QPSK       | 1       | 99        | 1       | 0         | 2             | ≤0                    | 21.75                |
|                                     |             | 16QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 18.99                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.93                |
|                                     |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | ≤1                    | 20.79                |
|                                     |             | 64QAM      | 100     | 0         | 25      | 0         | 125           | ≤3                    | 18.87                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | ≤8.5                  | 12.9                 |
|                                     |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | ≤3                    | 18.84                |
| Combination 5MHz+20MHz (25RB+100RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39683                               | 39800       | QPSK       | 25      | 0         | 100     | 0         | 125           | ≤2                    | 19.76                |
|                                     |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.9                 |
|                                     |             | QPSK       | 1       | 24        | 1       | 0         | 2             | ≤0                    | 21.73                |
|                                     |             | 16QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 19.02                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.87                |
|                                     |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | ≤1                    | 20.87                |
|                                     |             | 64QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 18.99                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.94                |
|                                     |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | ≤3                    | 18.86                |
| 40528                               | 40645       | QPSK       | 25      | 0         | 100     | 0         | 125           | ≤2                    | 19.67                |
|                                     |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.73                |
|                                     |             | QPSK       | 1       | 24        | 1       | 0         | 2             | ≤0                    | 21.5                 |



|                                     |             |            |         |           |         |           |               |                       |                      |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|                                     |             | 16QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 18.77                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.62                |
|                                     |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | ≤1                    | 20.53                |
|                                     |             | 64QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 18.76                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.7                 |
|                                     |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | ≤3                    | 18.79                |
| 41373                               | 41490       | QPSK       | 25      | 0         | 100     | 0         | 125           | ≤2                    | 19.79                |
|                                     |             | QPSK       | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.91                |
|                                     |             | QPSK       | 1       | 24        | 1       | 0         | 2             | ≤0                    | 21.83                |
|                                     |             | 16QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 18.98                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.94                |
|                                     |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | ≤1                    | 20.78                |
|                                     |             | 64QAM      | 25      | 0         | 100     | 0         | 125           | ≤3                    | 18.96                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | ≤8.5                  | 12.83                |
|                                     |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | ≤3                    | 19.02                |
| Combination 15MHz+10MHz (75RB+50RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39725                               | 39845       | QPSK       | 75      | 0         | 50      | 0         | 125           | ≤2                    | 19.69                |
|                                     |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.83                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.83                |
|                                     |             | 16QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.94                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.85                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.78                |
|                                     |             | 64QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 19.02                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.79                |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.9                 |
| 40571                               | 40691       | QPSK       | 75      | 0         | 50      | 0         | 125           | ≤2                    | 19.61                |
|                                     |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.61                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.5                 |
|                                     |             | 16QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.87                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.7                 |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.5                 |
|                                     |             | 64QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.83                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.8                 |
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.65                |
| 41417                               | 41537       | QPSK       | 75      | 0         | 50      | 0         | 125           | ≤2                    | 19.79                |
|                                     |             | QPSK       | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.92                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.71                |
|                                     |             | 16QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.96                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.82                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.82                |
|                                     |             | 64QAM      | 75      | 0         | 50      | 0         | 125           | ≤3                    | 18.91                |



|                                     |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | ≤8.5                  | 12.86                |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|-----------------------|----------------------|
|                                     |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | ≤3                    | 18.9                 |
| Combination 10MHz+15MHz (50RB+75RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39703                               | 39823       | QPSK       | 50      | 0         | 75      | 0         | 125           | ≤2                    | 19.7                 |
|                                     |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.83                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤0                    | 21.8                 |
|                                     |             | 16QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 19.02                |
|                                     |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.83                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤1                    | 20.85                |
|                                     |             | 64QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 19.02                |
|                                     |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.91                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤3                    | 18.88                |
| 40549                               | 40669       | QPSK       | 50      | 0         | 75      | 0         | 125           | ≤2                    | 19.58                |
|                                     |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.61                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤0                    | 21.6                 |
|                                     |             | 16QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 18.82                |
|                                     |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.7                 |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤1                    | 20.49                |
|                                     |             | 64QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 18.73                |
|                                     |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.74                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤3                    | 18.69                |
| 41395                               | 41515       | QPSK       | 50      | 0         | 75      | 0         | 125           | ≤2                    | 19.84                |
|                                     |             | QPSK       | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.96                |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤0                    | 21.82                |
|                                     |             | 16QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 19                   |
|                                     |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.92                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤1                    | 20.93                |
|                                     |             | 64QAM      | 50      | 0         | 75      | 0         | 125           | ≤3                    | 19.03                |
|                                     |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | ≤8.5                  | 12.86                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤3                    | 18.88                |
| Combination 15MHz+15MHz (75RB+75RB) |             |            |         |           |         |           |               |                       |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Target MPR Level (dB) | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                       |                      |
| 39725                               | 39875       | QPSK       | 75      | 0         | 75      | 0         | 150           | ≤2                    | 19.7                 |
|                                     |             | QPSK       | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.79                |
|                                     |             | QPSK       | 1       | 74        | 1       | 0         | 2             | ≤0                    | 21.69                |
|                                     |             | 16QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 19.04                |
|                                     |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.98                |
|                                     |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | ≤1                    | 20.78                |
|                                     |             | 64QAM      | 75      | 0         | 75      | 0         | 150           | ≤3                    | 19.01                |
|                                     |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | ≤8.5                  | 12.83                |



|       |       |       |    |    |    |    |     |      |       |
|-------|-------|-------|----|----|----|----|-----|------|-------|
| 40545 | 40695 | 64QAM | 1  | 74 | 1  | 0  | 2   | ≤3   | 18.96 |
|       |       | QPSK  | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.84 |
|       |       | QPSK  | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.77 |
|       |       | QPSK  | 1  | 74 | 1  | 0  | 2   | ≤1   | 20.49 |
|       |       | 16QAM | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.84 |
|       |       | 16QAM | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.72 |
|       |       | 16QAM | 1  | 74 | 1  | 0  | 2   | ≤3   | 18.68 |
|       |       | 64QAM | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.84 |
|       |       | 64QAM | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.72 |
|       |       | 64QAM | 1  | 74 | 1  | 0  | 2   | ≤3   | 18.68 |
| 41365 | 41515 | QPSK  | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.86 |
|       |       | QPSK  | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.87 |
|       |       | QPSK  | 1  | 74 | 1  | 0  | 2   | ≤1   | 20.89 |
|       |       | 16QAM | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.85 |
|       |       | 16QAM | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.96 |
|       |       | 16QAM | 1  | 74 | 1  | 0  | 2   | ≤3   | 18.9  |
|       |       | 64QAM | 75 | 0  | 75 | 0  | 150 | ≤3   | 18.85 |
|       |       | 64QAM | 1  | 0  | 1  | 74 | 2   | ≤8.5 | 12.96 |
|       |       | 64QAM | 1  | 74 | 1  | 0  | 2   | ≤3   | 18.9  |

**ERP/EIRP**

| LTE Band 7 (GT - LC = 4.00 dB) QPSK |        |        |        |
|-------------------------------------|--------|--------|--------|
| Bandwidth                           | 5M     |        |        |
| Channel                             | 20775  | 21100  | 21425  |
|                                     | (Low)  | (Mid)  | (High) |
| Frequency                           | 2502.5 | 2535   | 2567.5 |
| (MHz)                               |        |        |        |
| Conducted Power (dBm)               | 22.25  | 22.38  | 22.51  |
| Conducted Power (Watts)             | 0.1679 | 0.1730 | 0.1782 |
| EIRP(dBm)                           | 26.25  | 26.38  | 26.51  |
| EIRP(Watts)                         | 0.4217 | 0.4345 | 0.4477 |

| LTE Band 7 (GT - LC = 4.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                           | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                             | 20800  | 21100  | 21400  | 20825  | 21100  | 21375  | 20850  | 21100  | 21350  |
|                                     | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                           | 2505   | 2535   | 2565   | 2507.5 | 2535   | 2562.5 | 2510   | 2535   | 2560   |
| (MHz)                               |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)               | 22.25  | 22.43  | 22.51  | 22.24  | 22.35  | 22.22  | 22.50  | 22.58  | 22.56  |
| Conducted Power (Watts)             | 0.1679 | 0.1750 | 0.1782 | 0.1675 | 0.1718 | 0.1667 | 0.1778 | 0.1811 | 0.1803 |
| EIRP(dBm)                           | 26.25  | 26.43  | 26.51  | 26.24  | 26.35  | 26.22  | 26.50  | 26.58  | 26.56  |
| EIRP(Watts)                         | 0.4217 | 0.4395 | 0.4477 | 0.4207 | 0.4315 | 0.4188 | 0.4467 | 0.4550 | 0.4529 |



| LTE Band 7 (GT - LC = 4.00 dB) 16QAM |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 5M     |        |        |
| Channel                              | 20775  | 21100  | 21425  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 2502.5 | 2535   | 2567.5 |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 21.69  | 21.85  | 21.62  |
| Conducted Power (Watts)              | 0.1476 | 0.1531 | 0.1452 |
| EIRP(dBm)                            | 25.69  | 25.85  | 25.62  |
| EIRP(Watts)                          | 0.3707 | 0.3846 | 0.3648 |

| LTE Band 7 (GT - LC = 4.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                              | 20800  | 21100  | 21400  | 20825  | 21100  | 21375  | 20850  | 21100  | 21350  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 2505   | 2535   | 2565   | 2507.5 | 2535   | 2562.5 | 2510   | 2535   | 2560   |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 21.85  | 21.97  | 21.84  | 21.84  | 21.56  | 21.91  | 21.59  | 21.95  | 21.91  |
| Conducted Power (Watts)              | 0.1531 | 0.1574 | 0.1528 | 0.1528 | 0.1432 | 0.1552 | 0.1442 | 0.1567 | 0.1552 |
| EIRP(dBm)                            | 25.85  | 25.97  | 25.84  | 25.84  | 25.56  | 25.91  | 25.59  | 25.95  | 25.91  |
| EIRP(Watts)                          | 0.3846 | 0.3954 | 0.3837 | 0.3837 | 0.3597 | 0.3899 | 0.3622 | 0.3936 | 0.3899 |



| LTE Band 7 (GT - LC = 4.00 dB) 64QAM |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 5M     |        |        |
| Channel                              | 20775  | 21100  | 21425  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 2502.5 | 2535   | 2567.5 |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 20.43  | 20.66  | 20.74  |
| Conducted Power (Watts)              | 0.1104 | 0.1164 | 0.1186 |
| EIRP(dBm)                            | 24.43  | 24.66  | 24.74  |
| EIRP(Watts)                          | 0.2773 | 0.2924 | 0.2979 |

| LTE Band 7 (GT - LC = 4.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                              | 20800  | 21100  | 21400  | 20825  | 21100  | 21375  | 20850  | 21100  | 21350  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 2505   | 2535   | 2565   | 2507.5 | 2535   | 2562.5 | 2510   | 2535   | 2560   |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 20.52  | 20.46  | 20.61  | 20.46  | 20.69  | 20.47  | 20.61  | 20.46  | 20.38  |
| Conducted Power (Watts)              | 0.1127 | 0.1112 | 0.1151 | 0.1112 | 0.1172 | 0.1114 | 0.1151 | 0.1112 | 0.1091 |
| EIRP(dBm)                            | 24.52  | 24.46  | 24.61  | 24.46  | 24.69  | 24.47  | 24.61  | 24.46  | 24.38  |
| EIRP(Watts)                          | 0.2831 | 0.2793 | 0.2891 | 0.2793 | 0.2944 | 0.2799 | 0.2891 | 0.2793 | 0.2742 |



| LTE Band 12 (GT - LC = 3.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 23017  | 23095  | 23173  | 23025  | 23095  | 23165  | 23035  | 23095  | 23155  |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 23.52  | 23.75  | 23.89  | 23.76  | 23.91  | 23.74  | 24.01  | 23.89  | 23.87  |
| Conducted Power (Watts)              | 0.2249 | 0.2371 | 0.2449 | 0.2377 | 0.2460 | 0.2366 | 0.2518 | 0.2449 | 0.2438 |
| ERP(dBm)                             | 24.37  | 24.60  | 24.74  | 24.61  | 24.76  | 24.59  | 24.86  | 24.74  | 24.72  |
| ERP(Watts)                           | 0.2735 | 0.2884 | 0.2979 | 0.2891 | 0.2992 | 0.2877 | 0.3062 | 0.2979 | 0.2965 |

| LTE Band 12 (GT - LC = 3.00 dB) QPSK |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        |
| Channel                              | 23060  | 23095  | 23130  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 704    | 707.5  | 711    |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 24.02  | 23.97  | 23.95  |
| Conducted Power (Watts)              | 0.2523 | 0.2495 | 0.2483 |
| ERP(dBm)                             | 24.87  | 24.82  | 24.80  |
| ERP(Watts)                           | 0.3069 | 0.3034 | 0.3020 |

| LTE Band 12 (GT - LC = 3.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 23017  | 23095  | 23173  | 23025  | 23095  | 23165  | 23035  | 23095  | 23155  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 23.00  | 23.26  | 22.65  | 23.14  | 23.47  | 22.76  | 23.49  | 23.33  | 23.22  |
| Conducted Power (Watts)               | 0.1995 | 0.2118 | 0.1841 | 0.2061 | 0.2223 | 0.1888 | 0.2234 | 0.2153 | 0.2099 |
| ERP(dBm)                              | 23.85  | 24.11  | 23.50  | 23.99  | 24.32  | 23.61  | 24.34  | 24.18  | 24.07  |
| ERP(Watts)                            | 0.2427 | 0.2576 | 0.2239 | 0.2506 | 0.2704 | 0.2296 | 0.2716 | 0.2618 | 0.2553 |

| LTE Band 12 (GT - LC = 3.00 dB) 16QAM |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        |
| Channel                               | 23060  | 23095  | 23130  |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency                             | 704    | 707.5  | 711    |
| (MHz)                                 |        |        |        |
| Conducted Power (dBm)                 | 23.13  | 22.92  | 23.40  |
| Conducted Power (Watts)               | 0.2056 | 0.1959 | 0.2188 |
| ERP(dBm)                              | 23.98  | 23.77  | 24.25  |
| ERP(Watts)                            | 0.2500 | 0.2382 | 0.2661 |



| LTE Band 12 (GT - LC = 3.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 23017  | 23095  | 23173  | 23025  | 23095  | 23165  | 23035  | 23095  | 23155  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency<br>(MHz)                    | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| Conducted Power (dBm)                 | 22.00  | 21.76  | 21.88  | 22.09  | 22.16  | 21.93  | 22.18  | 21.66  | 22.07  |
| Conducted Power (Watts)               | 0.1585 | 0.1500 | 0.1542 | 0.1618 | 0.1644 | 0.1560 | 0.1652 | 0.1466 | 0.1611 |
| ERP(dBm)                              | 22.85  | 22.61  | 22.73  | 22.94  | 23.01  | 22.78  | 23.03  | 22.51  | 22.92  |
| ERP(Watts)                            | 0.1928 | 0.1824 | 0.1875 | 0.1968 | 0.2000 | 0.1897 | 0.2009 | 0.1782 | 0.1959 |

| LTE Band 12 (GT - LC = 3.00 dB) 64QAM |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        |
| Channel                               | 23060  | 23095  | 23130  |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency<br>(MHz)                    | 704    | 707.5  | 711    |
| Conducted Power (dBm)                 | 22.14  | 22.16  | 21.78  |
| Conducted Power (Watts)               | 0.1637 | 0.1644 | 0.1507 |
| ERP(dBm)                              | 22.99  | 23.01  | 22.63  |
| ERP(Watts)                            | 0.1991 | 0.2000 | 0.1832 |



| LTE Band 13 (GT - LC = 3.00 dB) QPSK |        |        |        |       |        |   |
|--------------------------------------|--------|--------|--------|-------|--------|---|
| Bandwidth                            | 5M     |        |        | 10M   |        |   |
| Channel                              | 23205  | 23230  | 23255  | 23230 |        |   |
|                                      | (Low)  | (Mid)  | (High) | -     | (Mid)  | - |
| Frequency                            | 779.5  | 782    | 784.5  | -     | 782    | - |
| (MHz)                                |        |        |        |       |        |   |
| Conducted Power (dBm)                | 23.63  | 23.56  | 23.48  |       | 23.67  | - |
| Conducted Power (Watts)              | 0.2307 | 0.2270 | 0.2228 |       | 0.2328 | - |
| ERP(dBm)                             | 24.48  | 24.41  | 24.33  |       | 24.52  | - |
| ERP(Watts)                           | 0.2805 | 0.2761 | 0.2710 |       | 0.2831 | - |

| LTE Band 13 (GT - LC = 3.00 dB) 16QAM |        |        |        |       |        |   |
|---------------------------------------|--------|--------|--------|-------|--------|---|
| Bandwidth                             | 5M     |        |        | 10M   |        |   |
| Channel                               | 23205  | 23230  | 23255  | 23230 |        |   |
|                                       | (Low)  | (Mid)  | (High) | -     | (Mid)  | - |
| Frequency                             | 779.5  | 782    | 784.5  | -     | 782    | - |
| (MHz)                                 |        |        |        |       |        |   |
| Conducted Power (dBm)                 | 22.89  | 23.01  | 23.11  |       | 22.77  | - |
| Conducted Power (Watts)               | 0.1945 | 0.2000 | 0.2046 |       | 0.1892 | - |
| ERP(dBm)                              | 23.74  | 23.86  | 23.96  |       | 23.62  | - |
| ERP(Watts)                            | 0.2366 | 0.2432 | 0.2489 |       | 0.2301 | - |

