



# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : XT1980-3  
FCC ID : IHDT56XS2  
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F) ,  
27(H), 27(N)  
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 28, 2018 and completely tested on Feb. 21, 2019. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

**Sporton International (Kunshan) Inc.**  
**No. 1098, Pengxi North Road, Kunshan Economic Development Zone,**  
**Jiangsu Province 215335, China**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FG8D2801B  | Rev. 01 | Initial issue of report | Feb. 27, 2019 |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule                                                                         | Description                                                                                                                                  | Limit                               | Result | Remark |
|----------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------|--------|
| 3.4            | §2.1046                                                                          | Conducted Output Power                                                                                                                       | Reporting Only                      | PASS   | -      |
|                | §22.913(a)(5)                                                                    | Effective Radiated Power<br>(Band 5) (Band 26)                                                                                               | ERP < 7 Watt                        | 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   | -      |
|                | §24.232(c)<br>§27.50(h)(2)                                                       | Equivalent Isotropic Radiated Power<br>(Band 2) (Band 25)<br>(Band 7) (Band 38) (Band 41)                                                    | EIRP < 2Watt                        | PASS   | -      |
|                | §27.50(d)(4)                                                                     | Equivalent Isotropic Radiated Power<br>(Band 4) (Band 66)                                                                                    | EIRP < 1Watt                        | PASS   | -      |
| 3.5            | §24.232(d)                                                                       | Peak-to-Average Ratio                                                                                                                        | <13 dB                              | PASS   | -      |
| 3.6            | §2.1049                                                                          | Occupied Bandwidth                                                                                                                           | Reporting Only                      | PASS   | -      |
| 3.7            | §2.1051<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)(4)<br>§27.53(g)<br>§27.53(h) | Conducted Band Edge Measurement<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 17)<br>(Band 25) (Band 26) (Band 66)<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>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(g)<br>§27.53(h)    | Conducted Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 17)<br>(Band 25) (Band 26) (Band 66)<br>(Band 71)     | < 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>§22.355                                                               | Frequency Stability<br>Temperature & Voltage                                                                                                 | < 2.5 ppm for Part 22H              | PASS   | -      |
|                | §2.1055<br>§24.235<br>§27.54                                                     |                                                                                                                                              | Within Authorized Band              |        |        |



| Report Section | FCC Rule                                                                                   | Description                                                                                                                             | Limit                                 | Result | Remark                                    |
|----------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------|-------------------------------------------|
| 4.4            | §2.1053<br>§22.917(a)<br>§24.238(a)<br>§27.53(c)(2)<br>§27.53(f)<br>§27.53(g)<br>§27.53(h) | Radiated Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 17)<br>(Band 25) (Band 26) (Band 66)<br>(Band 71) | $< 43 + 10\log_{10}(P[\text{Watts}])$ | PASS   | Under limit<br>16.64 dB at<br>5000.00 MHz |
|                | §2.1053<br>§27.53(m)(4)                                                                    | Radiated Spurious Emission<br>(Band 7) (Band 38) (Band 41)                                                                              | $< 55 + 10\log_{10}(P[\text{Watts}])$ |        |                                           |



# 1 General Description

## 1.1 Applicant

**Motorola Mobility LLC**

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

**Motorola Mobility LLC**

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                                                                               |
| Brand Name                      | Motorola                                                                                                                                                                                                                                            |
| Model Name                      | XT1980-3                                                                                                                                                                                                                                            |
| FCC ID                          | IHDT56XS2                                                                                                                                                                                                                                           |
| EUT supports Radios application | CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/<br>DC-HSDPA/HSPA+(16QAM is not supported)/LTE<br>WLAN 2.4GHz 802.11b/g/n HT20/HT40<br>WLAN 5GHz 802.11a/n HT20/HT40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80<br>Bluetooth BR / EDR / LE<br>NFC/GNSS/FM Receiver |
| IMEI Code                       | Conducted: 352156100008097<br>Radiation: 352156100008246/352156100008210                                                                                                                                                                            |
| HW Version                      | DVT2                                                                                                                                                                                                                                                |
| SW Version                      | PPF29.58                                                                                                                                                                                                                                            |
| EUT Stage                       | Identical Prototype                                                                                                                                                                                                                                 |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5 : 824.7 MHz ~ 848.3 MHz<br>LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz<br>LTE Band 12 : 699.7 MHz ~ 715.3 MHz<br>LTE Band 13 : 779.5 MHz ~ 784.5 MHz<br>LTE Band 17 : 706.5 MHz ~ 713.5 MHz<br>LTE Band 25 : 1850.7MHz ~ 1914.3 MHz<br>LTE Band 26 : 824.7MHz ~ 848.3 MHz<br>LTE Band 38 : 2572.5MHz ~ 2617.5MHz<br>LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz<br>LTE Band 71: 665.5 MHz ~ 695.5MHz                                                                                                                           |
| <b>Rx Frequency</b>                     | LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 5 : 869.7 MHz ~ 893.3 MHz<br>LTE Band 7 : 2622.5MHz ~ 2687.5 MHz<br>LTE Band 12 : 729.7 MHz ~ 745.3 MHz<br>LTE Band 13 : 748.5 MHz ~ 753.5 MHz<br>LTE Band 17 : 736.5 MHz ~ 743.5 MHz<br>LTE Band 25 : 1930.7MHz ~ 1994.3 MHz<br>LTE Band 26 : 869.7MHz ~ 893.3MHz<br>LTE Band 38 : 2572.5MHz ~ 2617.5MHz<br>LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66 : 2110.7 MHz~ 2199.3 MHz<br>LTE Band 71: 619.5 MHz ~ 649.5MHz                                                                                                                              |
| <b>Bandwidth</b>                        | LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz<br>LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13 : 5MHz / 10MHz<br>LTE Band 17 : 5MHz / 10MHz<br>LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz<br>LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz |
| <b>Maximum Output Power to Antenna</b>  | LTE Band 2 : 23.30 dBm<br>LTE Band 4 : 23.00 dBm<br>LTE Band 5 : 23.04 dBm; Band 5B_CA: 23.60 dBm<br>LTE Band 7 : 22.82 dBm<br>LTE Band 13 : 22.85 dBm<br>LTE Band 12 : 22.86 dBm<br>LTE Band 17 : 22.85 dBm<br>LTE Band 25 : 23.41 dBm<br>LTE Band 26 : 23.05 dBm<br>LTE Band 38 : 22.65 dBm<br>LTE Band 41 : 26.62 dBm; Band 41C_CA: 23.55 dBm                                                                                                                                                                                                                                                                                                      |



|                           |                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | LTE Band 66 : 23.02 dBm<br>LTE Band 71 : 23.33 dBm                                                                                                                                                                                                                                                                                                 |
| <b>Antenna Gain</b>       | LTE Band 2 : -1.00 dBi<br>LTE Band 4 : 1.00 dBi<br>LTE Band 5 : -3.00 dBi<br>LTE Band 7 : 1.00 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 25 : -1.00 dBi<br>LTE Band 26 : -3.00 dBi<br>LTE Band 38 : 1.00 dBi<br>LTE Band 41 : 1.00 dBi<br>LTE Band 66 : 1.00 dBi<br>LTE Band 71 : -4.00 dBi |
| <b>Type of Modulation</b> | QPSK / 16QAM / 64QAM                                                                                                                                                                                                                                                                                                                               |

## 1.5 Modification of EUT

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





## 1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

| LTE Band 2/25 |                       | QPSK                         |                           |                           | 16QAM                        |                           |                 |
|---------------|-----------------------|------------------------------|---------------------------|---------------------------|------------------------------|---------------------------|-----------------|
| BW (MHz)      | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W)           | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4           | 1850.7 ~ 1914.3       | 1M10G7D                      | -                         | 0.1618                    | 1M09W7D                      | -                         | 0.1396          |
| 3             | 1851.5 ~ 1913.5       | 2M72G7D                      | -                         | 0.1618                    | 2M73W7D                      | -                         | 0.1413          |
| 5             | 1852.5 ~ 1912.5       | 4M51G7D                      | -                         | 0.1644                    | 4M52W7D                      | -                         | 0.1442          |
| 10            | 1855.0 ~ 1910.0       | 9M15G7D                      | 0.0028                    | 0.1738                    | 9M05W7D                      | -                         | 0.1496          |
| 15            | 1857.5 ~ 1907.5       | 13M5G7D                      | -                         | 0.1675                    | 13M5W7D                      | -                         | 0.1459          |
| 20            | 1860.0 ~ 1905.0       | 18M4G7D                      | -                         | 0.1742                    | 18M5W7D                      | -                         | 0.1510          |
| LTE Band 2/25 |                       | 64QAM                        |                           |                           |                              |                           |                 |
| BW (MHz)      | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum EIRP(W)           |                 |
| 1.4           | 1850.7 ~ 1914.3       | 1M09W7D                      |                           | -                         |                              | 0.1169                    |                 |
| 3             | 1851.5 ~ 1913.5       | 2M74W7D                      |                           | -                         |                              | 0.1146                    |                 |
| 5             | 1852.5 ~ 1912.5       | 4M54W7D                      |                           | -                         |                              | 0.1148                    |                 |
| 10            | 1855.0 ~ 1910.0       | 9M05W7D                      |                           | -                         |                              | 0.1202                    |                 |
| 15            | 1857.5 ~ 1907.5       | 13M5W7D                      |                           | -                         |                              | 0.1153                    |                 |
| 20            | 1860.0 ~ 1905.0       | 18M5W7D                      |                           | -                         |                              | 0.1197                    |                 |
| LTE Band 7    |                       | QPSK                         |                           |                           | 16QAM                        |                           |                 |
| BW (MHz)      | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W)           | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5             | 2502.5 ~ 2567.5       | 4M51G7D                      | -                         | 0.2382                    | 4M51W7D                      | -                         | 0.2128          |
| 10            | 2505.0 ~ 2565.0       | 9M05G7D                      | 0.0023                    | 0.2382                    | 9M03W7D                      | -                         | 0.2099          |
| 15            | 2507.5 ~ 2562.5       | 13M5G7D                      | -                         | 0.2393                    | 13M5W7D                      | -                         | 0.2099          |
| 20            | 2510.0 ~ 2560.0       | 18M4G7D                      | -                         | 0.2410                    | 18M5W7D                      | -                         | 0.2094          |
| LTE Band 7    |                       | 64QAM                        |                           |                           |                              |                           |                 |
| BW (MHz)      | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum EIRP(W)           |                 |
| 5             | 2502.5 ~ 2567.5       | 4M51W7D                      |                           | -                         |                              | 0.1871                    |                 |
| 10            | 2505.0 ~ 2565.0       | 9M07W7D                      |                           | -                         |                              | 0.1803                    |                 |
| 15            | 2507.5 ~ 2562.5       | 13M4W7D                      |                           | -                         |                              | 0.1803                    |                 |
| 20            | 2510.0 ~ 2560.0       | 18M4W7D                      |                           | -                         |                              | 0.1795                    |                 |



| LTE Band 12/17 |                       | QPSK                         |                           |                           | 16QAM                        |                           |                |
|----------------|-----------------------|------------------------------|---------------------------|---------------------------|------------------------------|---------------------------|----------------|
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)            | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4            | 699.7 ~ 715.3         | 1M09G7D                      | -                         | 0.0573                    | 1M10W7D                      | -                         | 0.0489         |
| 3              | 700.5 ~ 714.5         | 2M73G7D                      | -                         | 0.0573                    | 2M72W7D                      | -                         | 0.0501         |
| 5              | 701.5 ~ 713.5         | 4M52G7D                      | -                         | 0.0575                    | 4M51W7D                      | -                         | 0.0498         |
| 10             | 704.0 ~ 711.0         | 9M11G7D                      | 0.0112                    | 0.0590                    | 9M05W7D                      | -                         | 0.0570         |
| LTE Band 12/17 |                       | 64QAM                        |                           |                           |                              |                           |                |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum ERP(W)            |                |
| 1.4            | 699.7 ~ 715.3         | 1M09W7D                      |                           | -                         |                              | 0.0437                    |                |
| 3              | 700.5 ~ 714.5         | 2M73W7D                      |                           | -                         |                              | 0.0440                    |                |
| 5              | 701.5 ~ 713.5         | 4M50W7D                      |                           | -                         |                              | 0.0440                    |                |
| 10             | 704.0 ~ 711.0         | 9M07W7D                      |                           | -                         |                              | 0.0442                    |                |
| LTE Band 13    |                       | QPSK                         |                           |                           | 16QAM                        |                           |                |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)            | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 5              | 779.5 ~ 784.5         | 4M51G7D                      | -                         | 0.0581                    | 4M50W7D                      | -                         | 0.0506         |
| 10             | 782.0                 | 9M03G7D                      | 0.0065                    | 0.0589                    | 8M97W7D                      | -                         | 0.0489         |
| LTE Band 13    |                       | 64QAM                        |                           |                           |                              |                           |                |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum ERP(W)            |                |
| 5              | 779.5 ~ 784.5         | 4M50W7D                      |                           | -                         |                              | 0.0444                    |                |
| 10             | 782.0                 | 8M97W7D                      |                           | -                         |                              | 0.0439                    |                |
| LTE Band 5/26  |                       | QPSK                         |                           |                           | 16QAM                        |                           |                |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)            | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W) |
| 1.4            | 824.7 ~ 848.3         | 1M09G7D                      | -                         | 0.0507                    | 1M09W7D                      | -                         | 0.0428         |
| 3              | 825.5 ~ 847.5         | 2M73G7D                      | -                         | 0.0568                    | 2M73W7D                      | -                         | 0.0485         |
| 5              | 826.5 ~ 846.5         | 4M50G7D                      | -                         | 0.0585                    | 4M52W7D                      | -                         | 0.0507         |
| 10             | 829.0 ~ 844.0         | 9M09G7D                      | 0.0087                    | 0.0589                    | 9M03W7D                      | -                         | 0.0513         |
| 15             | 831.5 ~ 841.5         | 13M5G7D                      | -                         | 0.0617                    | 13M5W7D                      | -                         | 0.0515         |
| CH26765        | 821.5                 | 13M5G7D                      | -                         | 0.0585                    | 13M4W7D                      | -                         | 0.0507         |