| LTE Band 13 (GT - LC = 3.00 dB) 64QAM |        |        |        |       |        |   |
|---------------------------------------|--------|--------|--------|-------|--------|---|
| Bandwidth                             | 5M     |        |        | 10M   |        |   |
| Channel                               | 23205  | 23230  | 23255  | 23230 |        |   |
|                                       | (Low)  | (Mid)  | (High) | -     | (Mid)  | - |
| Frequency                             | 779.5  | 782    | 784.5  | -     | 782    | - |
| (MHz)                                 |        |        |        |       |        |   |
| Conducted Power (dBm)                 | 21.90  | 21.81  | 21.50  |       | 21.70  | - |
| Conducted Power (Watts)               | 0.1549 | 0.1517 | 0.1413 |       | 0.1479 | - |
| ERP(dBm)                              | 22.75  | 22.66  | 22.35  |       | 22.55  | - |
| ERP(Watts)                            | 0.1884 | 0.1845 | 0.1718 |       | 0.1799 | - |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) QPSK |        |        |        |        |        |        |        |        |        |
|-------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                                 | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                                   | 39675  | 40620  | 41565  | 39700  | 40620  | 41540  | 39725  | 40620  | 41515  |
|                                           | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                                 | 2498.5 | 2593   | 2687.5 | 2501   | 2593   | 2685   | 2503.5 | 2593   | 2682.5 |
| (MHz)                                     |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                     | 26.05  | 26.34  | 26.38  | 26.04  | 26.34  | 26.37  | 26.13  | 26.38  | 26.37  |
| Conducted Power (Watts)                   | 0.4027 | 0.4305 | 0.4345 | 0.4018 | 0.4305 | 0.4335 | 0.4102 | 0.4345 | 0.4335 |
| EIRP(dBm)                                 | 30.05  | 30.34  | 30.38  | 30.04  | 30.34  | 30.37  | 30.13  | 30.38  | 30.37  |
| EIRP(Watts)                               | 1.0116 | 1.0814 | 1.0914 | 1.0093 | 1.0814 | 1.0889 | 1.0304 | 1.0914 | 1.0889 |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) QPSK |        |        |        |
|-------------------------------------------|--------|--------|--------|
| Bandwidth                                 | 20M    |        |        |
| Channel                                   | 39750  | 40620  | 41490  |
|                                           | (Low)  | (Mid)  | (High) |
| Frequency                                 | 2506   | 2593   | 2680   |
| (MHz)                                     |        |        |        |
| Conducted Power (dBm)                     | 26.12  | 26.39  | 26.40  |
| Conducted Power (Watts)                   | 0.4093 | 0.4355 | 0.4365 |
| EIRP(dBm)                                 | 30.12  | 30.39  | 30.40  |
| EIRP(Watts)                               | 1.0280 | 1.0940 | 1.0965 |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) 16QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                                  | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                                    | 39675  | 40620  | 41565  | 39700  | 40620  | 41540  | 39725  | 40620  | 41515  |
|                                            | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2498.5 | 2593   | 2687.5 | 2501   | 2593   | 2685   | 2503.5 | 2593   | 2682.5 |
| (MHz)                                      |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                      | 25.23  | 25.65  | 25.68  | 25.30  | 25.68  | 25.62  | 25.26  | 25.63  | 25.61  |
| Conducted Power (Watts)                    | 0.3334 | 0.3673 | 0.3698 | 0.3388 | 0.3698 | 0.3648 | 0.3357 | 0.3656 | 0.3639 |
| EIRP(dBm)                                  | 29.23  | 29.65  | 29.68  | 29.30  | 29.68  | 29.62  | 29.26  | 29.63  | 29.61  |
| EIRP(Watts)                                | 0.8375 | 0.9226 | 0.9290 | 0.8511 | 0.9290 | 0.9162 | 0.8433 | 0.9183 | 0.9141 |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) 16QAM |        |        |        |
|--------------------------------------------|--------|--------|--------|
| Bandwidth                                  | 20M    |        |        |
| Channel                                    | 39750  | 40620  | 41490  |
|                                            | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2506   | 2593   | 2680   |
| (MHz)                                      |        |        |        |
| Conducted Power (dBm)                      | 25.31  | 25.63  | 25.62  |
| Conducted Power (Watts)                    | 0.3396 | 0.3656 | 0.3648 |
| EIRP(dBm)                                  | 29.31  | 29.63  | 29.62  |
| EIRP(Watts)                                | 0.8531 | 0.9183 | 0.9162 |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) 64QAM |        |        |        |        |        |        |        |        |        |
|--------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                                  | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                                    | 39675  | 40620  | 41565  | 39700  | 40620  | 41540  | 39725  | 40620  | 41515  |
|                                            | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2498.5 | 2593   | 2687.5 | 2501   | 2593   | 2685   | 2503.5 | 2593   | 2682.5 |
| (MHz)                                      |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                      | 24.17  | 24.53  | 24.57  | 24.14  | 24.48  | 24.54  | 24.18  | 24.52  | 24.50  |
| Conducted Power (Watts)                    | 0.2612 | 0.2838 | 0.2864 | 0.2594 | 0.2805 | 0.2844 | 0.2618 | 0.2831 | 0.2818 |
| EIRP(dBm)                                  | 28.17  | 28.53  | 28.57  | 28.14  | 28.48  | 28.54  | 28.18  | 28.52  | 28.50  |
| EIRP(Watts)                                | 0.6561 | 0.7129 | 0.7194 | 0.6516 | 0.7047 | 0.7145 | 0.6577 | 0.7112 | 0.7079 |

| LTE Band 41 ( $G_T - L_C = 4.00$ dB) 64QAM |        |        |        |
|--------------------------------------------|--------|--------|--------|
| Bandwidth                                  | 20M    |        |        |
| Channel                                    | 39750  | 40620  | 41490  |
|                                            | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2506   | 2593   | 2680   |
| (MHz)                                      |        |        |        |
| Conducted Power (dBm)                      | 24.21  | 24.51  | 24.51  |
| Conducted Power (Watts)                    | 0.2636 | 0.2825 | 0.2825 |
| EIRP(dBm)                                  | 28.21  | 28.51  | 28.51  |
| EIRP(Watts)                                | 0.6622 | 0.7096 | 0.7096 |

| LTE Band 71 (GT - LC = 3.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                              | 133147 | 133297 | 133447 | 133172 | 133297 | 133422 | 133197 | 133297 | 133397 |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 665.5  | 680.5  | 695.5  | 668    | 680.5  | 693    | 670.5  | 680.5  | 690.5  |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 23.34  | 23.42  | 23.33  | 23.32  | 23.46  | 23.35  | 23.39  | 23.30  | 23.29  |
| Conducted Power (Watts)              | 0.2158 | 0.2198 | 0.2153 | 0.2148 | 0.2218 | 0.2163 | 0.2183 | 0.2138 | 0.2133 |
| ERP(dBm)                             | 24.19  | 24.27  | 24.18  | 24.17  | 24.31  | 24.20  | 24.24  | 24.15  | 24.14  |
| ERP(Watts)                           | 0.2624 | 0.2673 | 0.2618 | 0.2612 | 0.2698 | 0.2630 | 0.2655 | 0.2600 | 0.2594 |

| LTE Band 71 (GT - LC = 3.00 dB) QPSK |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 20M    |        |        |
| Channel                              | 133222 | 133297 | 133372 |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 673    | 680.5  | 688    |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 23.78  | 23.81  | 23.73  |
| Conducted Power (Watts)              | 0.2388 | 0.2404 | 0.2360 |
| ERP(dBm)                             | 24.63  | 24.66  | 24.58  |
| ERP(Watts)                           | 0.2904 | 0.2924 | 0.2871 |

| LTE Band 71 (GT - LC = 3.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                               | 133147 | 133297 | 133447 | 133172 | 133297 | 133422 | 133197 | 133297 | 133397 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 665.5  | 680.5  | 695.5  | 668    | 680.5  | 693    | 670.5  | 680.5  | 690.5  |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 23.72  | 23.71  | 23.50  | 23.75  | 23.62  | 23.51  | 23.64  | 23.68  | 23.72  |
| Conducted Power (Watts)               | 0.2355 | 0.2350 | 0.2239 | 0.2371 | 0.2301 | 0.2244 | 0.2312 | 0.2333 | 0.2355 |
| ERP(dBm)                              | 24.57  | 24.56  | 24.35  | 24.60  | 24.47  | 24.36  | 24.49  | 24.53  | 24.57  |
| ERP(Watts)                            | 0.2864 | 0.2858 | 0.2723 | 0.2884 | 0.2799 | 0.2729 | 0.2812 | 0.2838 | 0.2864 |

| LTE Band 71 (GT - LC = 3.00 dB) 16QAM |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 20M    |        |        |
| Channel                               | 133222 | 133297 | 133372 |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency                             | 673    | 680.5  | 688    |
| (MHz)                                 |        |        |        |
| Conducted Power (dBm)                 | 23.80  | 23.57  | 23.64  |
| Conducted Power (Watts)               | 0.2399 | 0.2275 | 0.2312 |
| ERP(dBm)                              | 24.65  | 24.42  | 24.49  |
| ERP(Watts)                            | 0.2917 | 0.2767 | 0.2812 |



| LTE Band 71 (GT - LC = 3.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 5M     |        |        | 10M    |        |        | 15M    |        |        |
| Channel                               | 133147 | 133297 | 133447 | 133172 | 133297 | 133422 | 133197 | 133297 | 133397 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 665.5  | 680.5  | 695.5  | 668    | 680.5  | 693    | 670.5  | 680.5  | 690.5  |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 23.47  | 23.58  | 23.42  | 23.54  | 23.60  | 23.43  | 23.52  | 23.50  | 23.45  |
| Conducted Power (Watts)               | 0.2223 | 0.2280 | 0.2198 | 0.2259 | 0.2291 | 0.2203 | 0.2249 | 0.2239 | 0.2213 |
| ERP(dBm)                              | 24.32  | 24.43  | 24.27  | 24.39  | 24.45  | 24.28  | 24.37  | 24.35  | 24.30  |
| ERP(Watts)                            | 0.2704 | 0.2773 | 0.2673 | 0.2748 | 0.2786 | 0.2679 | 0.2735 | 0.2723 | 0.2692 |

| LTE Band 71 (GT - LC = 3.00 dB) 64QAM |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 20M    |        |        |
| Channel                               | 133222 | 133297 | 133372 |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency                             | 673    | 680.5  | 688    |
| (MHz)                                 |        |        |        |
| Conducted Power (dBm)                 | 23.55  | 23.44  | 23.44  |
| Conducted Power (Watts)               | 0.2265 | 0.2208 | 0.2208 |
| ERP(dBm)                              | 24.40  | 24.29  | 24.29  |
| ERP(Watts)                            | 0.2754 | 0.2685 | 0.2685 |

# CA EIRP

| LTE Band 7 CA (GT - LC = 4.00 dB) QPSK |           |        |        |           |        |        |         |        |        |
|----------------------------------------|-----------|--------|--------|-----------|--------|--------|---------|--------|--------|
| Bandwidth                              | 15M + 15M |        |        | 10M + 20M |        |        | 20M+10M |        |        |
| Channel PCC                            | 20825     | 21025  | 21225  | 20805     | 21006  | 21206  | 20850   | 21051  | 21251  |
|                                        | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                            | 20975     | 21175  | 21375  | 20949     | 21150  | 21350  | 20994   | 21195  | 21395  |
|                                        | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                  | 21.58     | 21.53  | 21.31  | 18.78     | 18.83  | 18.55  | 21.74   | 21.53  | 21.49  |
| Conducted Power (Watts)                | 0.1439    | 0.1422 | 0.1352 | 0.0755    | 0.0764 | 0.0716 | 0.1493  | 0.1422 | 0.1409 |
| EIRP(dBm)                              | 25.58     | 25.53  | 25.31  | 22.78     | 22.83  | 22.55  | 25.74   | 25.53  | 25.49  |
| EIRP(Watts)                            | 0.3614    | 0.3573 | 0.3396 | 0.1897    | 0.1919 | 0.1799 | 0.3750  | 0.3573 | 0.3540 |

| LTE Band 7 CA (GT - LC = 4.00 dB) QPSK |         |        |        |         |        |        |           |        |        |
|----------------------------------------|---------|--------|--------|---------|--------|--------|-----------|--------|--------|
| Bandwidth                              | 15M+20M |        |        | 20M+15M |        |        | 20M + 20M |        |        |
| Channel PCC                            | 20828   | 21003  | 21179  | 20850   | 21026  | 21201  | 20850     | 21001  | 21152  |
|                                        | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                            | 20999   | 21174  | 21350  | 21021   | 21197  | 21372  | 21048     | 21199  | 21350  |
|                                        | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                  | 21.71   | 21.48  | 21.38  | 21.74   | 21.61  | 21.50  | 21.64     | 21.59  | 21.51  |
| Conducted Power (Watts)                | 0.1483  | 0.1406 | 0.1374 | 0.1493  | 0.1449 | 0.1413 | 0.1459    | 0.1442 | 0.1416 |
| EIRP(dBm)                              | 25.71   | 25.48  | 25.38  | 25.74   | 25.61  | 25.50  | 25.64     | 25.59  | 25.51  |
| EIRP(Watts)                            | 0.3724  | 0.3532 | 0.3451 | 0.3750  | 0.3639 | 0.3548 | 0.3664    | 0.3622 | 0.3556 |



| LTE Band 7 CA (GT - LC = 4.00 dB) QPSK |           |        |        |
|----------------------------------------|-----------|--------|--------|
| Bandwidth                              | 15M + 10M |        |        |
| Channel PCC                            | 20825     | 21025  | 21225  |
|                                        | (Low)     | (Mid)  | (High) |
| Channel SCC                            | 20975     | 21175  | 21375  |
|                                        | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                  | 21.64     | 21.42  | 21.37  |
| Conducted Power (Watts)                | 0.1459    | 0.1387 | 0.1371 |
| EIRP(dBm)                              | 25.64     | 25.42  | 25.37  |
| EIRP(Watts)                            | 0.3664    | 0.3483 | 0.3443 |

| LTE Band 7 CA (GT - LC = 4.00 dB) 16QAM |           |        |        |           |        |        |         |        |        |
|-----------------------------------------|-----------|--------|--------|-----------|--------|--------|---------|--------|--------|
| Bandwidth                               | 15M + 15M |        |        | 10M + 20M |        |        | 20M+10M |        |        |
| Channel PCC                             | 20825     | 21025  | 21225  | 20805     | 21006  | 21206  | 20850   | 21051  | 21251  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                             | 20975     | 21175  | 21375  | 20949     | 21150  | 21350  | 20994   | 21195  | 21395  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.11     | 21.04  | 21.00  | 21.17     | 21.04  | 21.05  | 21.12   | 21.03  | 21.11  |
| Conducted Power (Watts)                 | 0.1291    | 0.1271 | 0.1259 | 0.1309    | 0.1271 | 0.1274 | 0.1294  | 0.1268 | 0.1291 |
| EIRP(dBm)                               | 25.11     | 25.04  | 25.00  | 25.17     | 25.04  | 25.05  | 25.12   | 25.03  | 25.11  |
| EIRP(Watts)                             | 0.3243    | 0.3192 | 0.3162 | 0.3289    | 0.3192 | 0.3199 | 0.3251  | 0.3184 | 0.3243 |

| LTE Band 7 CA (GT - LC = 4.00 dB) 16QAM |         |        |        |         |        |        |           |        |        |
|-----------------------------------------|---------|--------|--------|---------|--------|--------|-----------|--------|--------|
| Bandwidth                               | 15M+20M |        |        | 20M+15M |        |        | 20M + 20M |        |        |
| Channel PCC                             | 20828   | 21003  | 21179  | 20850   | 21026  | 21201  | 20850     | 21001  | 21152  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                             | 20999   | 21174  | 21350  | 21021   | 21197  | 21372  | 21048     | 21199  | 21350  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.03   | 20.92  | 21.06  | 21.17   | 21.06  | 21.14  | 21.28     | 21.12  | 21.04  |
| Conducted Power (Watts)                 | 0.1268  | 0.1236 | 0.1276 | 0.1309  | 0.1276 | 0.1300 | 0.1343    | 0.1294 | 0.1271 |
| EIRP(dBm)                               | 25.03   | 24.92  | 25.06  | 25.17   | 25.06  | 25.14  | 25.28     | 25.12  | 25.04  |
| EIRP(Watts)                             | 0.3184  | 0.3105 | 0.3206 | 0.3289  | 0.3206 | 0.3266 | 0.3373    | 0.3251 | 0.3192 |



| LTE Band 7 CA (GT - LC = 4.00 dB) 16QAM |           |        |        |
|-----------------------------------------|-----------|--------|--------|
| Bandwidth                               | 15M + 10M |        |        |
| Channel PCC                             | 20825     | 21025  | 21225  |
|                                         | (Low)     | (Mid)  | (High) |
| Channel SCC                             | 20975     | 21175  | 21375  |
|                                         | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.01     | 21.06  | 21.07  |
| Conducted Power (Watts)                 | 0.1262    | 0.1276 | 0.1279 |
| EIRP(dBm)                               | 25.01     | 25.06  | 25.07  |
| EIRP(Watts)                             | 0.3170    | 0.3206 | 0.3214 |