| LTE Band 5/26  |                       | 64QAM                        |                           |                           |                              |                           |                 |
|----------------|-----------------------|------------------------------|---------------------------|---------------------------|------------------------------|---------------------------|-----------------|
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum ERP(W)            |                 |
| 1.4            | 824.7 ~ 848.3         | 1M09W7D                      |                           | -                         |                              | 0.0418                    |                 |
| 3              | 825.5 ~ 847.5         | 2M75W7D                      |                           | -                         |                              | 0.0419                    |                 |
| 5              | 826.5 ~ 846.5         | 4M51W7D                      |                           | -                         |                              | 0.0454                    |                 |
| 10             | 829.0 ~ 844.0         | 9M09W7D                      |                           | -                         |                              | 0.0456                    |                 |
| 15             | 831.5 ~ 841.5         | 13M5W7D                      |                           | -                         |                              | 0.0457                    |                 |
| CH26765        | 821.5                 | 13M4W7D                      |                           | -                         |                              | 0.0454                    |                 |
| LTE Band 38/41 |                       | QPSK                         |                           |                           | 16QAM                        |                           |                 |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W)           | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5              | 2498.5 ~ 2687.5       | 4M52G7D                      | -                         | 0.5572                    | 4M52W7D                      | -                         | 0.4645          |
| 10             | 2501.0 ~ 2685.0       | 9M03G7D                      | 0.0017                    | 0.5781                    | 9M05W7D                      | -                         | 0.4819          |
| 15             | 2503.5 ~ 2682.5       | 13M5G7D                      | -                         | 0.5559                    | 13M5W7D                      | -                         | 0.4797          |
| 20             | 2506.0 ~ 2680.0       | 18M5G7D                      | -                         | 0.5649                    | 18M4W7D                      | -                         | 0.4864          |
| LTE Band 38/41 |                       | 64QAM                        |                           |                           |                              |                           |                 |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum EIRP(W)           |                 |
| 5              | 2498.5 ~ 2687.5       | 4M52W7D                      |                           | -                         |                              | 0.4365                    |                 |
| 10             | 2501.0 ~ 2685.0       | 9M03W7D                      |                           | -                         |                              | 0.4467                    |                 |
| 15             | 2503.5 ~ 2682.5       | 13M4W7D                      |                           | -                         |                              | 0.4467                    |                 |
| 20             | 2506.0 ~ 2680.0       | 18M4W7D                      |                           | -                         |                              | 0.4436                    |                 |
| LTE Band 4/66  |                       | QPSK                         |                           |                           | 16QAM                        |                           |                 |
| BW (MHz)       | Frequency Range (MHz) | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W)           | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 1.4            | 1710.7 ~ 1779.3       | 1M09G7D                      | -                         | 0.2415                    | 1M09W7D                      | -                         | 0.2046          |
| 3              | 1711.5 ~ 1778.5       | 2M73G7D                      | -                         | 0.2460                    | 2M74W7D                      | -                         | 0.2094          |
| 5              | 1712.5 ~ 1777.5       | 4M50G7D                      | -                         | 0.2438                    | 4M49W7D                      | -                         | 0.2128          |
| 10             | 1715.0 ~ 1775.0       | 9M11G7D                      | 0.0342                    | 0.2506                    | 9M07W7D                      | -                         | 0.2089          |
| 15             | 1717.5 ~ 1772.5       | 13M5G7D                      | -                         | 0.2518                    | 13M5W7D                      | -                         | 0.2128          |
| 20             | 1720.0 ~ 1770.0       | 18M5G7D                      | -                         | 0.2523                    | 18M3W7D                      | -                         | 0.2312          |



| LTE Band 4/66 |                             | 64QAM                              |                                 |                              |                                    |                                 |                   |
|---------------|-----------------------------|------------------------------------|---------------------------------|------------------------------|------------------------------------|---------------------------------|-------------------|
| BW<br>(MHz)   | Frequency<br>Range<br>(MHz) | Emission Designator<br>(99%OBW)    |                                 | Frequency Tolerance<br>(ppm) |                                    | Maximum<br>EIRP(W)              |                   |
| 1.4           | 1710.7 ~ 1779.3             | 1M09W7D                            |                                 | -                            |                                    | 0.1671                          |                   |
| 3             | 1711.5 ~ 1778.5             | 2M73W7D                            |                                 | -                            |                                    | 0.1652                          |                   |
| 5             | 1712.5 ~ 1777.5             | 4M50W7D                            |                                 | -                            |                                    | 0.1774                          |                   |
| 10            | 1715.0 ~ 1775.0             | 9M09W7D                            |                                 | -                            |                                    | 0.1714                          |                   |
| 15            | 1717.5 ~ 1772.5             | 13M4W7D                            |                                 | -                            |                                    | 0.1726                          |                   |
| 20            | 1720.0 ~ 1770.0             | 18M5W7D                            |                                 | -                            |                                    | 0.1778                          |                   |
| LTE Band 71   |                             | QPSK                               |                                 |                              | 16QAM                              |                                 |                   |
| BW<br>(MHz)   | Frequency<br>Range<br>(MHz) | Emission<br>Designator<br>(99%OBW) | Frequency<br>Tolerance<br>(ppm) | Maximum<br>ERP(W)            | Emission<br>Designator<br>(99%OBW) | Frequency<br>Tolerance<br>(ppm) | Maximum<br>ERP(W) |
| 5             | 665.5 ~ 695.5               | 4M51G7D                            | -                               | 0.0520                       | 4M51W7D                            | -                               | 0.0434            |
| 10            | 668.0 ~ 693.0               | 9M11G7D                            | 0.0052                          | 0.0519                       | 9M07W7D                            | -                               | 0.0436            |
| 15            | 670.5 ~ 690.5               | 13M4G7D                            | -                               | 0.0520                       | 13M5W7D                            | -                               | 0.0439            |
| 20            | 673.0 ~ 688.0               | 18M5G7D                            | -                               | 0.0522                       | 18M4W7D                            | -                               | 0.0449            |
| LTE Band 71   |                             | 64QAM                              |                                 |                              |                                    |                                 |                   |
| BW<br>(MHz)   | Frequency<br>Range<br>(MHz) | Emission Designator<br>(99%OBW)    |                                 | Frequency Tolerance<br>(ppm) |                                    | Maximum<br>ERP(W)               |                   |
| 5             | 665.5 ~ 695.5               | 4M51W7D                            |                                 | -                            |                                    | 0.0344                          |                   |
| 10            | 668.0 ~ 693.0               | 9M01W7D                            |                                 | -                            |                                    | 0.0340                          |                   |
| 15            | 670.5 ~ 690.5               | 13M4W7D                            |                                 | -                            |                                    | 0.0341                          |                   |
| 20            | 673.0 ~ 688.0               | 18M5W7D                            |                                 | -                            |                                    | 0.0346                          |                   |



| LTE Band 5B_CA  | QPSK                         |                           |                           | 16QAM                        |                           |                 |
|-----------------|------------------------------|---------------------------|---------------------------|------------------------------|---------------------------|-----------------|
| BW (MHz)        | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)            | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum ERP(W)  |
| 5MHz+10MHz      | 14M5G7D                      | -                         | 0.0678                    | 14M5W7D                      | -                         | 0.0597          |
| 10MHz+5MHz      | 14M5G7D                      | -                         | 0.0679                    | 14M5W7D                      | -                         | 0.0612          |
| 10MHz+10MHz     | 19M3G7D                      | -                         | 0.0700                    | 19M2W7D                      | -                         | 0.0640          |
| LTE Band 5B_CA  | 64QAM                        |                           |                           |                              |                           |                 |
| BW (MHz)        | Emission Designator (99%OBW) |                           | Frequency Tolerance (ppm) |                              | Maximum ERP(W)            |                 |
| 5MHz+10MHz      | 14M4W7D                      |                           | -                         |                              | 0.0361                    |                 |
| 10MHz+5MHz      | 14M5W7D                      |                           | -                         |                              | 0.0377                    |                 |
| 10MHz+10MHz     | 19M3W7D                      |                           | -                         |                              | 0.0478                    |                 |
| LTE Band 41C_CA | QPSK                         |                           |                           | 16QAM                        |                           |                 |
| BW (MHz)        | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W)           | Emission Designator (99%OBW) | Frequency Tolerance (ppm) | Maximum EIRP(W) |
| 5MHz+20MHz      | 23M2G7D                      | -                         | 0.2767                    | 23M1W7D                      | -                         | 0.2254          |
| 10MHz+20MHz     | 28M2G7D                      | -                         | 0.2754                    | 28M2W7D                      | -                         | 0.2218          |
| 10MHz+15MHz     | 23M6G7D                      | -                         | 0.2767                    | 23M6W7D                      | -                         | 0.2249          |
| 15MHz+15MHz     | 28M8G7D                      | -                         | 0.2825                    | 28M7W7D                      | -                         | 0.2291          |
| 15MHz+20MHz     | 32M9G7D                      | -                         | 0.2818                    | 33M1W7D                      | -                         | 0.2301          |
| 15MHz+10MHz     | 23M5G7D                      | -                         | 0.2838                    | 23M5W7D                      | -                         | 0.2296          |
| 20MHz+5MHz      | 23M4G7D                      | -                         | 0.2825                    | 23M5W7D                      | -                         | 0.2286          |
| 20MHz+10MHz     | 28M2G7D                      | -                         | 0.2851                    | 28M1W7D                      | -                         | 0.2323          |
| 20MHz+15MHz     | 32M9G7D                      | -                         | 0.2831                    | 33M1W7D                      | -                         | 0.2307          |
| 20MHz+20MHz     | 37M8G7D                      | -                         | 0.2793                    | 37M8W7D                      | -                         | 0.2275          |



| LTE Band 41C_CA | 64QAM                           |                              |                    |
|-----------------|---------------------------------|------------------------------|--------------------|
| BW (MHz)        | Emission Designator<br>(99%OBW) | Frequency Tolerance<br>(ppm) | Maximum<br>EIRP(W) |
| 5MHz+20MHz      | 23M3W7D                         | -                            | 0.1396             |
| 10MHz+20MHz     | 28M1W7D                         | -                            | 0.1403             |
| 10MHz+15MHz     | 23M5W7D                         | -                            | 0.1406             |
| 15MHz+15MHz     | 28M8W7D                         | -                            | 0.1435             |
| 15MHz+20MHz     | 32M9W7D                         | -                            | 0.1419             |
| 15MHz+10MHz     | 23M6W7D                         | -                            | 0.1629             |
| 20MHz+5MHz      | 23M3W7D                         | -                            | 0.1578             |
| 20MHz+10MHz     | 28M4W7D                         | -                            | 0.1514             |
| 20MHz+15MHz     | 32M9W7D                         | -                            | 0.1439             |
| 20MHz+20MHz     | 37M7W7D                         | -                            | 0.1622             |

**Note:**

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.
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.
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.



## 1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

|                           |                                                                                                                                                     |                            |                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------|
| <b>Test Site</b>          | Sporton International (Kunshan) Inc.                                                                                                                |                            |                                       |
| <b>Test Site Location</b> | No. 1098, Pengxi North Road, Kunshan Economic Development Zone,<br>Jiangsu Province 215335, China<br>TEL : 86-512-57900158<br>FAX : 86-512-57900958 |                            |                                       |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                             | <b>FCC designation No.</b> | <b>FCC Test Firm Registration No.</b> |
|                           | TH01-KS<br>03CH06-KS                                                                                                                                | CN5013                     | 630927                                |

## 1.8 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F) , 27(H) , 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.