| LTE Band 7 CA (GT - LC = 4.00 dB) 64QAM |           |        |        |           |        |        |         |        |        |
|-----------------------------------------|-----------|--------|--------|-----------|--------|--------|---------|--------|--------|
| Bandwidth                               | 15M + 15M |        |        | 10M + 20M |        |        | 20M+10M |        |        |
| Channel PCC                             | 20825     | 21025  | 21225  | 20805     | 21006  | 21206  | 20850   | 21051  | 21251  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                             | 20975     | 21175  | 21375  | 20949     | 21150  | 21350  | 20994   | 21195  | 21395  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                   | 18.67     | 18.85  | 18.63  | 21.62     | 21.42  | 21.44  | 18.71   | 18.67  | 18.67  |
| Conducted Power (Watts)                 | 0.0736    | 0.0767 | 0.0729 | 0.1452    | 0.1387 | 0.1393 | 0.0743  | 0.0736 | 0.0736 |
| EIRP(dBm)                               | 22.67     | 22.85  | 22.63  | 25.62     | 25.42  | 25.44  | 22.71   | 22.67  | 22.67  |
| EIRP(Watts)                             | 0.1849    | 0.1928 | 0.1832 | 0.3648    | 0.3483 | 0.3499 | 0.1866  | 0.1849 | 0.1849 |

| LTE Band 7 CA (GT - LC = 4.00 dB) 64QAM |         |        |        |         |        |        |           |        |        |
|-----------------------------------------|---------|--------|--------|---------|--------|--------|-----------|--------|--------|
| Bandwidth                               | 15M+20M |        |        | 20M+15M |        |        | 20M + 20M |        |        |
| Channel PCC                             | 20828   | 21003  | 21179  | 20850   | 21026  | 21201  | 20850     | 21001  | 21152  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                             | 20999   | 21174  | 21350  | 21021   | 21197  | 21372  | 21048     | 21199  | 21350  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                   | 18.77   | 18.87  | 18.68  | 18.86   | 18.87  | 18.71  | 19.00     | 18.93  | 18.86  |
| Conducted Power (Watts)                 | 0.0753  | 0.0771 | 0.0738 | 0.0769  | 0.0771 | 0.0743 | 0.0794    | 0.0782 | 0.0769 |
| EIRP(dBm)                               | 22.77   | 22.87  | 22.68  | 22.86   | 22.87  | 22.71  | 23.00     | 22.93  | 22.86  |
| EIRP(Watts)                             | 0.1892  | 0.1936 | 0.1854 | 0.1932  | 0.1936 | 0.1866 | 0.1995    | 0.1963 | 0.1932 |



| LTE Band 7 CA (GT - LC = 4.00 dB) 64QAM |           |        |        |
|-----------------------------------------|-----------|--------|--------|
| Bandwidth                               | 15M + 10M |        |        |
| Channel PCC                             | 20825     | 21025  | 21225  |
|                                         | (Low)     | (Mid)  | (High) |
| Channel SCC                             | 20975     | 21175  | 21375  |
|                                         | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                   | 18.85     | 18.83  | 18.53  |
| Conducted Power (Watts)                 | 0.0767    | 0.0764 | 0.0713 |
| EIRP(dBm)                               | 22.85     | 22.83  | 22.53  |
| EIRP(Watts)                             | 0.1928    | 0.1919 | 0.1791 |

| LTE Band 41 CA (GT - LC = 4.00 dB) QPSK |           |        |        |          |        |        |          |        |        |
|-----------------------------------------|-----------|--------|--------|----------|--------|--------|----------|--------|--------|
| Bandwidth                               | 15M + 15M |        |        | 5M + 20M |        |        | 20M + 5M |        |        |
| Channel PCC                             | 39725     | 40545  | 41365  | 39683    | 40528  | 41373  | 39750    | 40595  | 41440  |
|                                         | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Channel SCC                             | 39875     | 40695  | 41515  | 39800    | 40645  | 41490  | 39867    | 40712  | 41557  |
|                                         | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.69     | 21.55  | 21.84  | 21.73    | 21.50  | 21.83  | 21.76    | 21.60  | 21.75  |
| Conducted Power (Watts)                 | 0.1476    | 0.1429 | 0.1528 | 0.1489   | 0.1413 | 0.1524 | 0.1500   | 0.1445 | 0.1496 |
| EIRP(dBm)                               | 25.69     | 25.55  | 25.84  | 25.73    | 25.50  | 25.83  | 25.76    | 25.60  | 25.75  |
| EIRP(Watts)                             | 0.3707    | 0.3589 | 0.3837 | 0.3741   | 0.3548 | 0.3828 | 0.3767   | 0.3631 | 0.3758 |

| LTE Band 41 CA (GT - LC = 4.00 dB) QPSK |           |        |        |           |        |        |           |        |        |
|-----------------------------------------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| Bandwidth                               | 10M + 20M |        |        | 20M + 10M |        |        | 15M + 20M |        |        |
| Channel PCC                             | 39705     | 40526  | 41346  | 39750     | 40571  | 41391  | 39728     | 40523  | 41319  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                             | 39849     | 40670  | 41490  | 39894     | 40715  | 41535  | 39899     | 40694  | 41490  |
|                                         | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.84     | 21.49  | 21.87  | 21.76     | 21.56  | 21.82  | 21.76     | 21.56  | 21.75  |
| Conducted Power (Watts)                 | 0.1528    | 0.1409 | 0.1538 | 0.1500    | 0.1432 | 0.1521 | 0.1500    | 0.1432 | 0.1496 |
| EIRP(dBm)                               | 25.84     | 25.49  | 25.87  | 25.76     | 25.56  | 25.82  | 25.76     | 25.56  | 25.75  |
| EIRP(Watts)                             | 0.3837    | 0.3540 | 0.3864 | 0.3767    | 0.3597 | 0.3819 | 0.3767    | 0.3597 | 0.3758 |



| LTE Band 41 CA (GT - LC = 4.00 dB) QPSK |         |        |        |         |        |        |
|-----------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                               | 20M+15M |        |        | 20M+20M |        |        |
| Channel PCC                             | 39750   | 40546  | 41341  | 39750   | 40521  | 41292  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                             | 39921   | 40717  | 41512  | 39948   | 40719  | 41490  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.89   | 21.61  | 21.90  | 21.82   | 21.59  | 21.73  |
| Conducted Power (Watts)                 | 0.1545  | 0.1449 | 0.1549 | 0.1521  | 0.1442 | 0.1489 |
| EIRP(dBm)                               | 25.89   | 25.61  | 25.90  | 25.82   | 25.59  | 25.73  |
| EIRP(Watts)                             | 0.3882  | 0.3639 | 0.3890 | 0.3819  | 0.3622 | 0.3741 |

| LTE Band 41 CA (GT - LC = 4.00 dB) QPSK |         |        |        |         |        |        |
|-----------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                               | 15M+10M |        |        | 10M+15M |        |        |
| Channel PCC                             | 39725   | 40571  | 41417  | 39703   | 40549  | 41395  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                             | 39845   | 40691  | 41537  | 39823   | 40669  | 41490  |
|                                         | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                   | 21.83   | 21.50  | 21.71  | 21.80   | 21.60  | 21.82  |
| Conducted Power (Watts)                 | 0.1524  | 0.1413 | 0.1483 | 0.1514  | 0.1445 | 0.1521 |
| EIRP(dBm)                               | 25.83   | 25.50  | 25.71  | 25.80   | 25.60  | 25.82  |
| EIRP(Watts)                             | 0.3828  | 0.3548 | 0.3724 | 0.3802  | 0.3631 | 0.3819 |



| LTE Band 41 CA (GT - LC = 4.00 dB) 16QAM |           |        |        |          |        |        |          |        |        |
|------------------------------------------|-----------|--------|--------|----------|--------|--------|----------|--------|--------|
| Bandwidth                                | 15M + 15M |        |        | 5M + 20M |        |        | 20M + 5M |        |        |
| Channel PCC                              | 39725     | 40545  | 41365  | 39683    | 40528  | 41373  | 39750    | 40595  | 41440  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Channel SCC                              | 39875     | 40695  | 41515  | 39800    | 40645  | 41490  | 39867    | 40712  | 41557  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Conducted Power (dBm)                    | 20.78     | 20.49  | 20.89  | 20.87    | 20.53  | 20.78  | 20.73    | 20.51  | 20.79  |
| Conducted Power (Watts)                  | 0.1197    | 0.1119 | 0.1227 | 0.1222   | 0.1130 | 0.1197 | 0.1183   | 0.1125 | 0.1199 |
| EIRP(dBm)                                | 24.78     | 24.49  | 24.89  | 24.87    | 24.53  | 24.78  | 24.73    | 24.51  | 24.79  |
| EIRP(Watts)                              | 0.3006    | 0.2812 | 0.3083 | 0.3069   | 0.2838 | 0.3006 | 0.2972   | 0.2825 | 0.3013 |

| LTE Band 41 CA (GT - LC = 4.00 dB) 16QAM |           |        |        |           |        |        |           |        |        |
|------------------------------------------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| Bandwidth                                | 10M + 20M |        |        | 20M + 10M |        |        | 15M + 20M |        |        |
| Channel PCC                              | 39705     | 40526  | 41346  | 39750     | 40571  | 41391  | 39728     | 40523  | 41319  |
|                                          | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                              | 39849     | 40670  | 41490  | 39894     | 40715  | 41535  | 39899     | 40694  | 41490  |
|                                          | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                    | 21.83     | 21.50  | 21.71  | 20.86     | 20.63  | 20.80  | 20.88     | 20.50  | 20.79  |
| Conducted Power (Watts)                  | 0.1524    | 0.1413 | 0.1483 | 0.1219    | 0.1156 | 0.1202 | 0.1225    | 0.1122 | 0.1199 |
| EIRP(dBm)                                | 25.83     | 25.50  | 25.71  | 24.86     | 24.63  | 24.80  | 24.88     | 24.50  | 24.79  |
| EIRP(Watts)                              | 0.3828    | 0.3548 | 0.3724 | 0.3062    | 0.2904 | 0.3020 | 0.3076    | 0.2818 | 0.3013 |



| LTE Band 41 CA (GT - LC = 4.00 dB) 16QAM |         |        |        |         |        |        |
|------------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                                | 20M+15M |        |        | 20M+20M |        |        |
| Channel PCC                              | 39750   | 40546  | 41341  | 39750   | 40521  | 41292  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                              | 39921   | 40717  | 41512  | 39948   | 40719  | 41490  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                    | 20.92   | 20.68  | 20.93  | 20.81   | 20.64  | 20.74  |
| Conducted Power (Watts)                  | 0.1236  | 0.1169 | 0.1239 | 0.1205  | 0.1159 | 0.1186 |
| EIRP(dBm)                                | 24.92   | 24.68  | 24.93  | 24.81   | 24.64  | 24.74  |
| EIRP(Watts)                              | 0.3105  | 0.2938 | 0.3112 | 0.3027  | 0.2911 | 0.2979 |

| LTE Band 41 CA (GT - LC = 4.00 dB) 16QAM |         |        |        |         |        |        |
|------------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                                | 15M+10M |        |        | 10M+15M |        |        |
| Channel PCC                              | 39725   | 40571  | 41417  | 39703   | 40549  | 41395  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                              | 39845   | 40691  | 41537  | 39823   | 40669  | 41490  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                    | 20.78   | 20.50  | 20.82  | 20.85   | 20.49  | 20.93  |
| Conducted Power (Watts)                  | 0.1197  | 0.1122 | 0.1208 | 0.1216  | 0.1119 | 0.1239 |
| EIRP(dBm)                                | 24.78   | 24.50  | 24.82  | 24.85   | 24.49  | 24.93  |
| EIRP(Watts)                              | 0.3006  | 0.2818 | 0.3034 | 0.3055  | 0.2812 | 0.3112 |

| LTE Band 41 CA (GT - LC = 4.00 dB) 64QAM |           |        |        |          |        |        |          |        |        |
|------------------------------------------|-----------|--------|--------|----------|--------|--------|----------|--------|--------|
| Bandwidth                                | 15M + 15M |        |        | 5M + 20M |        |        | 20M + 5M |        |        |
| Channel PCC                              | 39725     | 40545  | 41365  | 39683    | 40528  | 41373  | 39750    | 40595  | 41440  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Channel SCC                              | 39875     | 40695  | 41515  | 39800    | 40645  | 41490  | 39867    | 40712  | 41557  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)    | (Mid)  | (High) |
| Conducted Power (dBm)                    | 19.01     | 18.84  | 18.90  | 18.99    | 18.79  | 19.02  | 19.03    | 18.80  | 18.87  |
| Conducted Power (Watts)                  | 0.0796    | 0.0766 | 0.0776 | 0.0793   | 0.0757 | 0.0798 | 0.0800   | 0.0759 | 0.0771 |
| EIRP(dBm)                                | 23.01     | 22.84  | 22.90  | 22.99    | 22.79  | 23.02  | 23.03    | 22.80  | 22.87  |
| EIRP(Watts)                              | 0.2000    | 0.1923 | 0.1950 | 0.1991   | 0.1901 | 0.2004 | 0.2009   | 0.1905 | 0.1936 |

| LTE Band 41 CA (GT - LC = 4.00 dB) 64QAM |           |        |        |           |        |        |           |        |        |
|------------------------------------------|-----------|--------|--------|-----------|--------|--------|-----------|--------|--------|
| Bandwidth                                | 10M + 20M |        |        | 20M + 10M |        |        | 15M + 20M |        |        |
| Channel PCC                              | 39705     | 40526  | 41346  | 39750     | 40571  | 41391  | 39728     | 40523  | 41319  |
|                                          | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Channel SCC                              | 39849     | 40670  | 41490  | 39894     | 40715  | 41535  | 39899     | 40694  | 41490  |
|                                          | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) | (Low)     | (Mid)  | (High) |
| Conducted Power (dBm)                    | 19.05     | 20.54  | 18.79  | 18.91     | 18.80  | 18.92  | 18.95     | 18.66  | 18.87  |
| Conducted Power (Watts)                  | 0.0804    | 0.1132 | 0.0757 | 0.0778    | 0.0759 | 0.0780 | 0.0785    | 0.0735 | 0.0771 |
| EIRP(dBm)                                | 23.05     | 24.54  | 22.79  | 22.91     | 22.80  | 22.92  | 22.95     | 22.66  | 22.87  |
| EIRP(Watts)                              | 0.2018    | 0.2844 | 0.1901 | 0.1954    | 0.1905 | 0.1959 | 0.1972    | 0.1845 | 0.1936 |



| LTE Band 41 CA (GT - LC = 4.00 dB) 64QAM |         |        |        |         |        |        |
|------------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                                | 20M+15M |        |        | 20M+20M |        |        |
| Channel PCC                              | 39750   | 40546  | 41341  | 39750   | 40521  | 41292  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                              | 39921   | 40717  | 41512  | 39948   | 40719  | 41490  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                    | 19.11   | 18.85  | 19.05  | 18.99   | 18.82  | 19.02  |
| Conducted Power (Watts)                  | 0.0815  | 0.0767 | 0.0804 | 0.0793  | 0.0762 | 0.0798 |
| EIRP(dBm)                                | 23.11   | 22.85  | 23.05  | 22.99   | 22.82  | 23.02  |
| EIRP(Watts)                              | 0.2046  | 0.1928 | 0.2018 | 0.1991  | 0.1914 | 0.2004 |

| LTE Band 41 CA (GT - LC = 4.00 dB) 64QAM |         |        |        |         |        |        |
|------------------------------------------|---------|--------|--------|---------|--------|--------|
| Bandwidth                                | 15M+10M |        |        | 10M+15M |        |        |
| Channel PCC                              | 39725   | 40571  | 41417  | 39703   | 40549  | 41395  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Channel SCC                              | 39845   | 40691  | 41537  | 39823   | 40669  | 41490  |
|                                          | (Low)   | (Mid)  | (High) | (Low)   | (Mid)  | (High) |
| Conducted Power (dBm)                    | 19.02   | 18.83  | 18.91  | 19.02   | 18.73  | 19.03  |
| Conducted Power (Watts)                  | 0.0798  | 0.0764 | 0.0778 | 0.0798  | 0.0746 | 0.0800 |
| EIRP(dBm)                                | 23.02   | 22.83  | 22.91  | 23.02   | 22.73  | 23.03  |
| EIRP(Watts)                              | 0.2004  | 0.1919 | 0.1954 | 0.2004  | 0.1875 | 0.2009 |



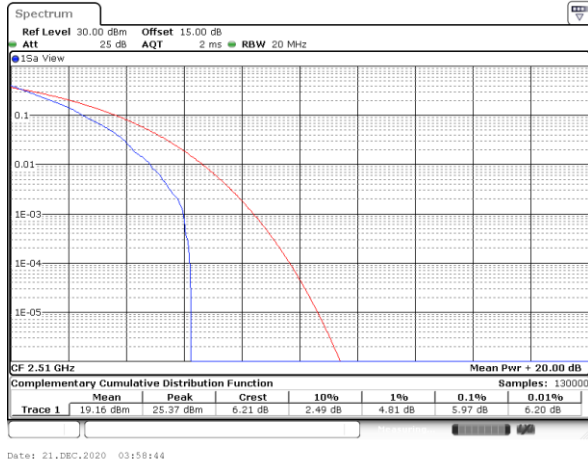
## LTE Band 7

## Peak-to-Average Ratio

| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
|------------|--------------------|---------|-------|---------|-------------|
| Mod.       | QPSK               |         | 16QAM |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB | 1RB   | Full RB | Result      |
| Lowest CH  | 5.97               | 5.51    | 7.16  | 6.35    | PASS        |
| Middle CH  | 5.39               | 5.42    | 6.35  | 6.23    |             |
| Highest CH | 6.03               | 5.25    | 6.87  | 6.29    |             |
| Mode       | LTE Band 7 / 20MHz |         |       |         |             |
| Mod.       | 64QAM              |         |       |         | Limit: 13dB |
| RB Size    | 1RB                | Full RB |       |         | Result      |
| Lowest CH  | 6.96               | 6.46    | -     | -       | PASS        |
| Middle CH  | 6.61               | 6.35    | -     | -       |             |
| Highest CH | 7.16               | 6.52    | -     | -       |             |

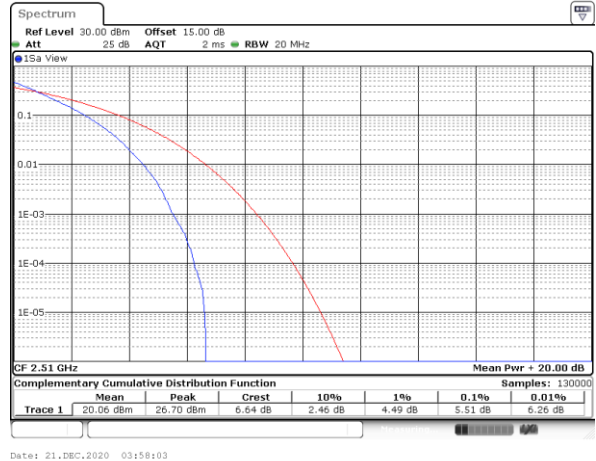
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



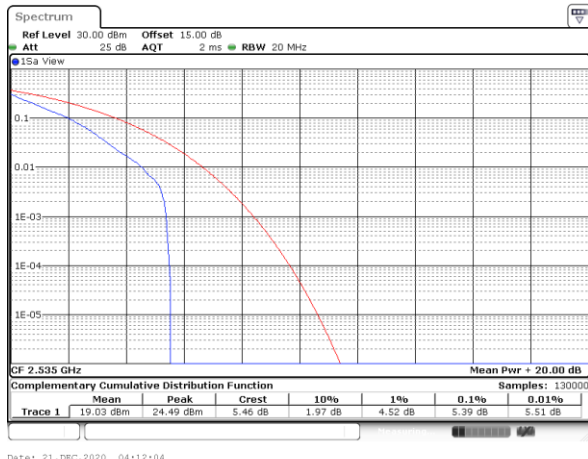
Date: 21.DEC.2020 03:58:44

Lowest Channel / Full RB



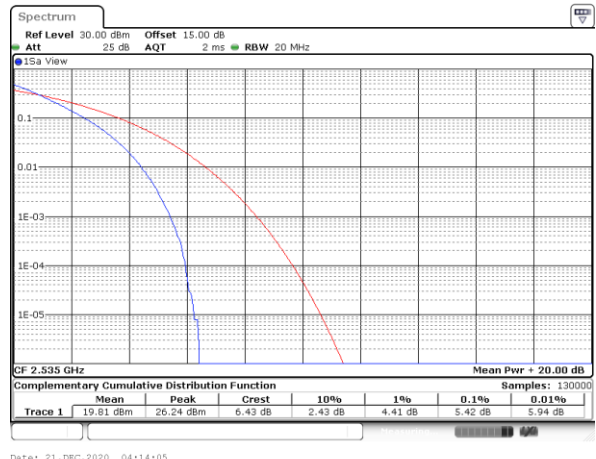
Date: 21.DEC.2020 03:58:03

Middle Channel / 1RB



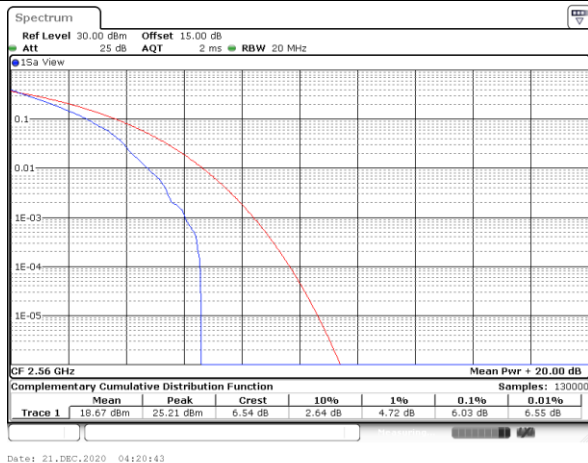
Date: 21.DEC.2020 04:12:04

Middle Channel / Full RB



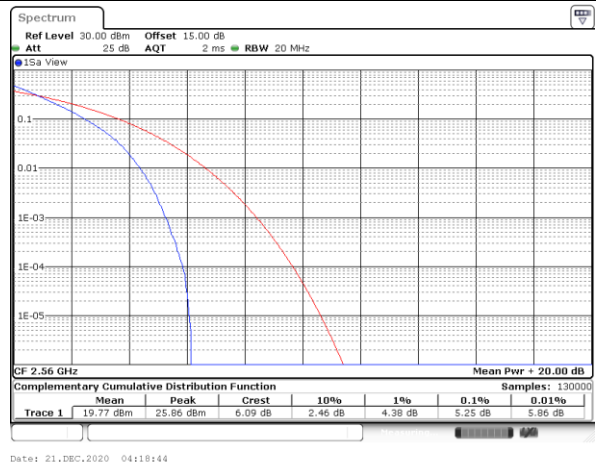
Date: 21.DEC.2020 04:14:05

Highest Channel / 1RB



Date: 21.DEC.2020 04:20:43

Highest Channel / Full RB

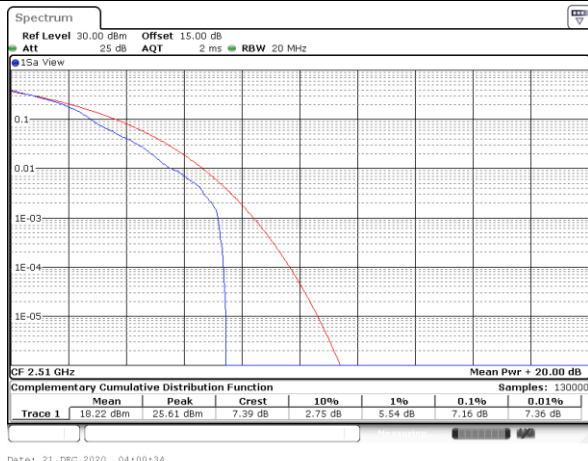


Date: 21.DEC.2020 04:18:44

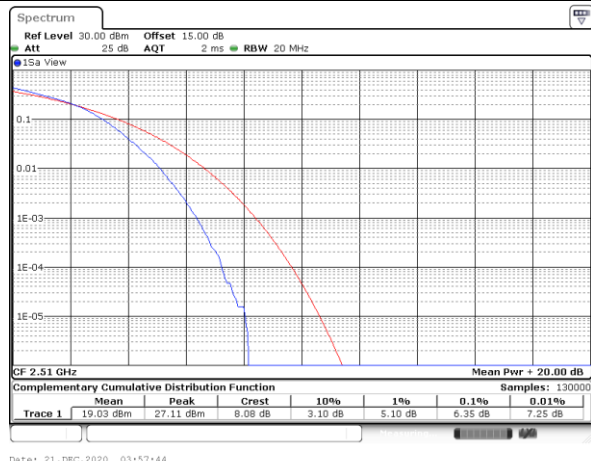


## LTE Band 7 / 20MHz / 16QAM

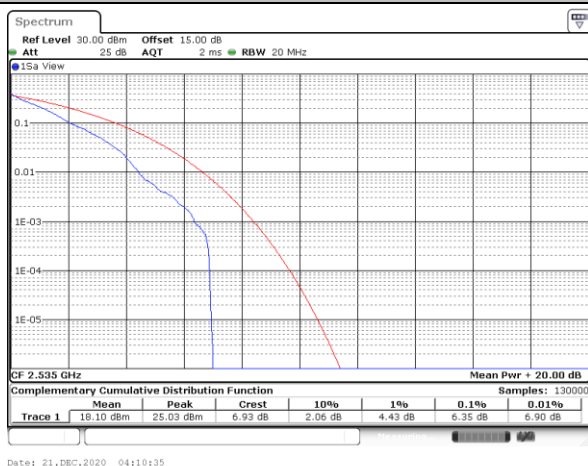
## Lowest Channel / 1RB



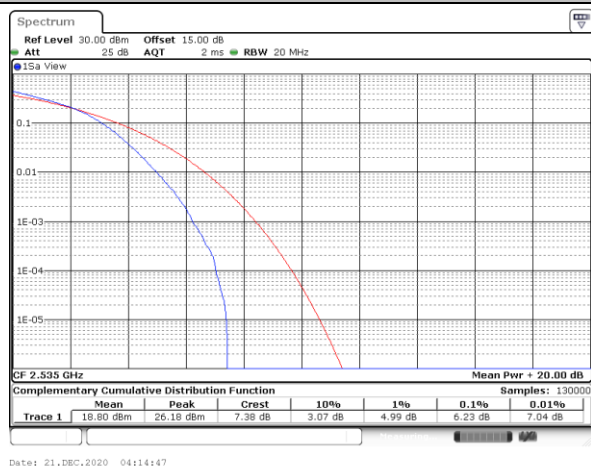
## Lowest Channel / Full RB



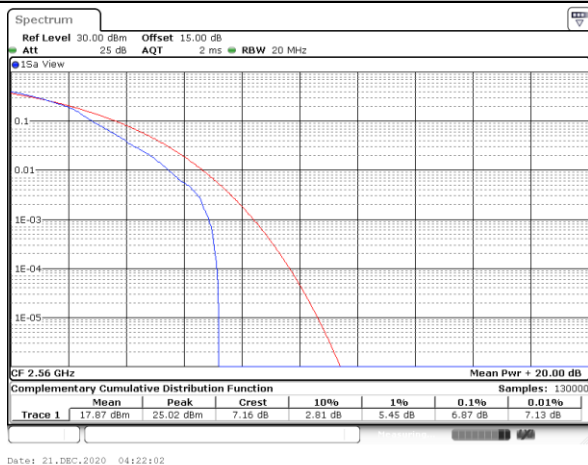
## Middle Channel / 1RB



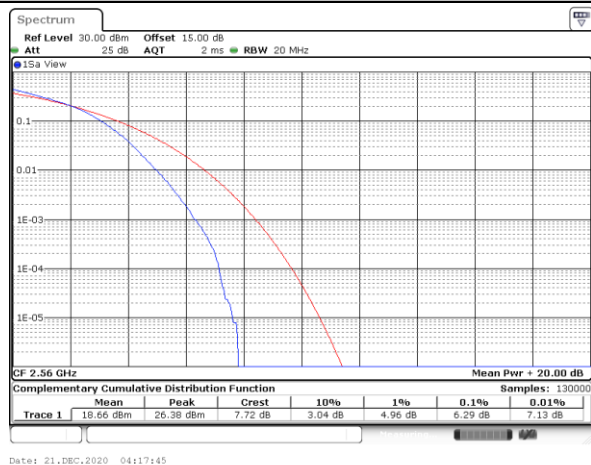
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



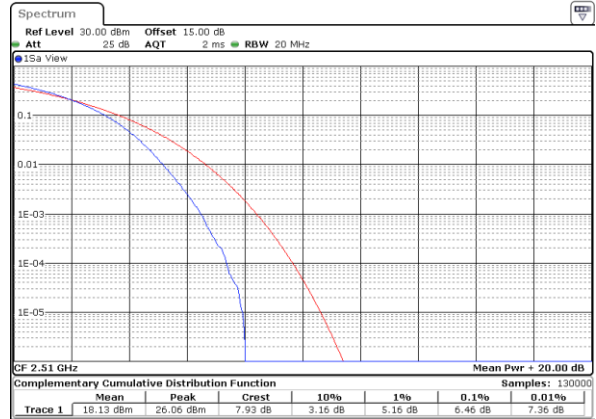
LTE Band 7 / 20MHz / 64QAM

Lowest Channel / 1RB



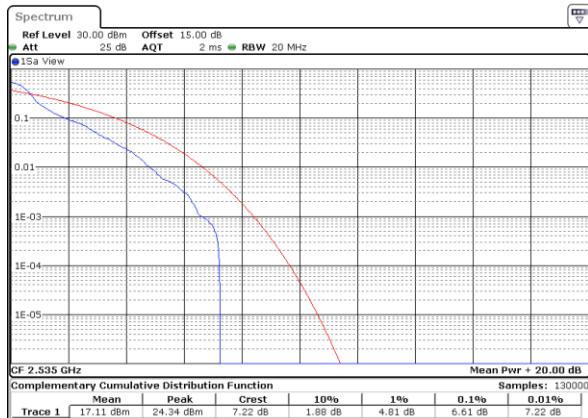
Date: 21.DEC.2020 04:03:05

Lowest Channel / Full RB



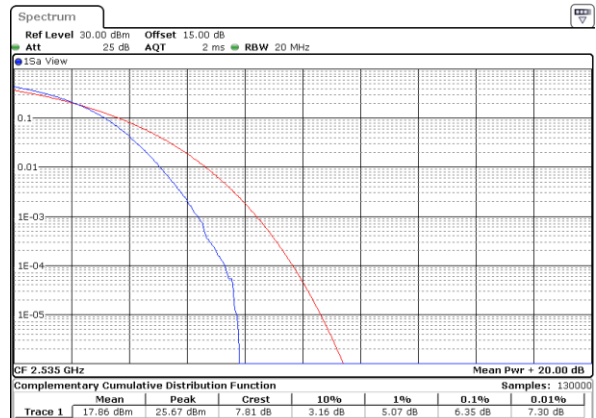
Date: 21.DEC.2020 03:57:20

Middle Channel / 1RB



Date: 21.DEC.2020 04:08:52

Middle Channel / Full RB



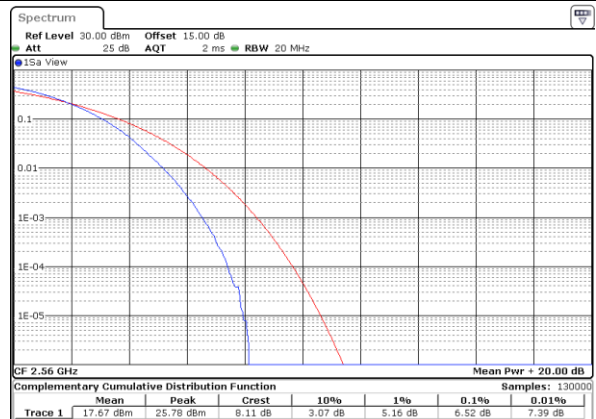
Date: 21.DEC.2020 04:15:21

Highest Channel / 1RB



Date: 21.DEC.2020 04:29:10

Highest Channel / Full RB



Date: 21.DEC.2020 04:16:19

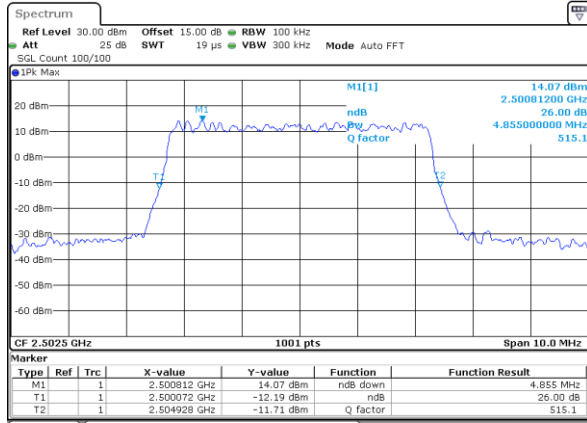
**26dB Bandwidth**

| Mode       | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -     | -     | 4.86  | 4.88  | 9.77  | 9.59  | 14.27 | 14.30 | 19.02 | 18.90 |
| Middle CH  | -                         | -     | -     | -     | 4.92  | 4.90  | 9.79  | 9.75  | 14.33 | 14.39 | 18.70 | 18.82 |
| Highest CH | -                         | -     | -     | -     | 4.88  | 4.98  | 9.77  | 9.81  | 14.30 | 14.36 | 19.02 | 18.74 |
| Mode       | LTE Band 7 : 26dB BW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                    |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                     |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                         | -     | -     | -     | 4.83  | -     | 9.63  | -     | 14.33 | -     | 18.78 | -     |
| Middle CH  | -                         | -     | -     | -     | 4.91  | -     | 9.83  | -     | 14.39 | -     | 18.86 | -     |
| Highest CH | -                         | -     | -     | -     | 4.94  | -     | 9.71  | -     | 14.39 | -     | 18.90 | -     |



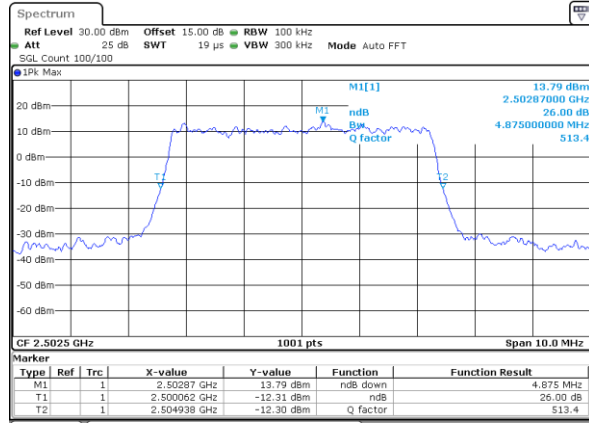
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