## 1.9 Specification of Accessory

| Specification of Accessory |                  |                                                              |                       |
|----------------------------|------------------|--------------------------------------------------------------|-----------------------|
| AC Adapter 1(US)           | Brand Name       | Motorola (Salom)                                             | Model Name SC-51      |
|                            | Power Rating     | I/P: 100-240 Vac, 0.6A O/P: 5Vdc,3A or 9Vdc,2A or 12Vdc,1.5A |                       |
| AC Adapter 2(US)           | Brand Name       | Motorola (Chenyang)                                          | Model Name SC-51      |
|                            | Power Rating     | I/P: 100-240 Vac, 0.6A O/P: 5Vdc,3A or 9Vdc,2A or 12Vdc,1.5A |                       |
| Battery                    | Brand Name       | Amperex (Motorola)                                           | Model Name KZ40       |
|                            | Power Rating     | 3.8Vdc,3600mAh                                               | Type Li-ion Polymer   |
| USB Cable 1                | Brand Name       | Motorola (Cabletech)                                         | Model Name SC18C49697 |
|                            | Signal Line Type | 1.0 meter, shielded cable, without ferrite core              |                       |
| USB Cable 2                | Brand Name       | Motorola (Saibao)                                            | Model Name SC18C24367 |
|                            | Signal Line Type | 1.0 meter, shielded cable, without ferrite core              |                       |
| USB Cable 3                | Brand Name       | Motorola (Luxshare)                                          | Model Name SC18C24368 |
|                            | Signal Line Type | 1.0 meter, shielded cable, without ferrite core              |                       |





## 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 | 1    | Half | Full | L            | M | H |
| Max. Output Power     | 2    | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 4    | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 5    | v               | v | v | v  | -  | -  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 7    | -               | - | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 12   | 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          | v     | v     | v    | v    | v    | -            | v | - |
|                       | 17   | -               | - | v | v  | -  | -  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 25   | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 26   | v               | v | v | v  | v  | -  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 38   | -               | - | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 41   | -               | - | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 66   | v               | v | v | v  | v  | v  | v          | v     | v     | v    | v    | v    | v            | v | v |
|                       | 71   | -               | - | 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 |
|                       | 25   |                 |   |   |    |    | v  | v          | v     | v     | v    |      | v    | v            | v | v |
|                       | 26   |                 |   |   | v  |    | -  | v          | v     | v     | v    |      | v    | v            | v | v |
|                       | 41   | -               | - |   |    |    | v  | v          | v     | v     | v    |      | v    | v            | v | v |
|                       | 66   |                 |   |   |    |    | v  | v          | v     | v     | v    |      | v    | v            | v | v |
|                       | 71   | -               | - |   |    |    | v  | v          | v     | v     | v    |      | v    | v            | v | v |



| Test Items                        | Band | Bandwidth (MHz) |   |   |    |    |    | Modulation |           |           | RB # |          |      | Test Channel |   |   |
|-----------------------------------|------|-----------------|---|---|----|----|----|------------|-----------|-----------|------|----------|------|--------------|---|---|
|                                   |      | 1.4             | 3 | 5 | 10 | 15 | 20 | QPS<br>K   | 16QA<br>M | 64QA<br>M | 1    | Hal<br>f | Full | L            | M | H |
| 26dB and 99%<br>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  |    |    | v          | v         | v         |      |          | v    |              | v |   |
|                                   | 25   | v               | v | v | v  | v  | v  | v          | v         | v         |      |          | v    | v            | v | v |
|                                   | 26   | v               | v | v | v  | v  | -  | v          | v         | v         |      |          | v    | v            | v | v |
|                                   | 41   | -               | - | v | v  | v  | v  | v          | v         | v         |      |          | v    | v            | v | v |
|                                   | 66   | v               | v | v | v  | v  | v  | v          | v         | v         |      |          | v    | v            | v | v |
| Conducted<br>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  | -  | -  | v          | v         | v         | v    |          |      |              | v |   |
|                                   | 25   | v               | v | v | v  | v  | v  | v          | v         | v         | v    |          | v    | v            |   | v |
|                                   | 26   | v               | v | v | v  | v  | -  | v          | v         | v         | v    |          | v    | v            |   | v |
|                                   | 41   | -               | - | v | v  | v  | v  | v          | v         | v         | v    |          | v    | v            |   | v |
|                                   | 66   | v               | v | v | v  | v  | v  | v          | v         | v         | v    |          | v    | v            |   | v |
| Conducted<br>Spurious<br>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  | -  | -  | v          | v         | v         | v    |          |      |              | v |   |
|                                   | 25   | v               | v | v | v  | v  | v  | v          | v         | v         | v    |          |      | v            | v | v |
|                                   | 26   | v               | v | v | v  | v  | -  | v          | v         | v         | v    |          |      | v            | v | v |
|                                   | 41   | -               | - | v | v  | v  | v  | v          | v         | v         | v    |          |      | v            | v | v |
|                                   | 66   | v               | v | v | v  | v  | v  | v          | v         | v         | v    |          |      | v            | v | v |
| Frequency<br>Stability            | 7    | -               | - |   | v  |    |    | v          |           |           |      |          | v    |              | v |   |
|                                   | 12   |                 |   |   | v  | -  | -  | v          |           |           |      |          | v    |              | v |   |
|                                   | 13   | -               | - |   | v  | -  | -  | v          |           |           |      |          | v    |              | v |   |
|                                   | 25   |                 |   |   | v  |    |    | v          |           |           |      |          | v    |              | v |   |
|                                   | 26   |                 |   |   | v  |    | -  | v          |           |           |      |          | v    |              | v |   |
|                                   | 41   | -               | - |   | v  |    |    | v          |           |           |      |          | v    |              | v |   |



|  |    |   |   |  |   |  |  |   |  |  |  |  |   |  |   |  |
|--|----|---|---|--|---|--|--|---|--|--|--|--|---|--|---|--|
|  | 66 |   |   |  | v |  |  | v |  |  |  |  | v |  | v |  |
|  | 71 | - | - |  | v |  |  | v |  |  |  |  | v |  | v |  |

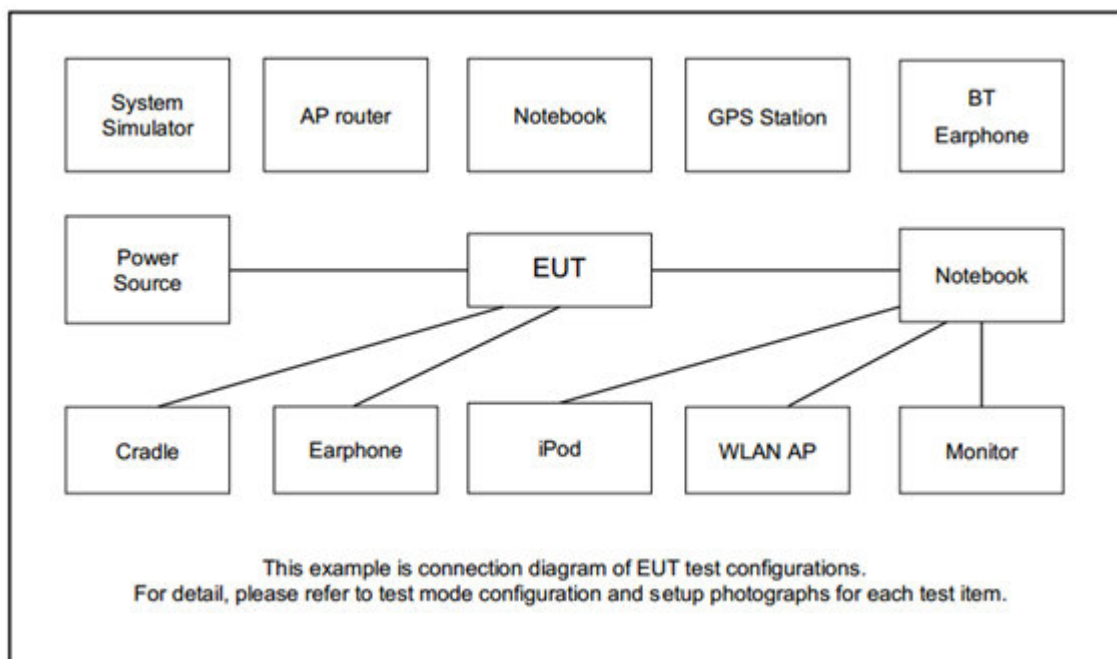
| Test Items                       | Band                                                                                                                                                                                                                                         | Bandwidth (MHz) |   |   |    |    |    | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---|---|----|----|----|------------|-------|-------|------|------|------|--------------|---|---|
|                                  |                                                                                                                                                                                                                                              | 1.4             | 3 | 5 | 10 | 15 | 20 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| E.R.P /<br>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  | -  | -  | v          | v     | v     | v    |      |      |              | v |   |
|                                  | 25                                                                                                                                                                                                                                           | v               | v | v | v  | v  | v  | v          | v     | v     | v    |      |      | v            | v | v |
|                                  | 26                                                                                                                                                                                                                                           | v               | v | v | v  | v  | -  | v          | v     | v     | v    |      |      | v            | v | v |
|                                  | 41                                                                                                                                                                                                                                           | -               | - | v | v  | v  | v  | v          | v     | v     | v    |      |      | v            | v | v |
|                                  | 66                                                                                                                                                                                                                                           | v               | v | v | v  | v  | v  | v          | v     | v     | v    |      |      | v            | v | v |
|                                  | 71                                                                                                                                                                                                                                           | -               | - | v | v  | v  | v  | v          | v     | v     | v    |      |      | v            | v | v |
| Radiated<br>Spurious<br>Emission | 7                                                                                                                                                                                                                                            | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 12                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 13                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 25                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 26                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 41                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 66                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
|                                  | 71                                                                                                                                                                                                                                           | Worst Case      |   |   |    |    |    |            |       |       |      |      |      | v            | v | v |
| Note                             | 1. The mark “v ” means that this configuration is chosen for testing                                                                                                                                                                         |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 2. The mark “-” means that this bandwidth is not supported.                                                                                                                                                                                  |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 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. |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 4. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5.                                                                                      |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 5. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.                                                                                      |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 6. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.                                                                                      |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 7. 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.                                                                                    |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |
|                                  | 8. 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.                                                                                    |                 |   |   |    |    |    |            |       |       |      |      |      |              |   |   |



| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |       |       |       |       |      |      |       |       |       | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|------------|-------|-------|------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                     | 20+20           | 20+15 | 15+20 | 20+10 | 10+20 | 20+5 | 5+20 | 15+15 | 15+10 | 10+15 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v    | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth      | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     |      |      | v    | v            | v | v |
| Conducted Band Edge         | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v    |      | v    | v            |   | v |
| Conducted Spurious Emission | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v    |      |      | v            | v | v |
| E.I.R.P.                    | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | v               | v     | v     | v     | v     | v    | v    | v     | v     | v     | v          | v     | v     | v    |      |      | v            | v | v |
| Radiated Spurious Emission  | 41C_C A                                                                                                                                                                                                                                                                                                                                                                             | Worst Case      |       |       |       |       |      |      |       |       |       |            |       |       |      |      |      | v            | v | v |
| Note                        | 1. The mark “v ” means that this configuration is chosen for testing<br>2. The mark “-“ means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. |                 |       |       |       |       |      |      |       |       |       |            |       |       |      |      |      |              |   |   |

| Test Items                  | Band                                                                                                                                                                                                                                                                                                                                                                                | Bandwidth (MHz) |      |      | Modulation |       |       | RB # |      |      | Test Channel |   |   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|------|------------|-------|-------|------|------|------|--------------|---|---|
|                             |                                                                                                                                                                                                                                                                                                                                                                                     | 10+10           | 10+5 | 5+10 | QPSK       | 16QAM | 64QAM | 1    | Half | Full | L            | M | H |
| Max. Output Power           | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | v    | v    | v          | v     | v     | v    | v    | v    | v            | v | v |
| 26dB and 99% Bandwidth      | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | v    | v    | v          | v     | v     |      |      | v    | v            | v | v |
| Conducted Band Edge         | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | v    | v    | v          | v     | v     | v    |      | v    | v            |   | v |
| Conducted Spurious Emission | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | v    | v    | v          | v     | v     | v    |      |      | v            | v | v |
| E.R.P.                      | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | v               | v    | v    | v          | v     | v     | v    |      |      | v            | v | v |
| Radiated Spurious Emission  | 5B_CA                                                                                                                                                                                                                                                                                                                                                                               | Worst Case      |      |      |            |       |       |      |      |      | v            | v | v |
| Note                        | 1. The mark “v ” means that this configuration is chosen for testing<br>2. The mark “-” means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. |                 |      |      |            |       |       |      |      |      |              |   |   |

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

| Item | Equipment        | Trade Name | Model No. | FCC ID | Data Cable      | Power Cord        |
|------|------------------|------------|-----------|--------|-----------------|-------------------|
| 1.   | System Simulator | Anritsu    | MT8820C   | N/A    | N/A             | Unshielded, 1.8 m |
| 2.   | DC Power Supply  | GW INSTRON | GPS-3030D | N/A    | N/A             | Unshielded, 1.8m  |
| 3.   | Earphone         | Moto       | EM023     | N/A    | Unshielded,1.2m | N/A               |