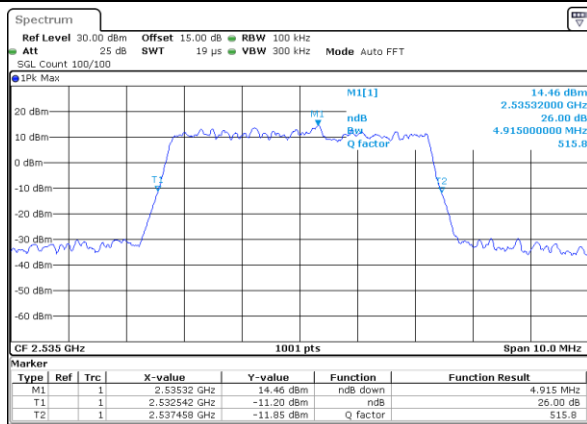
Date: 21.DEC.2020 01:48:25

## Lowest Channel / 5MHz / 16QAM



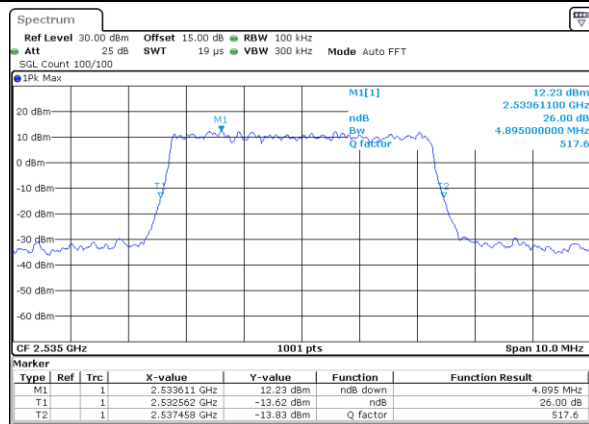
Date: 21.DEC.2020 01:49:51

## Middle Channel / 5MHz / QPSK



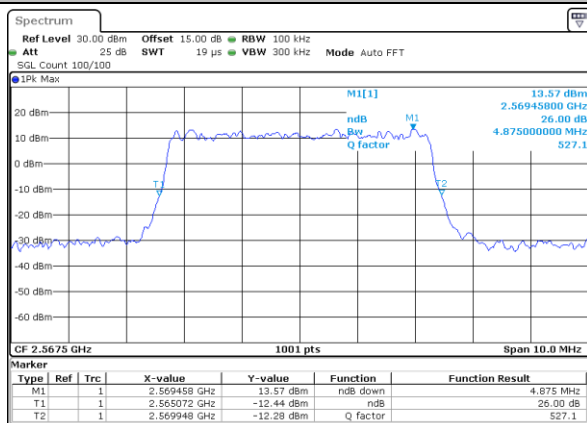
Date: 21.DEC.2020 02:09:19

## Middle Channel / 5MHz / 16QAM



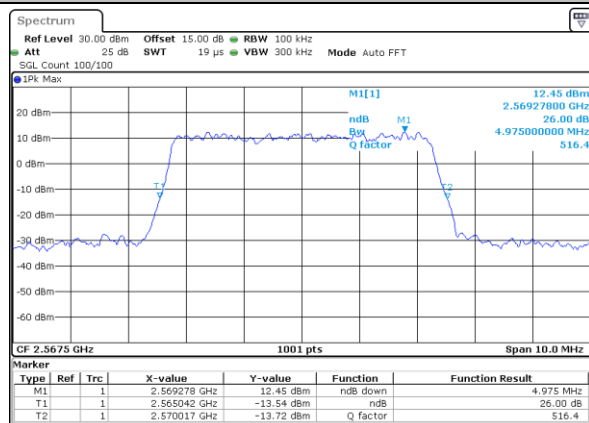
Date: 21.DEC.2020 02:08:49

## Highest Channel / 5MHz / QPSK



Date: 21.DEC.2020 02:10:17

## Highest Channel / 5MHz / 16QAM

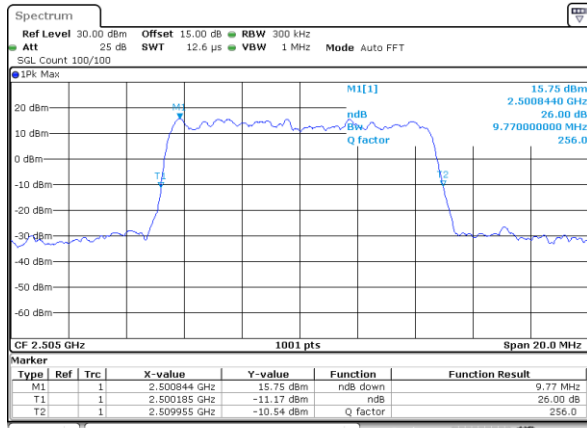


Date: 21.DEC.2020 02:10:45



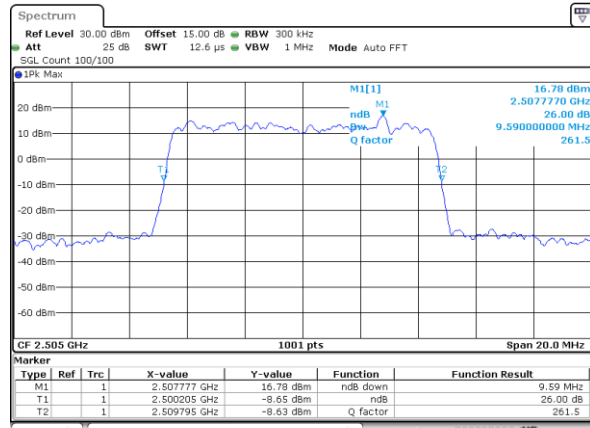
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



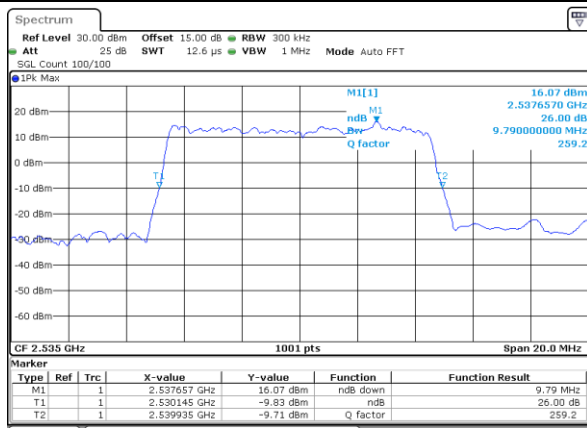
Date: 21.DEC.2020 02:34:50

## Lowest Channel / 10MHz / 16QAM



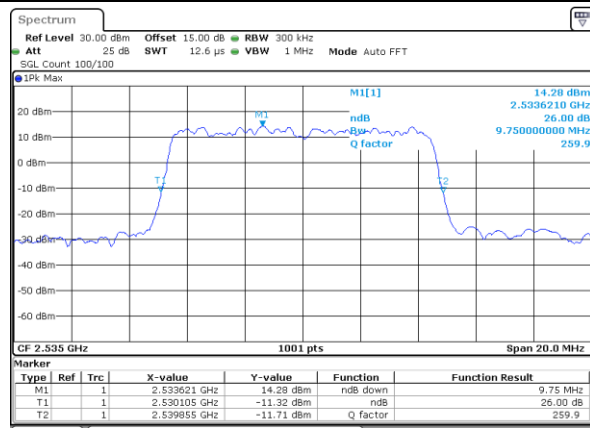
Date: 21.DEC.2020 02:36:17

## Middle Channel / 10MHz / QPSK



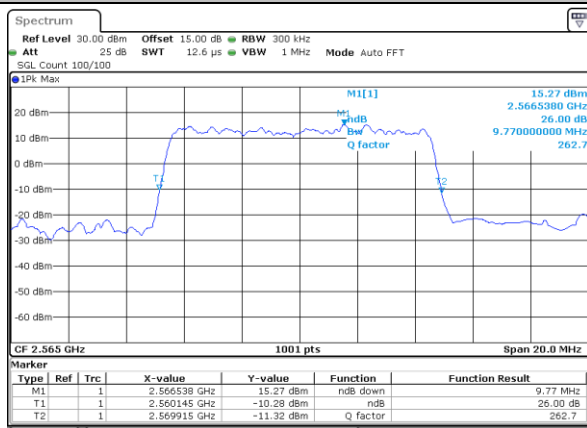
Date: 21.DEC.2020 03:00:48

## Middle Channel / 10MHz / 16QAM



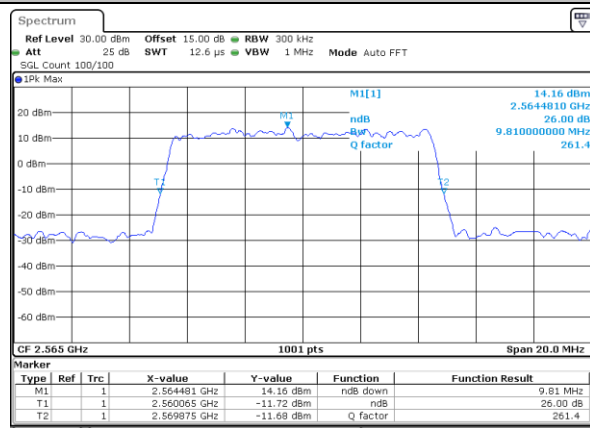
Date: 21.DEC.2020 03:00:15

## Highest Channel / 10MHz / QPSK



Date: 21.DEC.2020 03:01:49

## Highest Channel / 10MHz / 16QAM

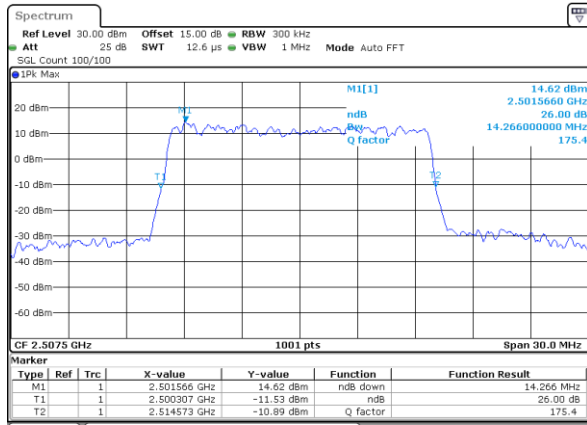


Date: 21.DEC.2020 03:02:18



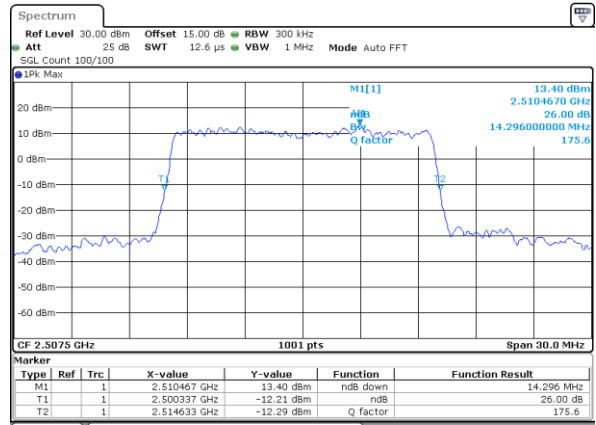
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



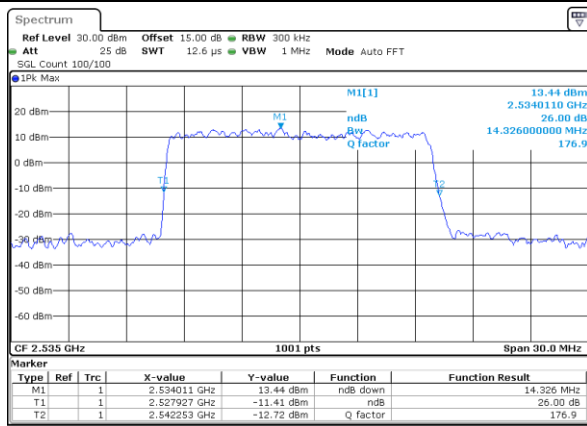
Date: 21.DEC.2020 03:15:39

## Lowest Channel / 15MHz / 16QAM



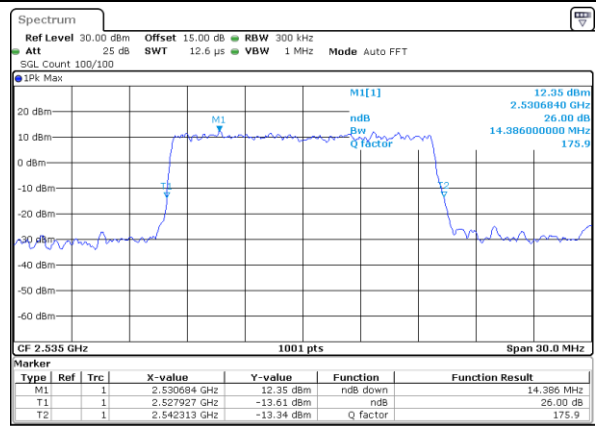
Date: 21.DEC.2020 03:16:46

## Middle Channel / 15MHz / QPSK



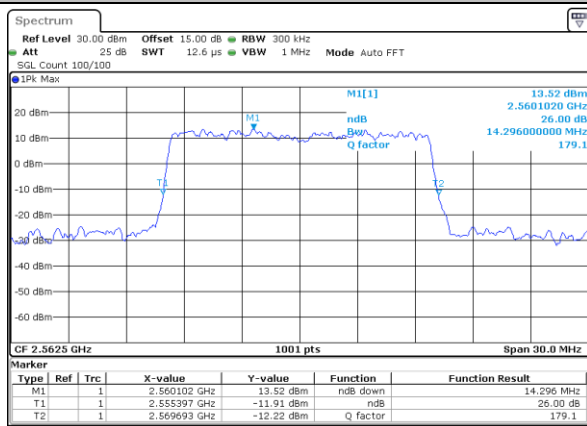
Date: 21.DEC.2020 03:34:35

## Middle Channel / 15MHz / 16QAM



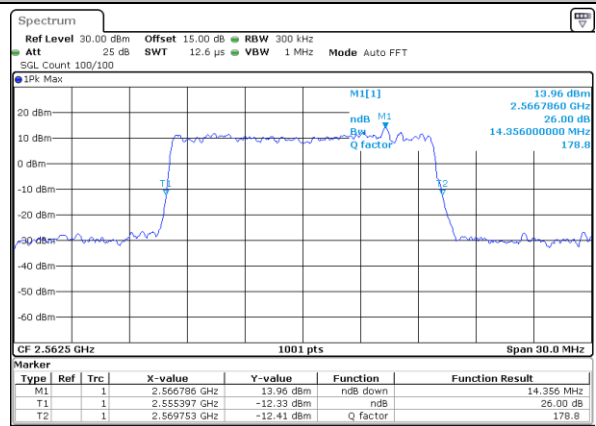
Date: 21.DEC.2020 03:33:23

## Highest Channel / 15MHz / QPSK



Date: 21.DEC.2020 03:36:12

## Highest Channel / 15MHz / 16QAM

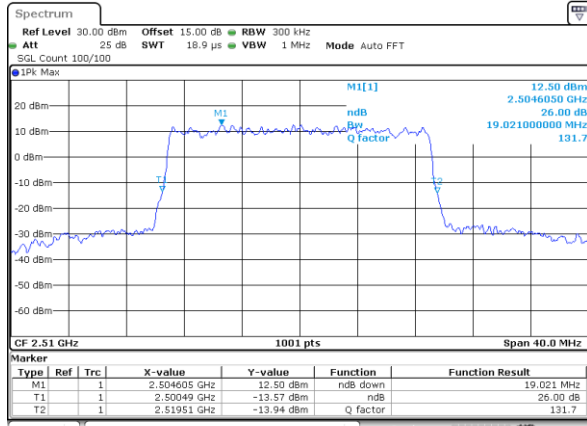


Date: 21.DEC.2020 03:37:11



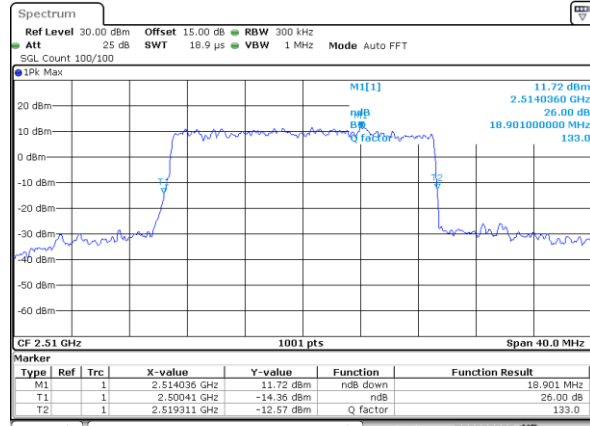
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