## 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 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.

*Offset = RF cable loss.*

Following shows an offset computation example with cable loss 5.2 dB.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} \\ &= 5.2 \text{ (dB)}\end{aligned}$$



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

| LTE Band 2 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 18700  | 18900  | 19100   |
|                                       | Frequency              | 1860   | 1880   | 1900    |
| 15                                    | Channel                | 18675  | 18900  | 19125   |
|                                       | Frequency              | 1857.5 | 1880   | 1902.5  |
| 10                                    | Channel                | 18650  | 18900  | 19150   |
|                                       | Frequency              | 1855   | 1880   | 1905    |
| 5                                     | Channel                | 18625  | 18900  | 19175   |
|                                       | Frequency              | 1852.5 | 1880   | 1907.5  |
| 3                                     | Channel                | 18615  | 18900  | 19185   |
|                                       | Frequency              | 1851.5 | 1880   | 1908.5  |
| 1.4                                   | Channel                | 18607  | 18900  | 19193   |
|                                       | Frequency              | 1850.7 | 1880   | 1909.3  |

| LTE Band 4 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                    | Channel                | 20050  | 20175  | 20300   |
|                                       | Frequency              | 1720   | 1732.5 | 1745    |
| 15                                    | Channel                | 20025  | 20175  | 20325   |
|                                       | Frequency              | 1717.5 | 1732.5 | 1747.5  |
| 10                                    | Channel                | 20000  | 20175  | 20350   |
|                                       | Frequency              | 1715   | 1732.5 | 1750    |
| 5                                     | Channel                | 19975  | 20175  | 20375   |
|                                       | Frequency              | 1712.5 | 1732.5 | 1752.5  |
| 3                                     | Channel                | 19965  | 20175  | 20385   |
|                                       | Frequency              | 1711.5 | 1732.5 | 1753.5  |
| 1.4                                   | Channel                | 19957  | 20175  | 20393   |
|                                       | Frequency              | 1710.7 | 1732.5 | 1754.3  |

| LTE Band 5 Channel and Frequency List |                        |        |        |         |
|---------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                              | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 10                                    | Channel                | 20450  | 20525  | 20600   |
|                                       | Frequency              | 829    | 836.5  | 844     |
| 5                                     | Channel                | 20425  | 20525  | 20625   |
|                                       | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                     | Channel                | 20415  | 20525  | 20635   |
|                                       | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                   | Channel                | 20407  | 20525  | 20643   |
|                                       | Frequency              | 824.7  | 836.5  | 848.3   |

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



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

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

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

| LTE Band 25 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 26140  | 26340  | 26590   |
|                                        | Frequency              | 1860   | 1880   | 1905    |
| 15                                     | Channel                | 26115  | 26340  | 26615   |
|                                        | Frequency              | 1857.5 | 1880   | 1907.5  |
| 10                                     | Channel                | 26090  | 26340  | 26640   |
|                                        | Frequency              | 1855   | 1880   | 1910    |
| 5                                      | Channel                | 26065  | 26340  | 26665   |
|                                        | Frequency              | 1852.5 | 1880   | 1912.5  |
| 3                                      | Channel                | 26055  | 26340  | 26675   |
|                                        | Frequency              | 1851.5 | 1880   | 1913.5  |
| 1.4                                    | Channel                | 26047  | 26340  | 26683   |
|                                        | Frequency              | 1850.7 | 1880   | 1914.3  |

| LTE Band 26 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 15                                     | Channel                | 26865  | 26915  | 26965   |
|                                        | Frequency              | 831.5  | 836.5  | 841.5   |
| 10                                     | Channel                | 26840  | 26915  | 26990   |
|                                        | Frequency              | 829    | 836.5  | 844     |
| 5                                      | Channel                | 26815  | 26915  | 27015   |
|                                        | Frequency              | 826.5  | 836.5  | 846.5   |
| 3                                      | Channel                | 26805  | 26915  | 27025   |
|                                        | Frequency              | 825.5  | 836.5  | 847.5   |
| 1.4                                    | Channel                | 26797  | 26915  | 27033   |
|                                        | Frequency              | 824.7  | 836.5  | 848.3   |

| LTE Band 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 66 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 132072 | 132322 | 132572  |
|                                        | Frequency              | 1720   | 1745   | 1770    |
| 15                                     | Channel                | 132047 | 132322 | 132597  |
|                                        | Frequency              | 1717.5 | 1745   | 1772.5  |
| 10                                     | Channel                | 132022 | 132322 | 132622  |
|                                        | Frequency              | 1715   | 1745   | 1775    |
| 5                                      | Channel                | 131997 | 132322 | 132647  |
|                                        | Frequency              | 1712.5 | 1745   | 1777.5  |
| 3                                      | Channel                | 131987 | 132322 | 132657  |
|                                        | Frequency              | 1711.5 | 1745   | 1778.5  |
| 1.4                                    | Channel                | 131979 | 132322 | 132665  |
|                                        | Frequency              | 1710.7 | 1745   | 1779.3  |

| LTE Band 71 Channel and Frequency List |                        |        |        |         |
|----------------------------------------|------------------------|--------|--------|---------|
| BW [MHz]                               | Channel/Frequency(MHz) | Lowest | Middle | Highest |
| 20                                     | Channel                | 133372 | 133297 | 133447  |
|                                        | Frequency              | 665.5  | 680.5  | 695.5   |
| 15                                     | Channel                | 133622 | 133297 | 133422  |
|                                        | Frequency              | 668.0  | 680.5  | 693.0   |
| 10                                     | Channel                | 133872 | 133297 | 133397  |
|                                        | Frequency              | 670.5  | 680.5  | 690.5   |
| 5                                      | Channel                | 134122 | 133297 | 133372  |
|                                        | Frequency              | 673.0  | 680.5  | 688.0   |



| LTE Band 5B_CA Channel and Frequency List |                        |           |        |        |         |
|-------------------------------------------|------------------------|-----------|--------|--------|---------|
| BW [MHz]                                  | Channel/Frequency(MHz) |           | Lowest | Middle | Highest |
| 5 + 10                                    | PCC                    | Channel   | 20428  | 20478  | 20528   |
|                                           |                        | Frequency | 826.8  | 831.8  | 836.8   |
|                                           | SCC                    | Channel   | 20500  | 20550  | 20600   |
|                                           |                        | Frequency | 834    | 839    | 844     |
| 10 + 5                                    | PCC                    | Channel   | 20450  | 20500  | 20550   |
|                                           |                        | Frequency | 829    | 834    | 839     |
|                                           | SCC                    | Channel   | 20522  | 20572  | 20622   |
|                                           |                        | Frequency | 836.2  | 841.2  | 846.2   |
| 10 + 10                                   | PCC                    | Channel   | 20450  | 20476  | 20501   |
|                                           |                        | Frequency | 829    | 831.6  | 834.1   |
|                                           | SCC                    | Channel   | 20549  | 20575  | 20600   |
|                                           |                        | Frequency | 838.9  | 841.5  | 844     |



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



| LTE Band 41 Channel and Frequency List |     |           |        |        |        |
|----------------------------------------|-----|-----------|--------|--------|--------|
| 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 |

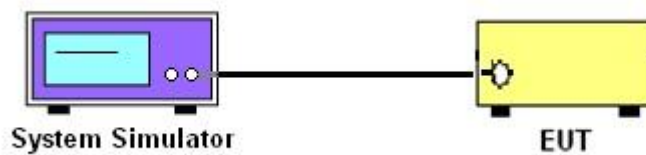
### 3 Conducted Test Items

#### 3.1 Measuring Instruments

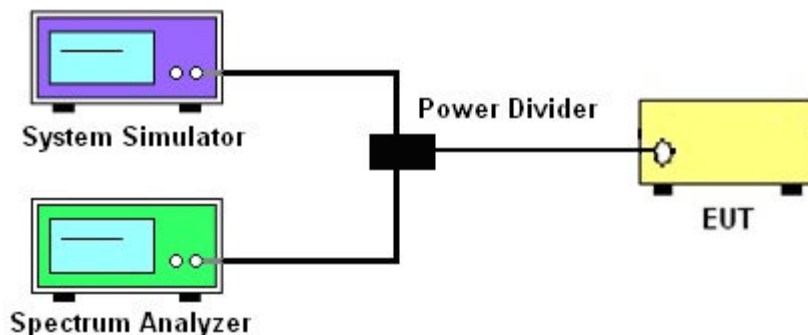
See list of measuring instruments of this test report.

#### 3.2 Test Setup

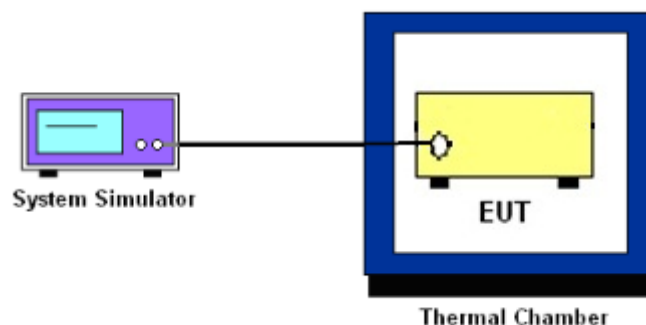
##### 3.2.1 Conducted Output Power



##### 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 7 Watts for LTE Band 5 and Band 26.

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 2 and Band 25 and Band 7 and Band 38 and Band 41.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

According to KDB 412172 D01 Power Approach,

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

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

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

#### 3.4.2 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

22.917(a)

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

24.238 (a)

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

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 (h)

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

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 or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor  $= 10 \log (1/x)$ , where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. 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)

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

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

10. 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. Offset has included the duty factor for LTE Band 38/41. Duty factor =  $10 \log (1/x)$ , where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. 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.
12. 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.

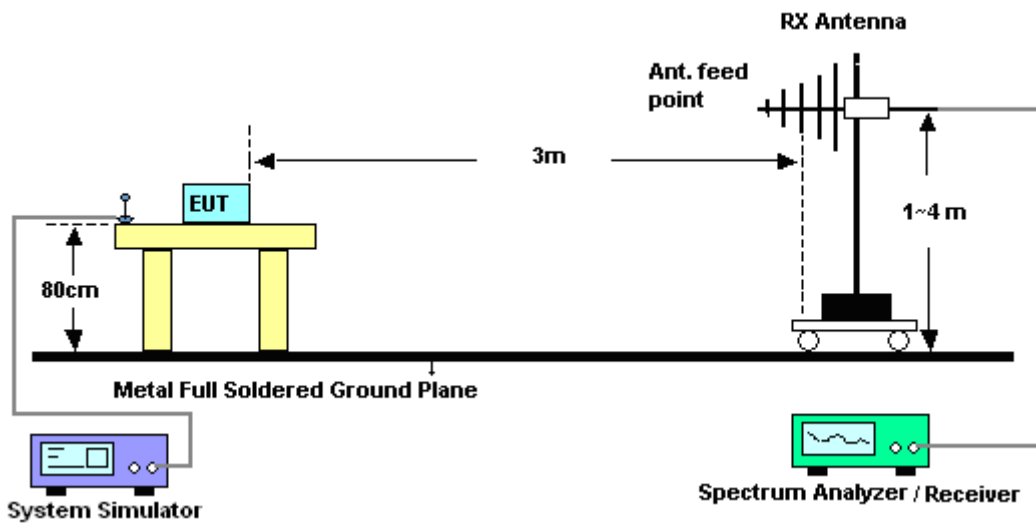
## 4 Radiated Test Items

### 4.1 Measuring Instruments

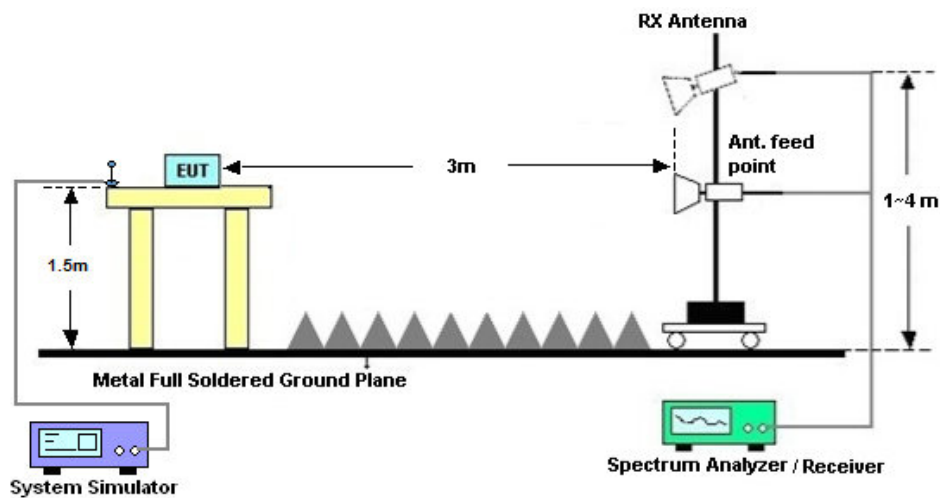
See list of measuring instruments of this test report.

### 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                          | 100319      | 10Hz~40GHz              | Oct. 11, 2018    | Jan. 11, 2019~<br>Feb. 21, 2019 | Oct. 10, 2019 | Conducted (TH01-KS)   |
| Temperature & humidity chamber | Hongzhan     | LP-150U                        | H2014011440 | -40~+150°C<br>20%~95%RH | Jun. 27, 2018    | Jan. 11, 2019~<br>Feb. 21, 2019 | Jun. 26, 2019 | Conducted (TH01-KS)   |
| EXA Spectrum Analyzer          | Keysight     | N9010B                         | MY57471084  | 10Hz~44GHz              | Jun. 25, 2018    | Jan. 25, 2019                   | Jun. 24, 2019 | Radiation (03CH06-KS) |
| Bilog Antenna                  | TeseQ        | CBL6111D                       | 44483       | 30MHz~1GHz              | Jan. 29, 2018    | Jan. 25, 2019                   | Jan. 28, 2019 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna      | ETS-Lindgren | 3117                           | 75957       | 1GHz~18GHz              | Oct. 20, 2018    | Jan. 25, 2019                   | Oct. 19, 2019 | Radiation (03CH06-KS) |
| SHF-EHF Horn                   | Schwarzbeck  | BBHA 9170                      | BBHA170249  | 15GHz~40GHz             | Feb. 07, 2018    | Jan. 25, 2019                   | Feb. 06, 2019 | Radiation (03CH06-KS) |
| Amplifier                      | SONOMA       | 310N                           | 187289      | 9KHz ~1GHZ              | Aug. 06, 2018    | Jan. 25, 2019                   | Aug. 05, 2019 | Radiation (03CH06-KS) |
| Amplifier                      | MITEQ        | TTA1840-35-HG                  | 2014749     | 18~40GHz                | Feb. 08, 2018    | Jan. 25, 2019                   | Feb. 07, 2019 | Radiation (03CH06-KS) |
| high gain Amplifier            | MITEQ        | AMF-7D-00<br>101800-30-1<br>0P | 2025788     | 1Ghz-18Ghz              | Apr. 17, 2018    | Jan. 25, 2019                   | Apr. 16, 2019 | Radiation (03CH06-KS) |
| Amplifier                      | Keysight     | 83017A                         | MY53270203  | 500MHz~26.5GHz          | Apr. 18, 2018    | Jan. 25, 2019                   | Apr. 17, 2019 | Radiation (03CH06-KS) |
| AC Power Source                | Chroma       | 61601                          | F104090004  | N/A                     | NCR              | Jan. 25, 2019                   | NCR           | Radiation (03CH06-KS) |
| Turn Table                     | ChamPro      | EM 1000-T                      | 060762-T    | 0~360 degree            | NCR              | Jan. 25, 2019                   | NCR           | Radiation (03CH06-KS) |
| Antenna Mast                   | ChamPro      | EM 1000-A                      | 060762-A    | 1 m~4 m                 | NCR              | Jan. 25, 2019                   | NCR           | Radiation (03CH06-KS) |

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% ( $U = 2Uc(y)$ ) | 2.5 dB |
|-------------------------------------------------------------------------|--------|

### Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.0 dB |
|-------------------------------------------------------------------------|--------|



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 23.15  | 23.30  | 23.08   |
| 20                                     | 1       | 49        |        | 22.72  | 22.92  | 23.01   |
| 20                                     | 1       | 99        |        | 22.98  | 22.95  | 22.90   |
| 20                                     | 50      | 0         |        | 21.91  | 22.10  | 22.03   |
| 20                                     | 50      | 24        |        | 21.85  | 21.96  | 22.07   |
| 20                                     | 50      | 50        |        | 21.90  | 21.90  | 21.98   |
| 20                                     | 100     | 0         |        | 21.97  | 21.98  | 21.94   |
| 20                                     | 1       | 0         | 16-QAM | 22.32  | 22.61  | 22.36   |
| 20                                     | 1       | 49        |        | 22.02  | 22.26  | 22.34   |
| 20                                     | 1       | 99        |        | 22.34  | 22.25  | 22.25   |
| 20                                     | 50      | 0         |        | 20.99  | 21.15  | 21.13   |
| 20                                     | 50      | 24        |        | 20.89  | 21.04  | 21.14   |
| 20                                     | 50      | 50        |        | 20.96  | 20.97  | 21.10   |
| 20                                     | 100     | 0         |        | 21.01  | 21.05  | 21.05   |
| 20                                     | 1       | 0         | 64-QAM | 21.21  | 21.41  | 21.25   |
| 20                                     | 1       | 49        |        | 20.91  | 21.38  | 21.23   |
| 20                                     | 1       | 99        |        | 21.20  | 21.40  | 21.16   |
| 20                                     | 50      | 0         |        | 20.21  | 20.27  | 20.13   |
| 20                                     | 50      | 24        |        | 20.20  | 20.26  | 20.13   |
| 20                                     | 50      | 50        |        | 20.12  | 20.22  | 20.08   |
| 20                                     | 100     | 0         |        | 20.02  | 20.21  | 20.05   |
| 15                                     | 1       | 0         | QPSK   | 22.85  | 23.08  | 23.23   |
| 15                                     | 1       | 37        |        | 22.68  | 22.88  | 23.08   |
| 15                                     | 1       | 74        |        | 22.73  | 22.85  | 23.04   |
| 15                                     | 36      | 0         |        | 21.86  | 21.98  | 22.22   |
| 15                                     | 36      | 20        |        | 21.83  | 21.93  | 22.13   |
| 15                                     | 36      | 39        |        | 21.73  | 21.88  | 22.10   |
| 15                                     | 75      | 0         |        | 21.86  | 21.98  | 22.14   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 1  | 0  | 16-QAM | 22.16 | 22.46 | 22.55 |
| 15 | 1  | 37 |        | 22.00 | 22.28 | 22.46 |
| 15 | 1  | 74 |        | 22.06 | 22.22 | 22.38 |
| 15 | 36 | 0  |        | 20.91 | 21.13 | 21.28 |
| 15 | 36 | 20 |        | 20.85 | 21.08 | 21.26 |
| 15 | 36 | 39 |        | 20.81 | 21.03 | 21.22 |
| 15 | 75 | 0  |        | 20.87 | 21.04 | 21.24 |
| 15 | 1  | 0  | 64-QAM | 21.26 | 21.53 | 21.69 |
| 15 | 1  | 37 |        | 21.08 | 21.38 | 21.56 |
| 15 | 1  | 74 |        | 21.16 | 21.32 | 21.49 |
| 15 | 36 | 0  |        | 20.12 | 20.32 | 20.48 |
| 15 | 36 | 20 |        | 20.04 | 20.27 | 20.46 |
| 15 | 36 | 39 |        | 20.00 | 20.23 | 20.39 |
| 15 | 75 | 0  |        | 20.06 | 20.24 | 20.47 |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.03  | 23.18  | 23.13   |
| 10                                     | 1       | 25        |        | 22.74  | 22.89  | 23.04   |
| 10                                     | 1       | 49        |        | 22.94  | 23.07  | 23.00   |
| 10                                     | 25      | 0         |        | 21.88  | 21.97  | 22.13   |
| 10                                     | 25      | 12        |        | 21.83  | 21.93  | 22.08   |
| 10                                     | 25      | 25        |        | 21.82  | 21.90  | 22.05   |
| 10                                     | 50      | 0         |        | 21.85  | 21.96  | 22.09   |
| 10                                     | 1       | 0         | 16-QAM | 22.25  | 22.60  | 22.51   |
| 10                                     | 1       | 25        |        | 22.01  | 22.29  | 22.45   |
| 10                                     | 1       | 49        |        | 22.17  | 22.43  | 22.33   |
| 10                                     | 25      | 0         |        | 20.91  | 21.10  | 21.26   |
| 10                                     | 25      | 12        |        | 20.90  | 21.06  | 21.24   |
| 10                                     | 25      | 25        |        | 20.84  | 21.03  | 21.20   |
| 10                                     | 50      | 0         |        | 20.87  | 21.06  | 21.25   |
| 10                                     | 1       | 0         | 64-QAM | 21.39  | 21.69  | 21.62   |
| 10                                     | 1       | 25        |        | 21.13  | 21.38  | 21.57   |
| 10                                     | 1       | 49        |        | 21.30  | 21.52  | 21.43   |
| 10                                     | 25      | 0         |        | 20.12  | 20.32  | 20.49   |
| 10                                     | 25      | 12        |        | 20.07  | 20.27  | 20.44   |
| 10                                     | 25      | 25        |        | 20.07  | 20.21  | 20.42   |
| 10                                     | 50      | 0         |        | 20.07  | 20.27  | 20.45   |
| 5                                      | 1       | 0         | QPSK   | 22.84  | 22.95  | 23.08   |
| 5                                      | 1       | 12        |        | 22.78  | 22.88  | 23.04   |
| 5                                      | 1       | 24        |        | 22.75  | 22.93  | 23.04   |
| 5                                      | 12      | 0         |        | 21.83  | 21.95  | 22.09   |
| 5                                      | 12      | 7         |        | 21.85  | 21.93  | 22.10   |
| 5                                      | 12      | 13        |        | 21.80  | 21.92  | 22.06   |
| 5                                      | 25      | 0         |        | 21.85  | 21.95  | 22.07   |
| 5                                      | 1       | 0         | 16-QAM | 22.04  | 22.37  | 22.48   |
| 5                                      | 1       | 12        |        | 21.99  | 22.24  | 22.39   |
| 5                                      | 1       | 24        |        | 21.98  | 22.26  | 22.33   |
| 5                                      | 12      | 0         |        | 20.90  | 21.10  | 21.22   |
| 5                                      | 12      | 7         |        | 20.84  | 21.05  | 21.24   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.84 | 21.02 | 21.20 |
| 5 | 25 | 0  |        | 20.87 | 21.02 | 21.17 |
| 5 | 1  | 0  | 64-QAM | 21.16 | 21.48 | 21.59 |
| 5 | 1  | 12 |        | 21.11 | 21.36 | 21.54 |
| 5 | 1  | 24 |        | 21.12 | 21.36 | 21.45 |
| 5 | 12 | 0  |        | 20.06 | 20.28 | 20.42 |
| 5 | 12 | 7  |        | 20.04 | 20.26 | 20.43 |
| 5 | 12 | 13 |        | 20.21 | 20.21 | 20.38 |
| 5 | 25 | 0  |        | 20.03 | 20.21 | 20.39 |



| LTE Band 2 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 22.80  | 22.96  | 23.09   |
| 3                                      | 1       | 8         |        | 22.77  | 22.93  | 23.06   |
| 3                                      | 1       | 14        |        | 22.77  | 22.90  | 23.04   |
| 3                                      | 8       | 0         |        | 21.83  | 21.96  | 22.11   |
| 3                                      | 8       | 4         |        | 21.82  | 22.00  | 22.10   |
| 3                                      | 8       | 7         |        | 21.81  | 21.95  | 22.10   |
| 3                                      | 15      | 0         |        | 21.82  | 21.92  | 22.10   |
| 3                                      | 1       | 0         | 16-QAM | 22.04  | 22.35  | 22.46   |
| 3                                      | 1       | 8         |        | 21.99  | 22.30  | 22.43   |
| 3                                      | 1       | 14        |        | 21.96  | 22.25  | 22.30   |
| 3                                      | 8       | 0         |        | 20.89  | 21.12  | 21.28   |
| 3                                      | 8       | 4         |        | 20.92  | 21.12  | 21.28   |
| 3                                      | 8       | 7         |        | 20.87  | 21.07  | 21.25   |
| 3                                      | 15      | 0         |        | 20.89  | 21.04  | 21.21   |
| 3                                      | 1       | 0         | 64-QAM | 21.15  | 21.38  | 21.57   |
| 3                                      | 1       | 8         |        | 21.10  | 21.41  | 21.51   |
| 3                                      | 1       | 14        |        | 21.08  | 21.35  | 21.45   |
| 3                                      | 8       | 0         |        | 20.05  | 20.27  | 20.42   |
| 3                                      | 8       | 4         |        | 20.08  | 20.26  | 20.42   |
| 3                                      | 8       | 7         |        | 20.04  | 20.23  | 20.39   |
| 3                                      | 15      | 0         |        | 20.04  | 20.21  | 20.40   |
| 1.4                                    | 1       | 0         | QPSK   | 22.70  | 22.86  | 22.96   |
| 1.4                                    | 1       | 3         |        | 22.74  | 22.91  | 23.06   |
| 1.4                                    | 1       | 5         |        | 22.70  | 22.84  | 22.95   |
| 1.4                                    | 3       | 0         |        | 22.74  | 22.90  | 23.01   |
| 1.4                                    | 3       | 1         |        | 22.80  | 22.92  | 23.06   |
| 1.4                                    | 3       | 3         |        | 22.74  | 22.89  | 22.99   |
| 1.4                                    | 6       | 0         |        | 21.76  | 21.84  | 22.01   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.00  | 22.25  | 22.36   |
| 1.4                                    | 1       | 3         |        | 22.05  | 22.32  | 22.42   |
| 1.4                                    | 1       | 5         |        | 21.95  | 22.21  | 22.32   |
| 1.4                                    | 3       | 0         |        | 21.77  | 22.05  | 22.09   |
| 1.4                                    | 3       | 1         |        | 21.83  | 22.07  | 22.13   |