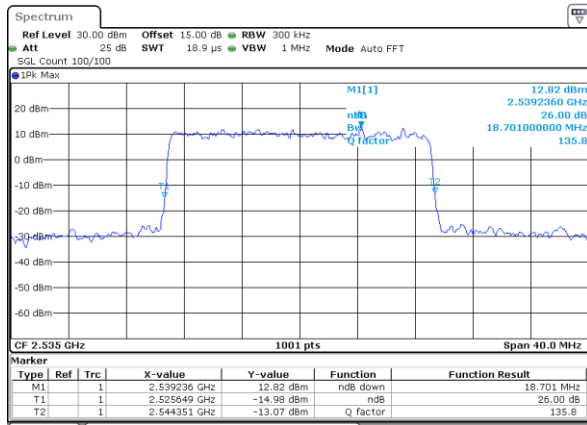
Date: 21.DEC.2020 03:52:16

## Lowest Channel / 20MHz / 16QAM



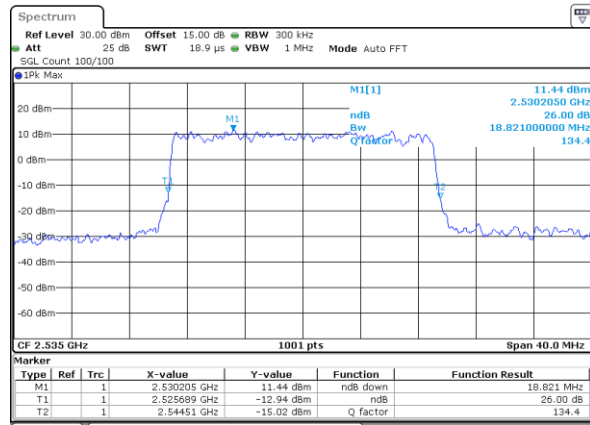
Date: 21.DEC.2020 03:53:42

## Middle Channel / 20MHz / QPSK



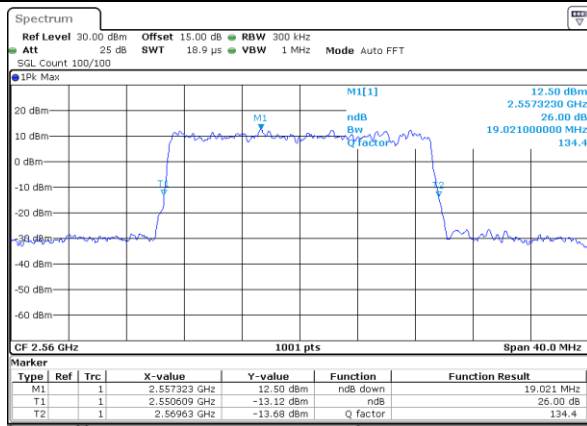
Date: 21.DEC.2020 04:14:29

## Middle Channel / 20MHz / 16QAM



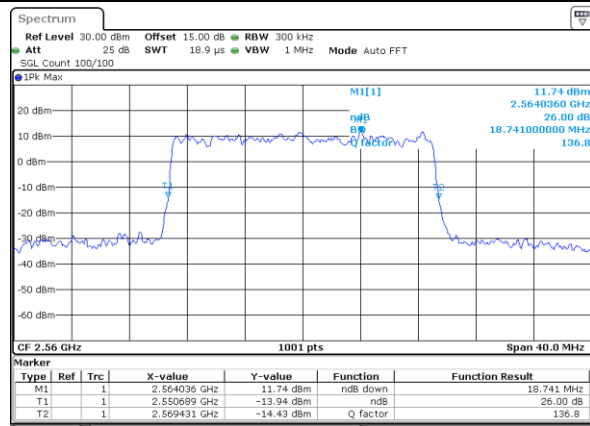
Date: 21.DEC.2020 04:15:07

## Highest Channel / 20MHz / QPSK



Date: 21.DEC.2020 04:19:30

## Highest Channel / 20MHz / 16QAM

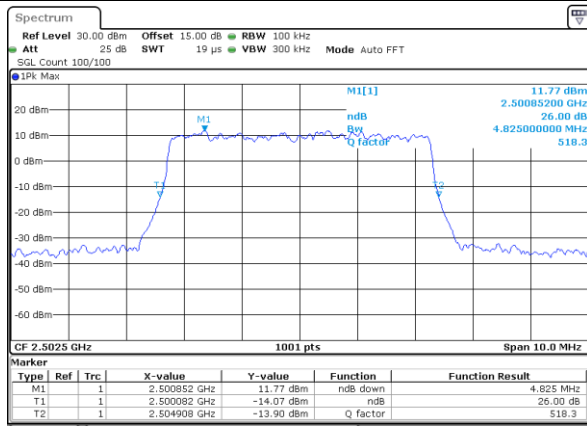


Date: 21.DEC.2020 04:18:09



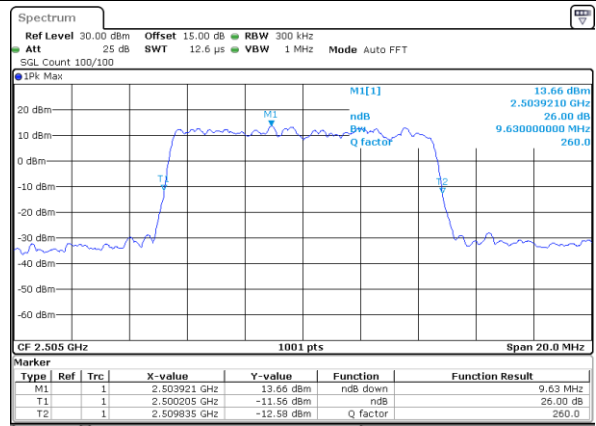
## LTE Band 7

## Lowest Channel / 5MHz / 64QAM



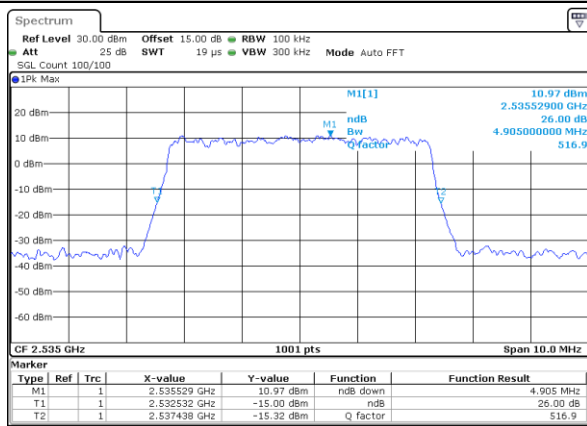
Date: 21.DEC.2020 01:52:00

## Lowest Channel / 10MHz / 64QAM



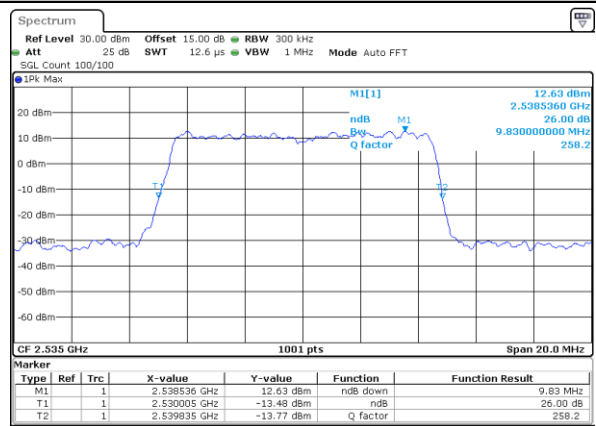
Date: 21.DEC.2020 02:17:132

## Middle Channel / 5MHz / 64QAM



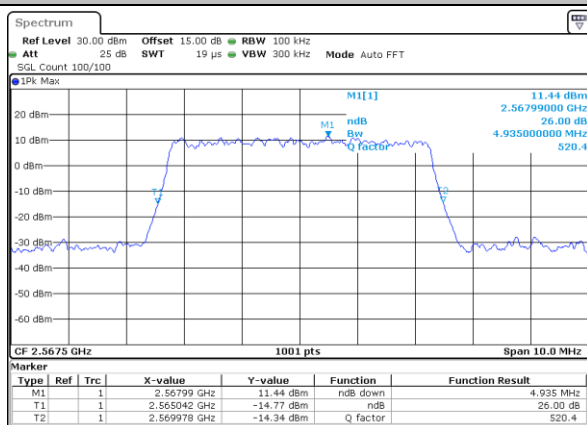
Date: 21.DEC.2020 02:08:21

## Middle Channel / 10MHz / 64QAM



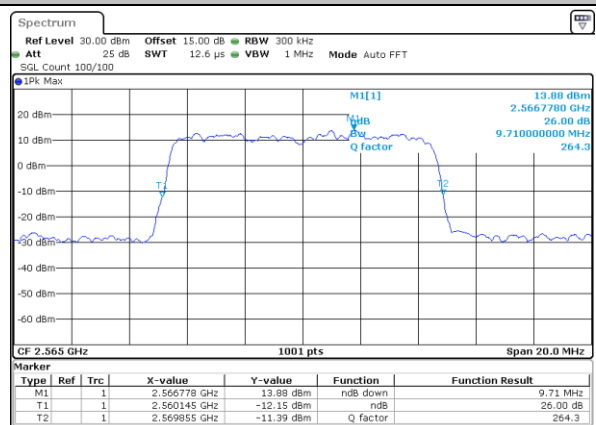
Date: 21.DEC.2020 02:15:131

## Highest Channel / 5MHz / 64QAM



Date: 21.DEC.2020 02:11:14

## Highest Channel / 10MHz / 64QAM

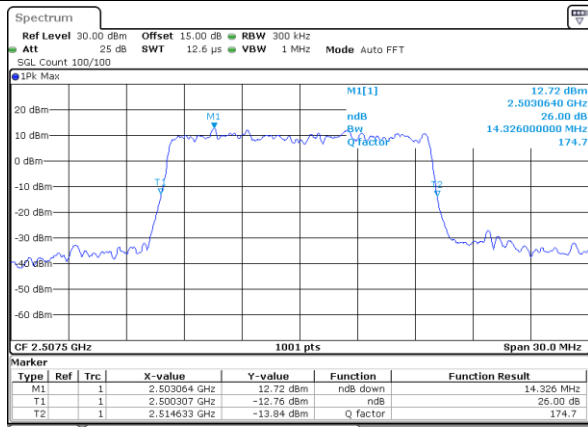


Date: 21.DEC.2020 03:02:57



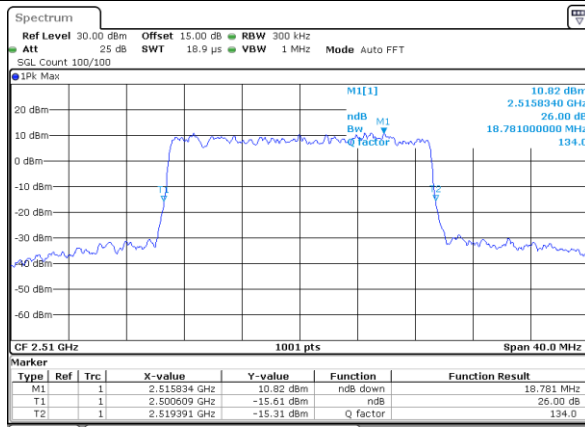
## LTE Band 7

## Lowest Channel / 15MHz / 64QAM



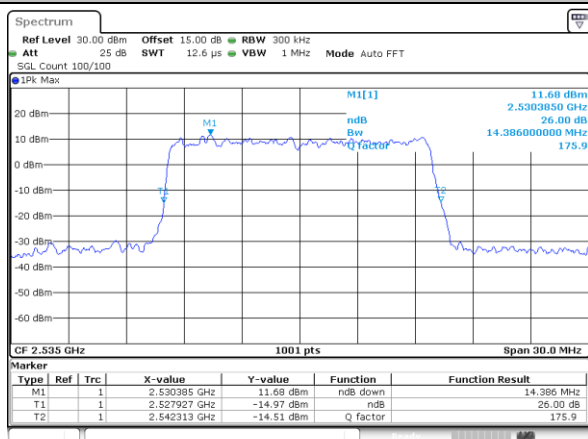
Date: 21.DEC.2020 03:18:03

## Lowest Channel / 20MHz / 64QAM



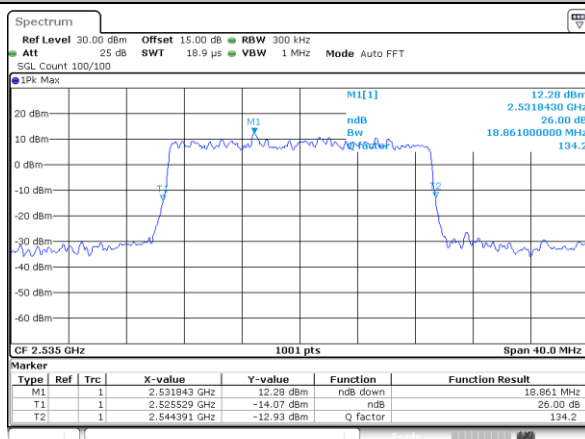
Date: 21.DEC.2020 03:55:02

## Middle Channel / 15MHz / 64QAM



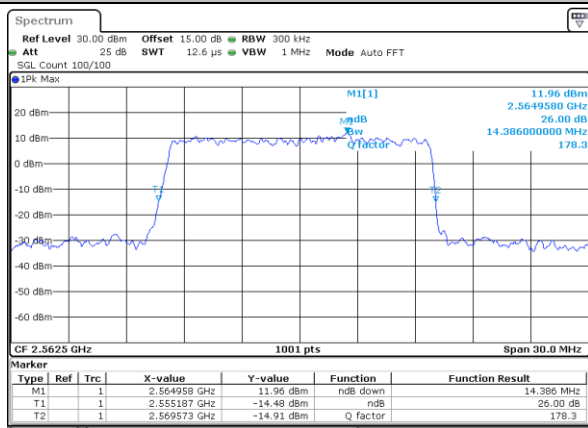
Date: 21.DEC.2020 03:32:50

## Middle Channel / 20MHz / 64QAM



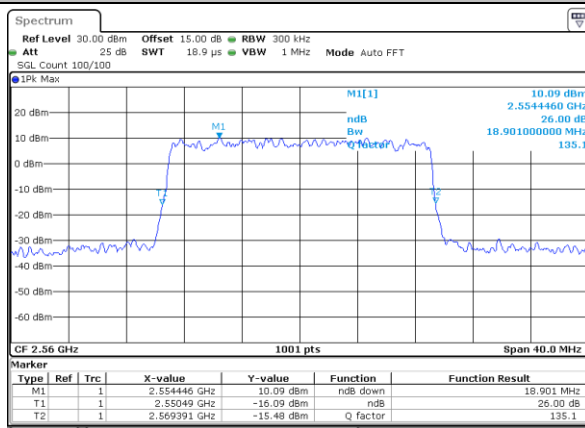
Date: 21.DEC.2020 04:15:44

## Highest Channel / 15MHz / 64QAM



Date: 21.DEC.2020 03:38:14

## Highest Channel / 20MHz / 64QAM



Date: 21.DEC.2020 04:17:11

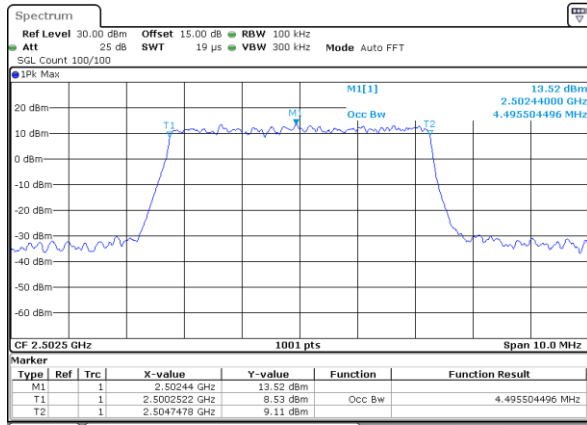
**Occupied Bandwidth**

| Mode       | LTE Band 7 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
|------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -     | -     | 4.50  | 4.50  | 9.03  | 9.07  | 13.46 | 13.40 | 17.90 | 17.90 |
| Middle CH  | -                        | -     | -     | -     | 4.50  | 4.50  | 8.99  | 9.01  | 13.46 | 13.40 | 17.94 | 17.86 |
| Highest CH | -                        | -     | -     | -     | 4.50  | 4.48  | 9.01  | 9.01  | 13.46 | 13.46 | 17.90 | 17.90 |
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |       |       |       |       |       |       |       |       |       |       |
| BW         | 1.4MHz                   |       | 3MHz  |       | 5MHz  |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | 64QAM                    |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       | 64QAM |       |
| Lowest CH  | -                        | -     | -     | -     | 4.51  | -     | 9.05  | -     | 13.46 | -     | 17.86 | -     |
| Middle CH  | -                        | -     | -     | -     | 4.49  | -     | 9.03  | -     | 13.43 | -     | 17.94 | -     |
| Highest CH | -                        | -     | -     | -     | 4.49  | -     | 9.01  | -     | 13.43 | -     | 17.82 | -     |



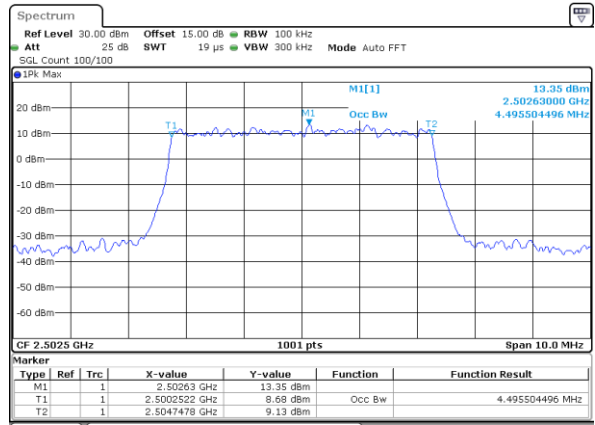
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



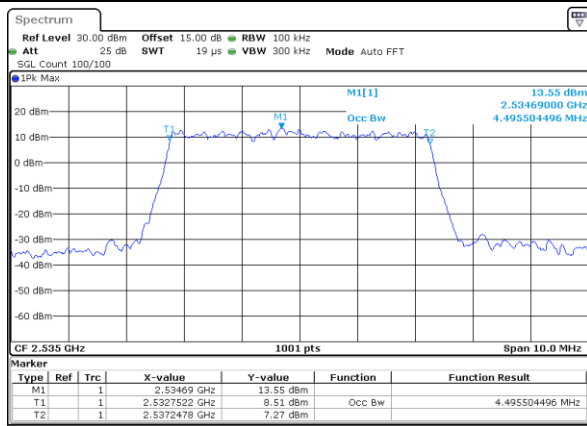
Date: 21.DEC.2020 01:48:11

## Lowest Channel / 5MHz / 16QAM



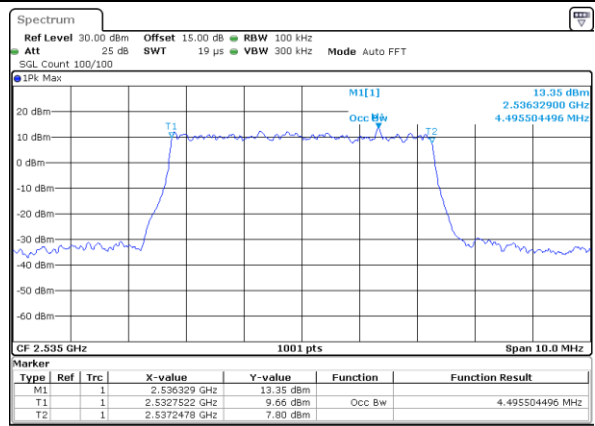
Date: 21.DEC.2020 01:49:25

## Middle Channel / 5MHz / QPSK



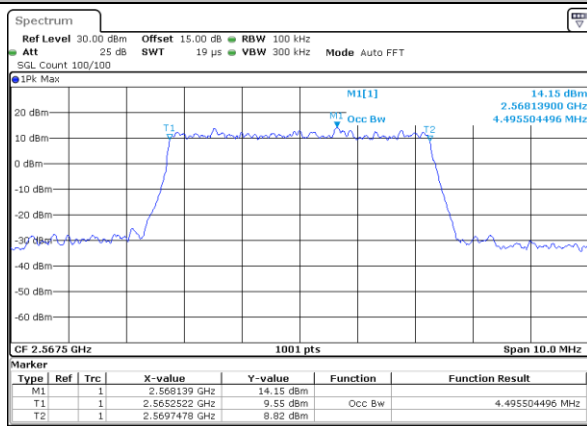
Date: 21.DEC.2020 02:09:06

## Middle Channel / 5MHz / 16QAM



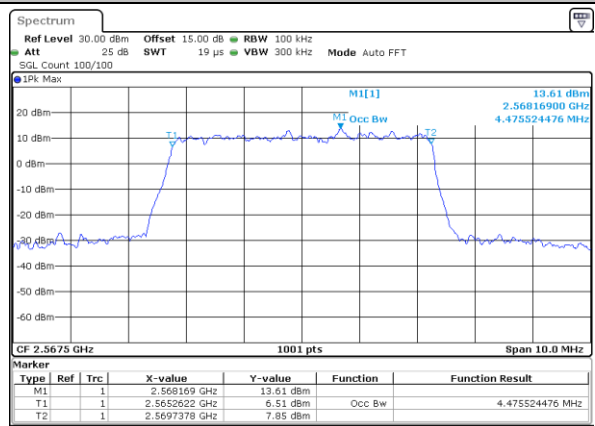
Date: 21.DEC.2020 02:08:38

## Highest Channel / 5MHz / QPSK



Date: 21.DEC.2020 02:09:58

## Highest Channel / 5MHz / 16QAM

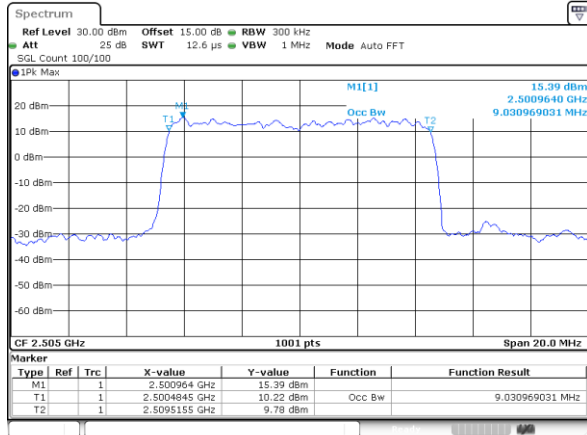


Date: 21.DEC.2020 02:10:34

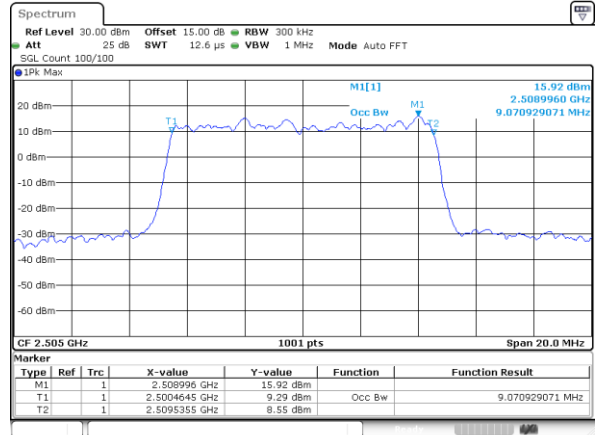


## LTE Band 7

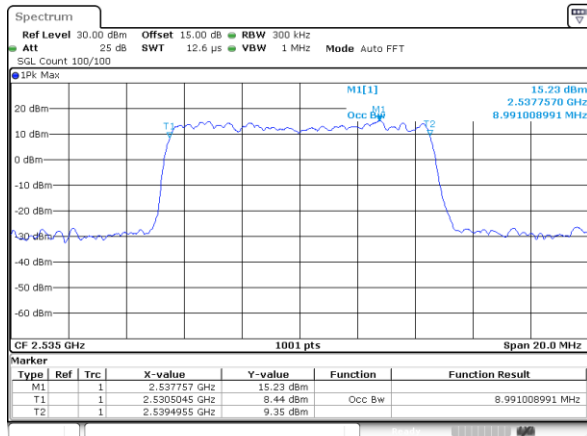
## Lowest Channel / 10MHz / QPSK



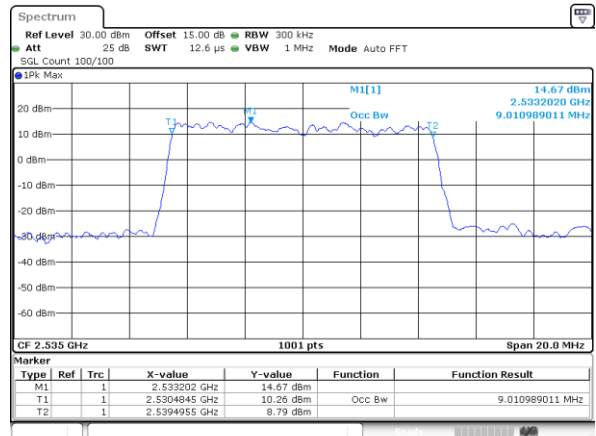
## Lowest Channel / 10MHz / 16QAM



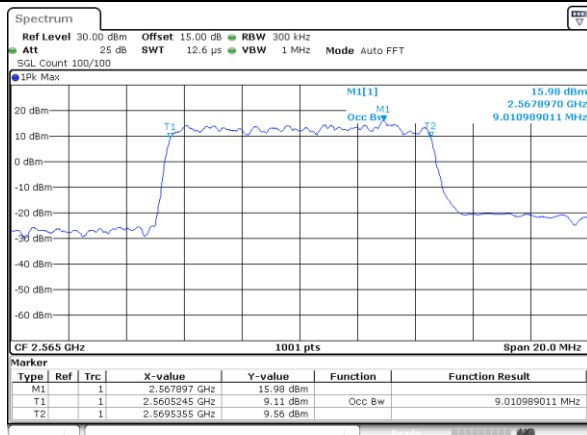
## Middle Channel / 10MHz / QPSK



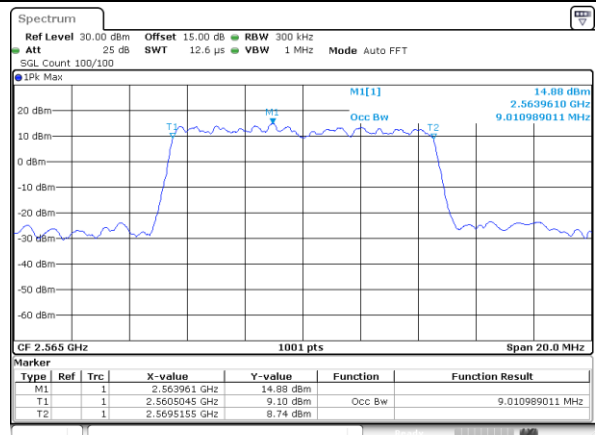
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