|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 21.77 | 22.02 | 22.08 |
| 1.4 | 6 | 0 |        | 20.89 | 21.06 | 21.18 |
| 1.4 | 1 | 0 | 64-QAM | 21.11 | 21.36 | 21.43 |
| 1.4 | 1 | 3 |        | 21.19 | 21.37 | 21.48 |
| 1.4 | 1 | 5 |        | 21.12 | 21.28 | 21.38 |
| 1.4 | 3 | 0 |        | 21.03 | 21.24 | 21.35 |
| 1.4 | 3 | 1 |        | 21.07 | 21.31 | 21.41 |
| 1.4 | 3 | 3 |        | 21.01 | 21.25 | 21.34 |
| 1.4 | 6 | 0 |        | 20.10 | 20.17 | 20.32 |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 23.01  | 23.41  | 23.11   |
| 20                                      | 1       | 49        |        | 22.64  | 23.04  | 22.89   |
| 20                                      | 1       | 99        |        | 22.89  | 23.09  | 22.87   |
| 20                                      | 50      | 0         |        | 21.85  | 22.15  | 22.04   |
| 20                                      | 50      | 24        |        | 21.87  | 22.07  | 21.97   |
| 20                                      | 50      | 50        |        | 21.86  | 22.08  | 21.93   |
| 20                                      | 100     | 0         |        | 21.91  | 22.11  | 21.99   |
| 20                                      | 1       | 0         | 16-QAM | 22.24  | 22.79  | 22.42   |
| 20                                      | 1       | 49        |        | 21.96  | 22.50  | 22.31   |
| 20                                      | 1       | 99        |        | 22.30  | 22.48  | 22.16   |
| 20                                      | 50      | 0         |        | 20.92  | 21.30  | 21.19   |
| 20                                      | 50      | 24        |        | 20.96  | 21.23  | 21.09   |
| 20                                      | 50      | 50        |        | 20.91  | 21.19  | 21.02   |
| 20                                      | 100     | 0         |        | 20.95  | 21.24  | 21.11   |
| 20                                      | 1       | 0         | 64-QAM | 21.26  | 21.78  | 21.49   |
| 20                                      | 1       | 49        |        | 20.97  | 21.48  | 21.36   |
| 20                                      | 1       | 99        |        | 21.30  | 21.49  | 21.20   |
| 20                                      | 50      | 0         |        | 20.04  | 20.42  | 20.27   |
| 20                                      | 50      | 24        |        | 20.09  | 20.35  | 20.22   |
| 20                                      | 50      | 50        |        | 20.02  | 20.30  | 20.13   |
| 20                                      | 100     | 0         |        | 20.10  | 20.37  | 20.24   |
| 15                                      | 1       | 0         | QPSK   | 22.90  | 23.24  | 23.03   |
| 15                                      | 1       | 37        |        | 22.68  | 23.06  | 22.82   |
| 15                                      | 1       | 74        |        | 22.84  | 23.06  | 22.80   |
| 15                                      | 36      | 0         |        | 21.85  | 22.19  | 21.96   |
| 15                                      | 36      | 20        |        | 21.79  | 22.17  | 21.90   |
| 15                                      | 36      | 39        |        | 21.87  | 22.08  | 21.83   |
| 15                                      | 75      | 0         |        | 21.89  | 22.14  | 21.90   |
| 15                                      | 1       | 0         | 16-QAM | 22.13  | 22.64  | 22.40   |
| 15                                      | 1       | 37        |        | 21.95  | 22.46  | 22.22   |
| 15                                      | 1       | 74        |        | 22.12  | 22.35  | 22.15   |
| 15                                      | 36      | 0         |        | 20.88  | 21.36  | 21.08   |
| 15                                      | 36      | 20        |        | 20.84  | 21.31  | 21.05   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 20.92 | 21.23 | 20.98 |
| 15 | 75 | 0  |        | 20.96 | 21.27 | 21.01 |
| 15 | 1  | 0  | 64-QAM | 21.10 | 21.62 | 21.38 |
| 15 | 1  | 37 |        | 20.93 | 21.43 | 21.18 |
| 15 | 1  | 74 |        | 21.13 | 21.34 | 21.13 |
| 15 | 36 | 0  |        | 19.97 | 20.42 | 20.14 |
| 15 | 36 | 20 |        | 19.92 | 20.38 | 20.12 |
| 15 | 36 | 39 |        | 20.02 | 20.29 | 20.02 |
| 15 | 75 | 0  |        | 20.05 | 20.35 | 20.08 |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 23.06  | 23.40  | 22.93   |
| 10                                      | 1       | 25        |        | 22.72  | 23.09  | 22.81   |
| 10                                      | 1       | 49        |        | 22.90  | 23.26  | 22.82   |
| 10                                      | 25      | 0         |        | 21.87  | 22.16  | 21.92   |
| 10                                      | 25      | 12        |        | 21.85  | 22.15  | 21.91   |
| 10                                      | 25      | 25        |        | 21.78  | 22.10  | 21.88   |
| 10                                      | 50      | 0         |        | 21.84  | 22.16  | 21.90   |
| 10                                      | 1       | 0         | 16-QAM | 22.24  | 22.75  | 22.30   |
| 10                                      | 1       | 25        |        | 21.98  | 22.48  | 22.14   |
| 10                                      | 1       | 49        |        | 22.18  | 22.60  | 22.17   |
| 10                                      | 25      | 0         |        | 20.92  | 21.30  | 21.05   |
| 10                                      | 25      | 12        |        | 20.89  | 21.27  | 20.98   |
| 10                                      | 25      | 25        |        | 20.85  | 21.23  | 20.95   |
| 10                                      | 50      | 0         |        | 20.89  | 21.27  | 21.02   |
| 10                                      | 1       | 0         | 64-QAM | 21.33  | 21.80  | 21.40   |
| 10                                      | 1       | 25        |        | 21.05  | 21.55  | 21.20   |
| 10                                      | 1       | 49        |        | 21.26  | 21.66  | 21.21   |
| 10                                      | 25      | 0         |        | 20.07  | 20.45  | 20.18   |
| 10                                      | 25      | 12        |        | 20.02  | 20.43  | 20.13   |
| 10                                      | 25      | 25        |        | 20.01  | 20.38  | 20.11   |
| 10                                      | 50      | 0         |        | 20.01  | 20.42  | 20.16   |
| 5                                       | 1       | 0         | QPSK   | 22.71  | 23.16  | 22.85   |
| 5                                       | 1       | 12        |        | 22.65  | 23.11  | 22.80   |
| 5                                       | 1       | 24        |        | 22.67  | 23.09  | 22.81   |
| 5                                       | 12      | 0         |        | 21.73  | 22.15  | 21.89   |
| 5                                       | 12      | 7         |        | 21.68  | 22.14  | 21.88   |
| 5                                       | 12      | 13        |        | 21.68  | 22.10  | 21.88   |
| 5                                       | 25      | 0         |        | 21.71  | 22.12  | 21.88   |
| 5                                       | 1       | 0         | 16-QAM | 21.96  | 22.59  | 22.15   |
| 5                                       | 1       | 12        |        | 21.93  | 22.45  | 22.09   |
| 5                                       | 1       | 24        |        | 21.92  | 22.45  | 22.15   |
| 5                                       | 12      | 0         |        | 20.78  | 21.28  | 20.96   |
| 5                                       | 12      | 7         |        | 20.74  | 21.25  | 20.99   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.69 | 21.22 | 20.98 |
| 5 | 25 | 0  |        | 20.75 | 21.22 | 20.95 |
| 5 | 1  | 0  | 64-QAM | 21.02 | 21.60 | 21.23 |
| 5 | 1  | 12 |        | 20.95 | 21.49 | 21.13 |
| 5 | 1  | 24 |        | 20.95 | 21.47 | 21.18 |
| 5 | 12 | 0  |        | 19.85 | 20.39 | 20.08 |
| 5 | 12 | 7  |        | 19.85 | 20.36 | 20.11 |
| 5 | 12 | 13 |        | 19.80 | 20.34 | 20.09 |
| 5 | 25 | 0  |        | 19.89 | 20.34 | 20.09 |



| LTE Band 25 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.66  | 23.09  | 22.81   |
| 3                                       | 1       | 8         |        | 22.63  | 23.08  | 22.80   |
| 3                                       | 1       | 14        |        | 22.63  | 23.06  | 22.76   |
| 3                                       | 8       | 0         |        | 21.66  | 22.09  | 21.87   |
| 3                                       | 8       | 4         |        | 21.70  | 22.12  | 21.89   |
| 3                                       | 8       | 7         |        | 21.65  | 22.12  | 21.84   |
| 3                                       | 15      | 0         |        | 21.67  | 22.07  | 21.86   |
| 3                                       | 1       | 0         | 16-QAM | 21.93  | 22.50  | 22.12   |
| 3                                       | 1       | 8         |        | 21.90  | 22.46  | 22.10   |
| 3                                       | 1       | 14        |        | 21.85  | 22.44  | 22.11   |
| 3                                       | 8       | 0         |        | 20.73  | 21.28  | 20.98   |
| 3                                       | 8       | 4         |        | 20.77  | 21.31  | 21.02   |
| 3                                       | 8       | 7         |        | 20.72  | 21.21  | 21.03   |
| 3                                       | 15      | 0         |        | 20.74  | 21.22  | 20.97   |
| 3                                       | 1       | 0         | 64-QAM | 21.43  | 21.56  | 21.59   |
| 3                                       | 1       | 8         |        | 21.46  | 21.52  | 21.55   |
| 3                                       | 1       | 14        |        | 21.36  | 21.48  | 21.52   |
| 3                                       | 8       | 0         |        | 20.37  | 20.41  | 20.45   |
| 3                                       | 8       | 4         |        | 20.39  | 20.43  | 20.47   |
| 3                                       | 8       | 7         |        | 20.42  | 20.36  | 20.48   |
| 3                                       | 15      | 0         |        | 20.32  | 20.34  | 20.34   |
| 1.4                                     | 1       | 0         | QPSK   | 22.60  | 23.00  | 22.72   |
| 1.4                                     | 1       | 3         |        | 22.62  | 23.08  | 22.81   |
| 1.4                                     | 1       | 5         |        | 22.56  | 22.99  | 22.72   |
| 1.4                                     | 3       | 0         |        | 22.58  | 23.06  | 22.78   |
| 1.4                                     | 3       | 1         |        | 22.65  | 23.09  | 22.83   |
| 1.4                                     | 3       | 3         |        | 22.60  | 23.02  | 22.79   |
| 1.4                                     | 6       | 0         |        | 21.63  | 22.01  | 21.81   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.87  | 22.41  | 22.02   |
| 1.4                                     | 1       | 3         |        | 21.92  | 22.45  | 22.09   |
| 1.4                                     | 1       | 5         |        | 21.80  | 22.39  | 22.04   |
| 1.4                                     | 3       | 0         |        | 21.64  | 22.18  | 21.86   |
| 1.4                                     | 3       | 1         |        | 21.69  | 22.23  | 21.90   |