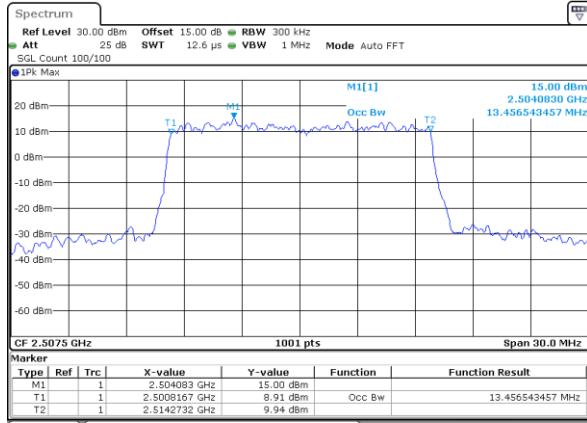
## Highest Channel / 10MHz / 16QAM





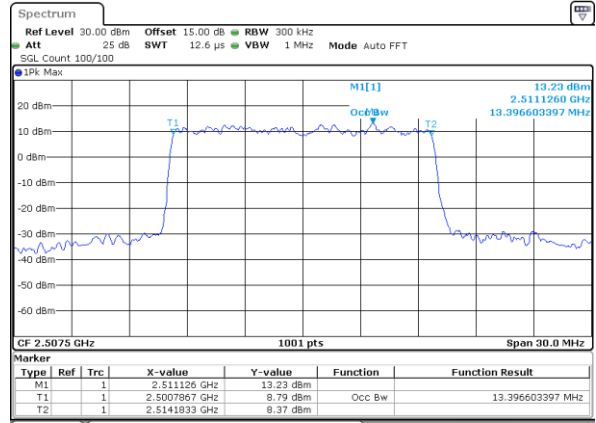
## LTE Band 7

## Lowest Channel / 15MHz / QPSK



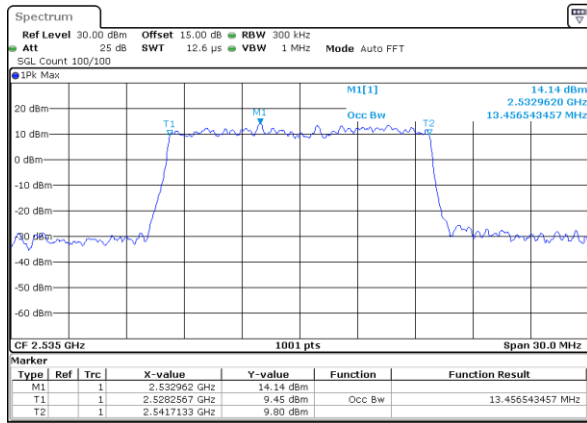
Date: 21.DEC.2020 03:15:20

## Lowest Channel / 15MHz / 16QAM



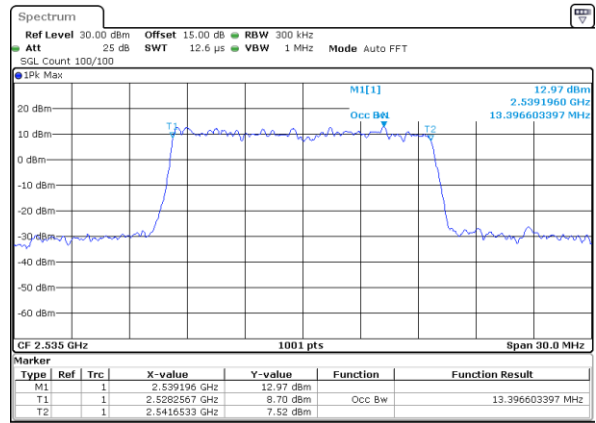
Date: 21.DEC.2020 03:16:31

## Middle Channel / 15MHz / QPSK



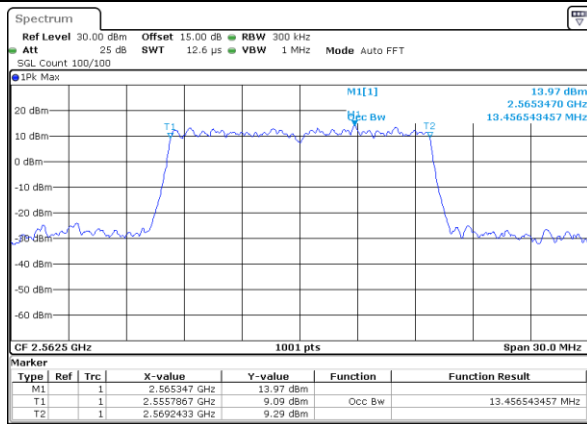
Date: 21.DEC.2020 03:34:15

## Middle Channel / 15MHz / 16QAM



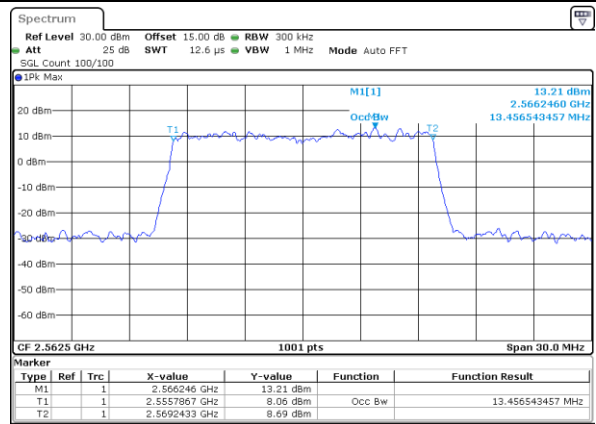
Date: 21.DEC.2020 03:33:09

## Highest Channel / 15MHz / QPSK



Date: 21.DEC.2020 03:35:59

## Highest Channel / 15MHz / 16QAM

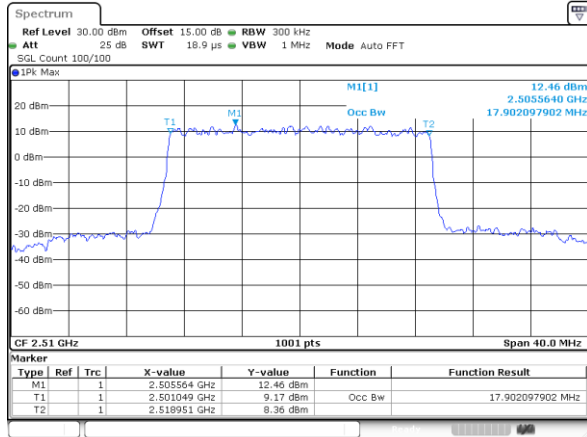


Date: 21.DEC.2020 03:36:53

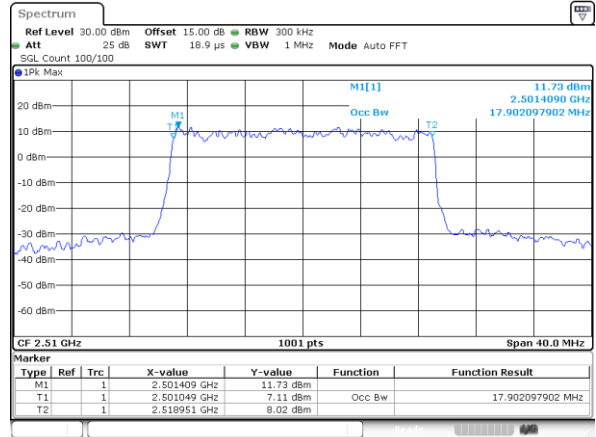


## LTE Band 7

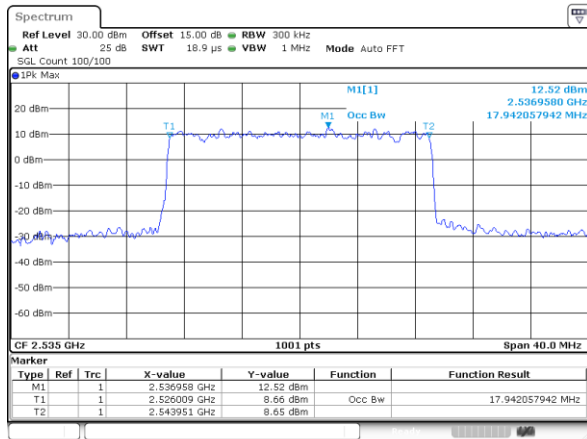
## Lowest Channel / 20MHz / QPSK



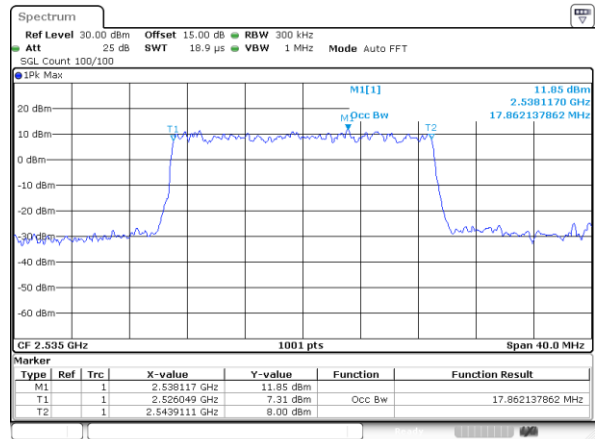
## Lowest Channel / 20MHz / 16QAM



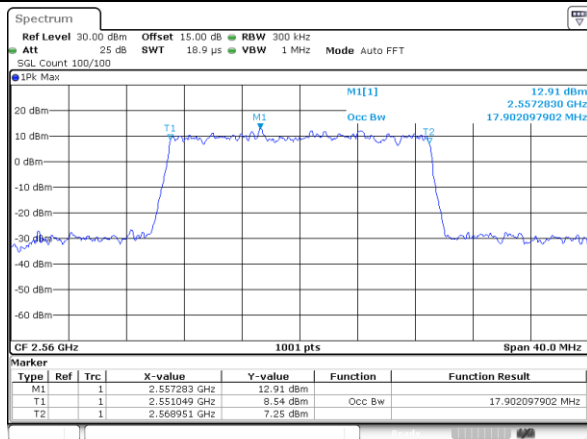
## Middle Channel / 20MHz / QPSK



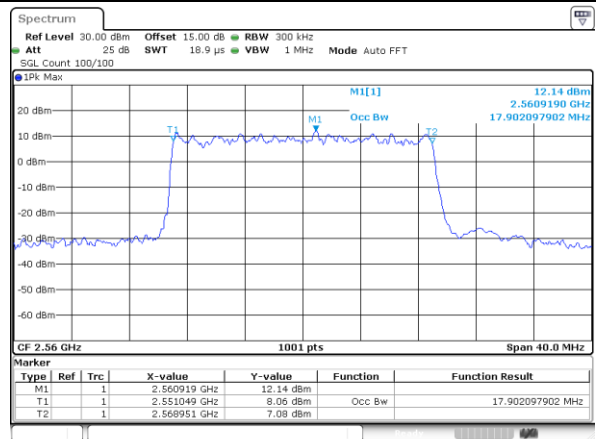
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



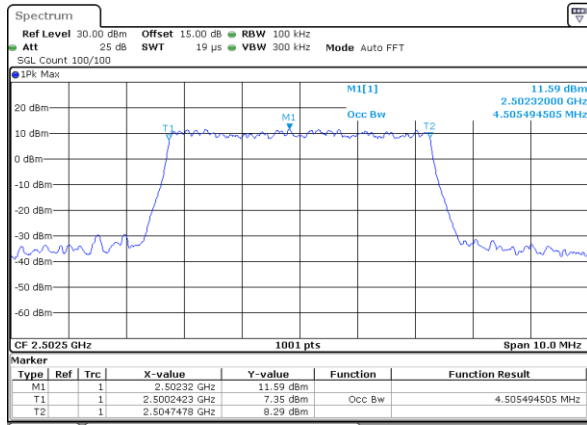
## Highest Channel / 20MHz / 16QAM



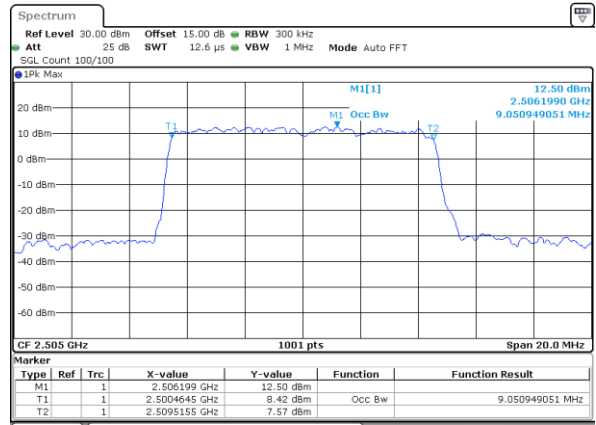


## LTE Band 7

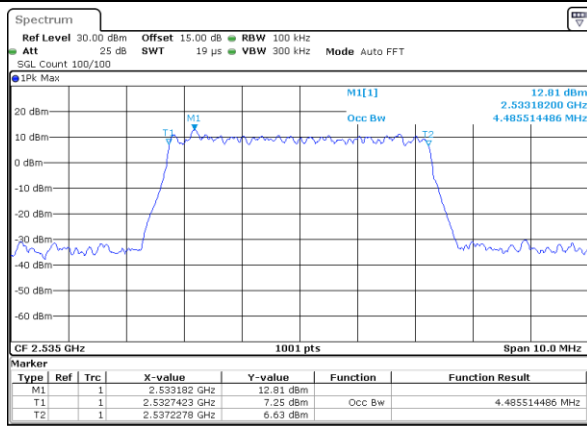
## Lowest Channel / 5MHz / 64QAM



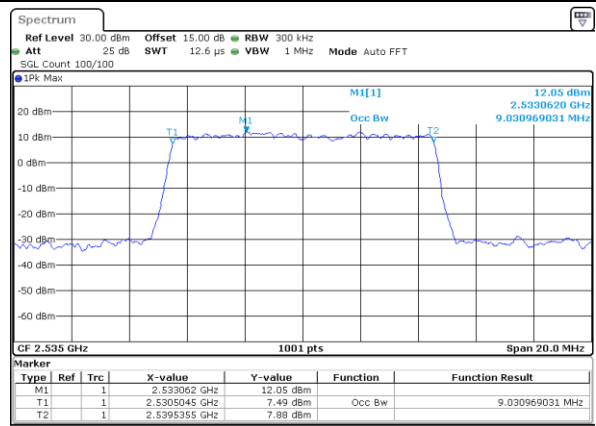
## Lowest Channel / 10MHz / 64QAM



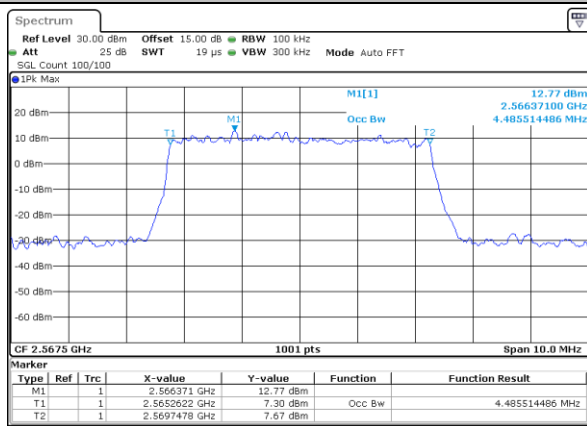
## Middle Channel / 5MHz / 64QAM



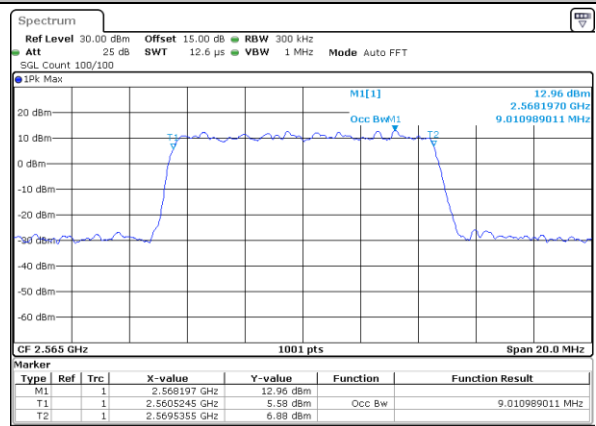
## Middle Channel / 10MHz / 64QAM



## Highest Channel / 5MHz / 64QAM



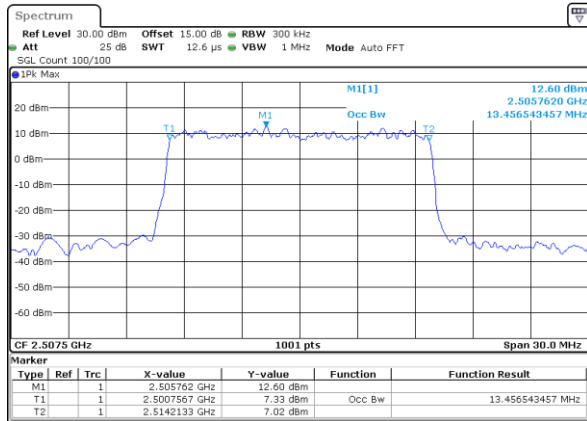
## Highest Channel / 10MHz / 64QAM





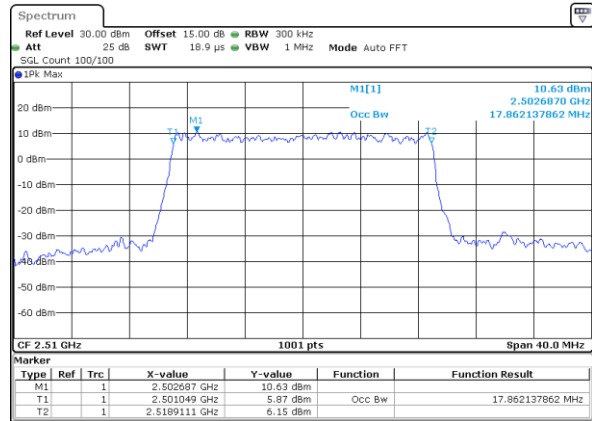
## LTE Band 7

## Lowest Channel / 15MHz / 64QAM



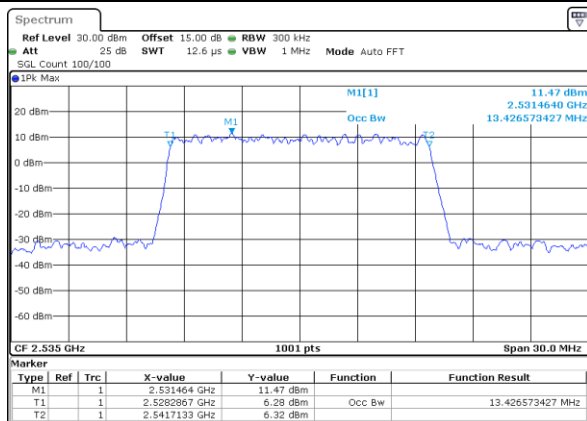
Date: 21.DEC.2020 03:17:37

## Lowest Channel / 20MHz / 64QAM



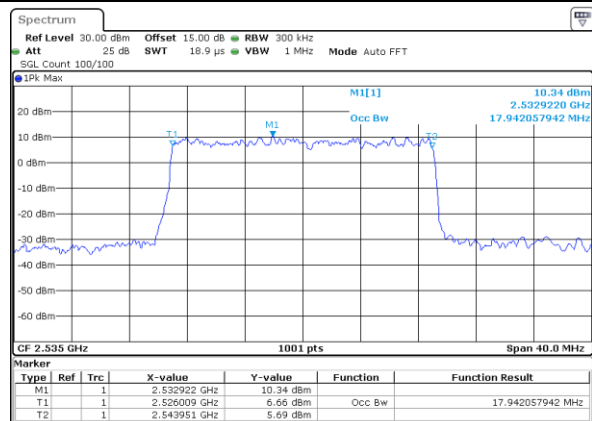
Date: 21.DEC.2020 03:54:49

## Middle Channel / 15MHz / 64QAM



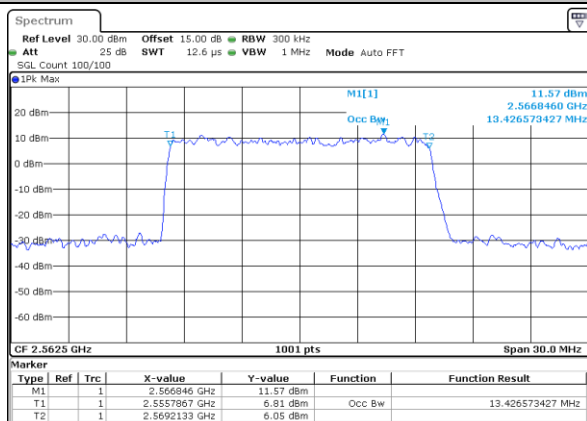
Date: 21.DEC.2020 03:32:37

## Middle Channel / 20MHz / 64QAM



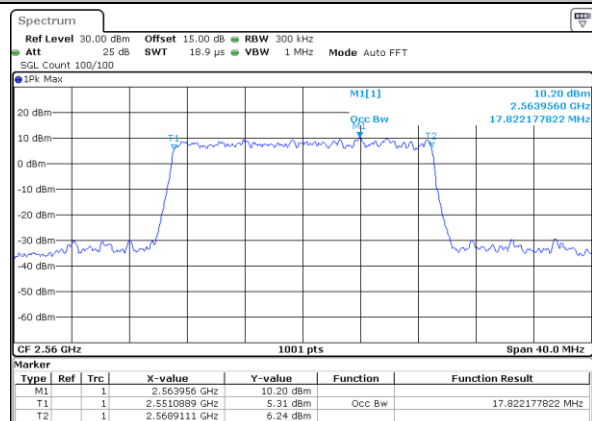
Date: 21.DEC.2020 04:15:32

## Highest Channel / 15MHz / 64QAM



Date: 21.DEC.2020 03:38:04

## Highest Channel / 20MHz / 64QAM



Date: 21.DEC.2020 04:17:01

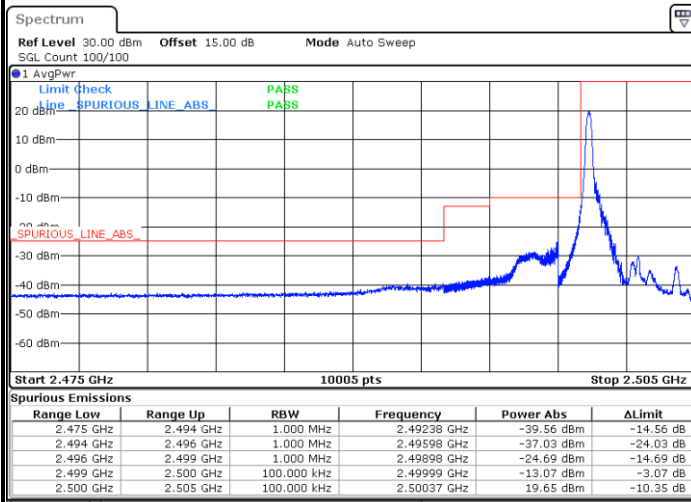


## **Conducted Band Edge**

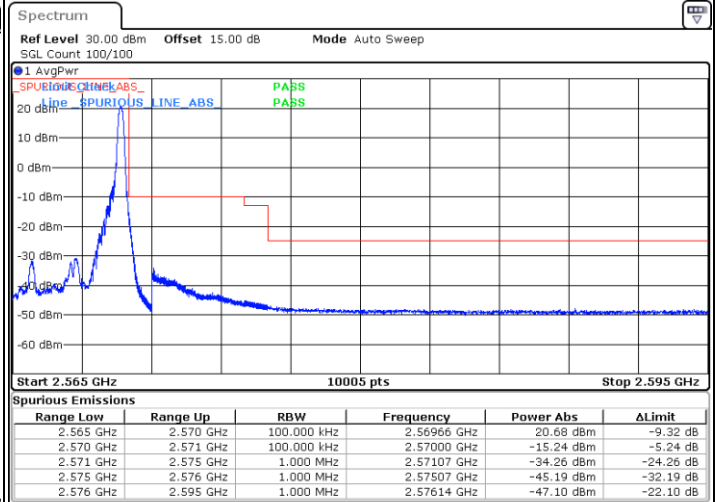


## LTE Band 7 / 5MHz / QPSK

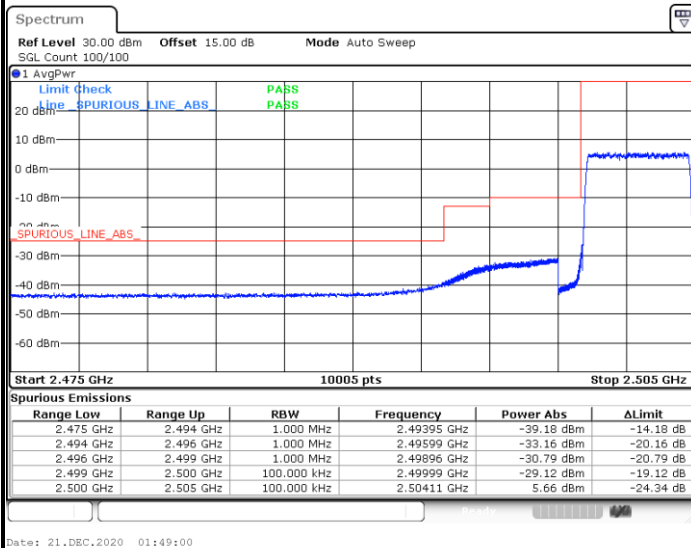
## Lowest Band Edge / 1 RB



## Highest Band Edge / 1 RB



## Lowest Band Edge / Full RB



## Highest Band Edge / Full RB