|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 21.61 | 22.12 | 21.83 |
| 1.4 | 6 | 0 |        | 20.74 | 21.20 | 20.99 |
| 1.4 | 1 | 0 | 64-QAM | 21.45 | 21.49 | 21.68 |
| 1.4 | 1 | 3 |        | 21.47 | 21.54 | 21.62 |
| 1.4 | 1 | 5 |        | 21.42 | 21.47 | 21.67 |
| 1.4 | 3 | 0 |        | 21.41 | 21.39 | 21.58 |
| 1.4 | 3 | 1 |        | 21.45 | 21.45 | 21.62 |
| 1.4 | 3 | 3 |        | 21.38 | 21.36 | 21.59 |
| 1.4 | 6 | 0 |        | 20.37 | 20.34 | 20.58 |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 22.97  | 23.00  | 22.99   |
| 20                                     | 1       | 49        |        | 22.81  | 22.76  | 22.77   |
| 20                                     | 1       | 99        |        | 22.73  | 22.74  | 22.70   |
| 20                                     | 50      | 0         |        | 21.93  | 21.89  | 21.89   |
| 20                                     | 50      | 24        |        | 21.85  | 21.86  | 21.84   |
| 20                                     | 50      | 50        |        | 21.79  | 21.80  | 21.76   |
| 20                                     | 100     | 0         |        | 21.87  | 21.83  | 21.86   |
| 20                                     | 1       | 0         | 16-QAM | 22.29  | 22.40  | 22.37   |
| 20                                     | 1       | 49        |        | 22.20  | 22.26  | 22.12   |
| 20                                     | 1       | 99        |        | 22.27  | 22.18  | 21.99   |
| 20                                     | 50      | 0         |        | 21.04  | 21.07  | 21.01   |
| 20                                     | 50      | 24        |        | 21.00  | 20.99  | 20.97   |
| 20                                     | 50      | 50        |        | 20.96  | 20.91  | 20.86   |
| 20                                     | 100     | 0         |        | 20.97  | 20.95  | 20.90   |
| 20                                     | 1       | 0         | 64-QAM | 21.30  | 21.39  | 21.35   |
| 20                                     | 1       | 49        |        | 21.15  | 21.13  | 21.10   |
| 20                                     | 1       | 99        |        | 21.16  | 21.09  | 20.98   |
| 20                                     | 50      | 0         |        | 20.08  | 20.11  | 20.09   |
| 20                                     | 50      | 24        |        | 20.03  | 20.03  | 20.01   |
| 20                                     | 50      | 50        |        | 20.00  | 19.97  | 19.93   |
| 20                                     | 100     | 0         |        | 20.06  | 20.05  | 19.98   |
| 15                                     | 1       | 0         | QPSK   | 22.92  | 22.94  | 22.94   |
| 15                                     | 1       | 37        |        | 22.77  | 22.75  | 22.76   |
| 15                                     | 1       | 74        |        | 22.80  | 22.76  | 22.70   |
| 15                                     | 36      | 0         |        | 21.87  | 21.90  | 21.87   |
| 15                                     | 36      | 20        |        | 21.86  | 21.87  | 21.82   |
| 15                                     | 36      | 39        |        | 21.80  | 21.82  | 21.74   |
| 15                                     | 75      | 0         |        | 21.85  | 21.86  | 21.82   |
| 15                                     | 1       | 0         | 16-QAM | 22.28  | 22.34  | 22.35   |
| 15                                     | 1       | 37        |        | 22.12  | 22.20  | 22.08   |
| 15                                     | 1       | 74        |        | 22.18  | 22.17  | 22.04   |
| 15                                     | 36      | 0         |        | 20.98  | 21.00  | 20.98   |
| 15                                     | 36      | 20        |        | 20.98  | 20.97  | 20.93   |





|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 20.92 | 20.94 | 20.83 |
| 15 | 75 | 0  |        | 20.97 | 20.96 | 20.88 |
| 15 | 1  | 0  | 64-QAM | 21.30 | 21.37 | 21.35 |
| 15 | 1  | 37 |        | 21.15 | 21.18 | 21.10 |
| 15 | 1  | 74 |        | 21.22 | 21.17 | 21.03 |
| 15 | 36 | 0  |        | 20.10 | 20.13 | 20.11 |
| 15 | 36 | 20 |        | 20.08 | 20.09 | 20.07 |
| 15 | 36 | 39 |        | 20.04 | 20.06 | 19.96 |
| 15 | 75 | 0  |        | 20.12 | 20.05 | 20.01 |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 22.84  | 22.83  | 22.79   |
| 10                                     | 1       | 25        |        | 22.74  | 22.75  | 22.71   |
| 10                                     | 1       | 49        |        | 22.76  | 22.69  | 22.67   |
| 10                                     | 25      | 0         |        | 21.87  | 21.83  | 21.80   |
| 10                                     | 25      | 12        |        | 21.81  | 21.78  | 21.78   |
| 10                                     | 25      | 25        |        | 21.76  | 21.76  | 21.76   |
| 10                                     | 50      | 0         |        | 21.84  | 21.77  | 21.79   |
| 10                                     | 1       | 0         | 16-QAM | 22.20  | 22.25  | 22.19   |
| 10                                     | 1       | 25        |        | 22.13  | 22.17  | 22.10   |
| 10                                     | 1       | 49        |        | 22.11  | 22.11  | 22.00   |
| 10                                     | 25      | 0         |        | 20.97  | 20.96  | 20.93   |
| 10                                     | 25      | 12        |        | 20.93  | 20.92  | 20.88   |
| 10                                     | 25      | 25        |        | 20.86  | 20.88  | 20.81   |
| 10                                     | 50      | 0         |        | 20.91  | 20.95  | 20.85   |
| 10                                     | 1       | 0         | 64-QAM | 21.09  | 21.22  | 21.15   |
| 10                                     | 1       | 25        |        | 21.04  | 21.11  | 21.05   |
| 10                                     | 1       | 49        |        | 21.06  | 21.06  | 20.96   |
| 10                                     | 25      | 0         |        | 20.01  | 20.04  | 19.99   |
| 10                                     | 25      | 12        |        | 19.99  | 19.98  | 19.96   |
| 10                                     | 25      | 25        |        | 19.93  | 19.93  | 19.89   |
| 10                                     | 50      | 0         |        | 19.95  | 19.97  | 19.91   |
| 5                                      | 1       | 0         | QPSK   | 22.78  | 22.78  | 22.74   |
| 5                                      | 1       | 12        |        | 22.74  | 22.72  | 22.67   |
| 5                                      | 1       | 24        |        | 22.71  | 22.72  | 22.66   |
| 5                                      | 12      | 0         |        | 21.81  | 21.78  | 21.77   |
| 5                                      | 12      | 7         |        | 21.80  | 21.82  | 21.76   |
| 5                                      | 12      | 13        |        | 21.78  | 21.75  | 21.75   |
| 5                                      | 25      | 0         |        | 21.76  | 21.74  | 21.74   |
| 5                                      | 1       | 0         | 16-QAM | 22.09  | 22.21  | 22.04   |
| 5                                      | 1       | 12        |        | 22.09  | 22.16  | 22.04   |
| 5                                      | 1       | 24        |        | 22.05  | 22.16  | 21.96   |
| 5                                      | 12      | 0         |        | 20.92  | 20.94  | 20.83   |
| 5                                      | 12      | 7         |        | 20.91  | 20.96  | 20.82   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.87 | 20.93 | 20.79 |
| 5 | 25 | 0  |        | 20.87 | 20.88 | 20.81 |
| 5 | 1  | 0  | 64-QAM | 21.09 | 21.17 | 21.04 |
| 5 | 1  | 12 |        | 21.03 | 21.12 | 20.97 |
| 5 | 1  | 24 |        | 21.04 | 21.12 | 20.96 |
| 5 | 12 | 0  |        | 19.99 | 20.03 | 19.89 |
| 5 | 12 | 7  |        | 19.98 | 20.02 | 19.91 |
| 5 | 12 | 13 |        | 19.95 | 19.99 | 19.90 |
| 5 | 25 | 0  |        | 19.96 | 19.98 | 19.91 |



| LTE Band 4 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 22.73  | 22.73  | 22.67   |
| 3                                      | 1       | 8         |        | 22.72  | 22.69  | 22.65   |
| 3                                      | 1       | 14        |        | 22.68  | 22.67  | 22.62   |
| 3                                      | 8       | 0         |        | 21.73  | 21.73  | 21.70   |
| 3                                      | 8       | 4         |        | 21.76  | 21.73  | 21.72   |
| 3                                      | 8       | 7         |        | 21.73  | 21.74  | 21.66   |
| 3                                      | 15      | 0         |        | 21.74  | 21.71  | 21.67   |
| 3                                      | 1       | 0         | 16-QAM | 22.02  | 22.05  | 21.92   |
| 3                                      | 1       | 8         |        | 22.04  | 22.10  | 21.90   |
| 3                                      | 1       | 14        |        | 21.95  | 22.05  | 21.87   |
| 3                                      | 8       | 0         |        | 20.90  | 20.93  | 20.79   |
| 3                                      | 8       | 4         |        | 20.91  | 20.96  | 20.83   |
| 3                                      | 8       | 7         |        | 20.87  | 20.89  | 20.80   |
| 3                                      | 15      | 0         |        | 20.82  | 20.84  | 20.81   |
| 3                                      | 1       | 0         | 64-QAM | 21.06  | 21.16  | 21.01   |
| 3                                      | 1       | 8         |        | 21.07  | 21.16  | 20.99   |
| 3                                      | 1       | 14        |        | 21.05  | 21.17  | 20.94   |
| 3                                      | 8       | 0         |        | 19.97  | 20.03  | 19.92   |
| 3                                      | 8       | 4         |        | 20.03  | 20.05  | 19.97   |
| 3                                      | 8       | 7         |        | 20.00  | 19.99  | 19.91   |
| 3                                      | 15      | 0         |        | 19.98  | 19.99  | 19.93   |
| 1.4                                    | 1       | 0         | QPSK   | 22.59  | 22.56  | 22.52   |
| 1.4                                    | 1       | 3         |        | 22.65  | 22.63  | 22.60   |
| 1.4                                    | 1       | 5         |        | 22.56  | 22.56  | 22.53   |
| 1.4                                    | 3       | 0         |        | 22.58  | 22.62  | 22.59   |
| 1.4                                    | 3       | 1         |        | 22.66  | 22.64  | 22.62   |
| 1.4                                    | 3       | 3         |        | 22.61  | 22.61  | 22.56   |
| 1.4                                    | 6       | 0         |        | 21.63  | 21.63  | 21.59   |
| 1.4                                    | 1       | 0         | 16-QAM | 21.87  | 21.95  | 21.82   |
| 1.4                                    | 1       | 3         |        | 21.99  | 22.04  | 21.85   |
| 1.4                                    | 1       | 5         |        | 21.89  | 22.03  | 21.76   |
| 1.4                                    | 3       | 0         |        | 21.73  | 21.78  | 21.64   |
| 1.4                                    | 3       | 1         |        | 21.73  | 21.77  | 21.66   |



|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 21.67 | 21.75 | 21.59 |
| 1.4 | 6 | 0 |        | 20.78 | 20.82 | 20.74 |
| 1.4 | 1 | 0 | 64-QAM | 20.99 | 21.05 | 20.90 |
| 1.4 | 1 | 3 |        | 21.05 | 21.10 | 21.00 |
| 1.4 | 1 | 5 |        | 20.98 | 21.04 | 20.92 |
| 1.4 | 3 | 0 |        | 20.91 | 20.93 | 20.83 |
| 1.4 | 3 | 1 |        | 20.94 | 20.99 | 20.87 |
| 1.4 | 3 | 3 |        | 20.87 | 20.94 | 20.82 |
| 1.4 | 6 | 0 |        | 19.89 | 19.89 | 19.84 |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 23.04  | 22.91  | 23.01   |
| 10                                     | 1       | 25        |        | 22.96  | 22.92  | 22.95   |
| 10                                     | 1       | 49        |        | 23.03  | 22.88  | 22.83   |
| 10                                     | 25      | 0         |        | 22.14  | 21.97  | 22.03   |
| 10                                     | 25      | 12        |        | 22.10  | 21.96  | 21.98   |
| 10                                     | 25      | 25        |        | 22.13  | 21.92  | 21.95   |
| 10                                     | 50      | 0         |        | 22.07  | 21.97  | 22.00   |
| 10                                     | 1       | 0         | 16-QAM | 22.39  | 22.18  | 22.44   |
| 10                                     | 1       | 25        |        | 22.31  | 22.32  | 22.31   |
| 10                                     | 1       | 49        |        | 22.33  | 22.26  | 22.23   |
| 10                                     | 25      | 0         |        | 21.17  | 21.12  | 21.11   |
| 10                                     | 25      | 12        |        | 21.17  | 21.10  | 21.12   |
| 10                                     | 25      | 25        |        | 21.21  | 21.04  | 21.06   |
| 10                                     | 50      | 0         |        | 21.16  | 21.06  | 21.09   |
| 10                                     | 1       | 0         | 64-QAM | 21.74  | 21.61  | 21.76   |
| 10                                     | 1       | 25        |        | 21.71  | 21.70  | 21.66   |
| 10                                     | 1       | 49        |        | 21.74  | 21.64  | 21.60   |
| 10                                     | 25      | 0         |        | 20.68  | 20.57  | 20.60   |
| 10                                     | 25      | 12        |        | 20.66  | 20.54  | 20.60   |
| 10                                     | 25      | 25        |        | 20.70  | 20.54  | 20.56   |
| 10                                     | 50      | 0         |        | 20.63  | 20.54  | 20.57   |
| 5                                      | 1       | 0         | QPSK   | 23.00  | 22.99  | 22.92   |
| 5                                      | 1       | 12        |        | 22.92  | 22.91  | 22.89   |
| 5                                      | 1       | 24        |        | 23.03  | 22.91  | 22.83   |
| 5                                      | 12      | 0         |        | 21.98  | 21.98  | 21.94   |
| 5                                      | 12      | 7         |        | 22.07  | 22.00  | 21.97   |
| 5                                      | 12      | 13        |        | 22.09  | 21.95  | 21.92   |
| 5                                      | 25      | 0         |        | 22.10  | 21.97  | 21.95   |
| 5                                      | 1       | 0         | 16-QAM | 22.35  | 22.26  | 22.26   |
| 5                                      | 1       | 12        |        | 22.29  | 22.28  | 22.22   |
| 5                                      | 1       | 24        |        | 22.34  | 22.29  | 22.22   |
| 5                                      | 12      | 0         |        | 21.12  | 21.05  | 21.04   |
| 5                                      | 12      | 7         |        | 21.22  | 21.08  | 21.05   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 21.18 | 21.04 | 21.06 |
| 5 | 25 | 0  |        | 21.18 | 21.05 | 21.05 |
| 5 | 1  | 0  | 64-QAM | 21.71 | 21.68 | 21.63 |
| 5 | 1  | 12 |        | 21.67 | 21.63 | 21.57 |
| 5 | 1  | 24 |        | 21.71 | 21.66 | 21.61 |
| 5 | 12 | 0  |        | 20.52 | 20.50 | 20.50 |
| 5 | 12 | 7  |        | 20.62 | 20.53 | 20.51 |
| 5 | 12 | 13 |        | 20.64 | 20.49 | 20.47 |
| 5 | 25 | 0  |        | 20.65 | 20.51 | 20.50 |



| LTE Band 5 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                      | 1       | 0         | QPSK   | 22.95  | 22.92  | 22.90   |
| 3                                      | 1       | 8         |        | 22.92  | 22.88  | 22.84   |
| 3                                      | 1       | 14        |        | 22.92  | 22.87  | 22.82   |
| 3                                      | 8       | 0         |        | 21.99  | 21.95  | 21.90   |
| 3                                      | 8       | 4         |        | 21.97  | 21.97  | 21.92   |
| 3                                      | 8       | 7         |        | 21.96  | 21.92  | 21.90   |
| 3                                      | 15      | 0         |        | 21.94  | 21.94  | 21.92   |
| 3                                      | 1       | 0         | 16-QAM | 22.34  | 22.29  | 22.22   |
| 3                                      | 1       | 8         |        | 22.34  | 22.33  | 22.22   |
| 3                                      | 1       | 14        |        | 22.24  | 22.27  | 22.23   |
| 3                                      | 8       | 0         |        | 21.09  | 21.08  | 21.04   |
| 3                                      | 8       | 4         |        | 21.14  | 21.11  | 21.09   |
| 3                                      | 8       | 7         |        | 21.10  | 21.09  | 21.05   |
| 3                                      | 15      | 0         |        | 21.07  | 21.03  | 21.03   |
| 3                                      | 1       | 0         | 64-QAM | 21.65  | 21.60  | 21.51   |
| 3                                      | 1       | 8         |        | 21.56  | 21.58  | 21.50   |
| 3                                      | 1       | 14        |        | 21.56  | 21.58  | 21.55   |
| 3                                      | 8       | 0         |        | 20.47  | 20.47  | 20.42   |
| 3                                      | 8       | 4         |        | 20.52  | 20.50  | 20.46   |
| 3                                      | 8       | 7         |        | 20.47  | 20.46  | 20.43   |
| 3                                      | 15      | 0         |        | 20.42  | 20.41  | 20.41   |
| 1.4                                    | 1       | 0         | QPSK   | 22.88  | 22.83  | 22.77   |
| 1.4                                    | 1       | 3         |        | 22.97  | 22.89  | 22.81   |
| 1.4                                    | 1       | 5         |        | 22.85  | 22.82  | 22.75   |
| 1.4                                    | 3       | 0         |        | 22.91  | 22.87  | 22.80   |
| 1.4                                    | 3       | 1         |        | 22.95  | 22.91  | 22.82   |
| 1.4                                    | 3       | 3         |        | 22.94  | 22.88  | 22.81   |
| 1.4                                    | 6       | 0         |        | 21.90  | 21.85  | 21.81   |
| 1.4                                    | 1       | 0         | 16-QAM | 22.28  | 22.22  | 22.15   |
| 1.4                                    | 1       | 3         |        | 22.29  | 22.26  | 22.24   |
| 1.4                                    | 1       | 5         |        | 22.27  | 22.17  | 22.16   |
| 1.4                                    | 3       | 0         |        | 22.03  | 22.00  | 21.91   |
| 1.4                                    | 3       | 1         |        | 22.05  | 22.02  | 21.96   |





|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 22.00 | 21.95 | 21.89 |
| 1.4 | 6 | 0 |        | 21.10 | 21.03 | 20.99 |
| 1.4 | 1 | 0 | 64-QAM | 21.65 | 21.60 | 21.56 |
| 1.4 | 1 | 3 |        | 21.69 | 21.65 | 21.66 |
| 1.4 | 1 | 5 |        | 21.62 | 21.62 | 21.57 |
| 1.4 | 3 | 0 |        | 21.54 | 21.54 | 21.46 |
| 1.4 | 3 | 1 |        | 21.63 | 21.59 | 21.52 |
| 1.4 | 3 | 3 |        | 21.58 | 21.51 | 21.47 |
| 1.4 | 6 | 0 |        | 20.49 | 20.43 | 20.43 |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 15                                      | 1       | 0         | QPSK   | 23.05  | 23.02  | 22.81   |
| 15                                      | 1       | 37        |        | 22.86  | 22.83  | 22.86   |
| 15                                      | 1       | 74        |        | 22.76  | 22.73  | 22.73   |
| 15                                      | 36      | 0         |        | 21.99  | 21.96  | 21.82   |
| 15                                      | 36      | 20        |        | 21.94  | 21.91  | 21.82   |
| 15                                      | 36      | 39        |        | 21.86  | 21.83  | 21.83   |
| 15                                      | 75      | 0         |        | 21.95  | 21.92  | 21.76   |
| 15                                      | 1       | 0         | 16-QAM | 22.26  | 22.23  | 22.18   |
| 15                                      | 1       | 37        |        | 22.22  | 22.19  | 22.27   |
| 15                                      | 1       | 74        |        | 22.20  | 22.17  | 22.14   |
| 15                                      | 36      | 0         |        | 21.04  | 21.01  | 20.95   |
| 15                                      | 36      | 20        |        | 21.01  | 20.98  | 20.90   |
| 15                                      | 36      | 39        |        | 20.94  | 20.91  | 20.92   |
| 15                                      | 75      | 0         |        | 21.03  | 21.00  | 20.88   |
| 15                                      | 1       | 0         | 64-QAM | 21.72  | 21.69  | 21.70   |
| 15                                      | 1       | 37        |        | 21.66  | 21.63  | 21.75   |
| 15                                      | 1       | 74        |        | 21.63  | 21.60  | 21.65   |
| 15                                      | 36      | 0         |        | 20.65  | 20.62  | 20.52   |
| 15                                      | 36      | 20        |        | 20.60  | 20.57  | 20.48   |
| 15                                      | 36      | 39        |        | 20.53  | 20.50  | 20.50   |
| 15                                      | 75      | 0         |        | 20.62  | 20.59  | 20.48   |
| 10                                      | 1       | 0         | QPSK   | 22.70  | 22.79  | 22.85   |
| 10                                      | 1       | 25        |        | 22.66  | 22.79  | 22.77   |
| 10                                      | 1       | 49        |        | 22.69  | 22.74  | 22.73   |
| 10                                      | 25      | 0         |        | 21.73  | 21.93  | 21.84   |
| 10                                      | 25      | 12        |        | 21.86  | 21.87  | 21.83   |
| 10                                      | 25      | 25        |        | 21.76  | 21.81  | 21.78   |
| 10                                      | 50      | 0         |        | 21.82  | 21.88  | 21.80   |
| 10                                      | 1       | 0         | 16-QAM | 22.03  | 22.12  | 22.25   |
| 10                                      | 1       | 25        |        | 22.04  | 22.11  | 22.14   |
| 10                                      | 1       | 49        |        | 22.12  | 22.09  | 22.12   |
| 10                                      | 25      | 0         |        | 20.80  | 20.99  | 20.97   |
| 10                                      | 25      | 12        |        | 20.94  | 20.94  | 20.93   |
| 10                                      | 25      | 25        |        | 20.90  | 20.89  | 20.84   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 10 | 50 | 0  |        | 20.90 | 20.96 | 20.92 |
| 10 | 1  | 0  | 64-QAM | 21.51 | 21.62 | 21.74 |
| 10 | 1  | 25 |        | 21.48 | 21.61 | 21.66 |
| 10 | 1  | 49 |        | 21.54 | 21.60 | 21.56 |
| 10 | 25 | 0  |        | 20.39 | 20.60 | 20.54 |
| 10 | 25 | 12 |        | 20.53 | 20.54 | 20.52 |
| 10 | 25 | 25 |        | 20.49 | 20.47 | 20.44 |
| 10 | 50 | 0  |        | 20.48 | 20.55 | 20.48 |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 5                                       | 1       | 0         | QPSK   | 22.74  | 22.82  | 22.77   |
| 5                                       | 1       | 12        |        | 22.69  | 22.81  | 22.72   |
| 5                                       | 1       | 24        |        | 22.68  | 22.77  | 22.70   |
| 5                                       | 12      | 0         |        | 21.74  | 21.85  | 21.81   |
| 5                                       | 12      | 7         |        | 21.73  | 21.86  | 21.77   |
| 5                                       | 12      | 13        |        | 21.71  | 21.82  | 21.77   |
| 5                                       | 25      | 0         |        | 21.76  | 21.86  | 21.74   |
| 5                                       | 1       | 0         | 16-QAM | 22.03  | 22.20  | 22.12   |
| 5                                       | 1       | 12        |        | 22.00  | 22.10  | 22.08   |
| 5                                       | 1       | 24        |        | 22.02  | 22.10  | 22.09   |
| 5                                       | 12      | 0         |        | 20.80  | 20.94  | 20.87   |
| 5                                       | 12      | 7         |        | 20.86  | 20.94  | 20.90   |
| 5                                       | 12      | 13        |        | 20.83  | 20.90  | 20.86   |
| 5                                       | 25      | 0         |        | 20.82  | 20.94  | 20.86   |
| 5                                       | 1       | 0         | 64-QAM | 21.62  | 21.68  | 21.72   |
| 5                                       | 1       | 12        |        | 21.58  | 21.65  | 21.65   |
| 5                                       | 1       | 24        |        | 21.59  | 21.64  | 21.66   |
| 5                                       | 12      | 0         |        | 20.45  | 20.62  | 20.53   |
| 5                                       | 12      | 7         |        | 20.50  | 20.56  | 20.52   |
| 5                                       | 12      | 13        |        | 20.46  | 20.56  | 20.50   |
| 5                                       | 25      | 0         |        | 20.48  | 20.60  | 20.50   |
| 3                                       | 1       | 0         | QPSK   | 22.69  | 22.16  | 22.05   |
| 3                                       | 1       | 8         |        | 22.66  | 22.11  | 22.01   |
| 3                                       | 1       | 14        |        | 22.68  | 22.11  | 21.99   |
| 3                                       | 8       | 0         |        | 21.69  | 21.19  | 21.08   |
| 3                                       | 8       | 4         |        | 21.75  | 21.21  | 21.11   |
| 3                                       | 8       | 7         |        | 21.72  | 21.16  | 21.08   |
| 3                                       | 15      | 0         |        | 21.74  | 21.22  | 21.08   |
| 3                                       | 1       | 0         | 16-QAM | 22.01  | 21.45  | 21.36   |
| 3                                       | 1       | 8         |        | 21.48  | 21.39  | 21.35   |
| 3                                       | 1       | 14        |        | 21.34  | 21.41  | 21.41   |
| 3                                       | 8       | 0         |        | 20.21  | 20.28  | 20.20   |
| 3                                       | 8       | 4         |        | 20.26  | 20.33  | 20.23   |
| 3                                       | 8       | 7         |        | 20.21  | 20.27  | 20.25   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 3 | 15 | 0  |        | 20.20 | 20.28 | 20.19 |
| 3 | 1  | 0  | 64-QAM | 21.30 | 21.37 | 21.28 |
| 3 | 1  | 8  |        | 21.29 | 21.33 | 21.30 |
| 3 | 1  | 14 |        | 21.28 | 21.36 | 21.28 |
| 3 | 8  | 0  |        | 20.17 | 20.26 | 20.16 |
| 3 | 8  | 4  |        | 20.19 | 20.28 | 20.20 |
| 3 | 8  | 7  |        | 20.18 | 20.23 | 20.20 |
| 3 | 15 | 0  |        | 20.17 | 20.28 | 20.20 |



| LTE Band 26 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 1.4                                     | 1       | 0         | QPSK   | 22.04  | 22.09  | 21.98   |
| 1.4                                     | 1       | 3         |        | 22.12  | 22.18  | 22.06   |
| 1.4                                     | 1       | 5         |        | 22.02  | 22.09  | 22.20   |
| 1.4                                     | 3       | 0         |        | 22.11  | 22.13  | 22.04   |
| 1.4                                     | 3       | 1         |        | 22.12  | 22.20  | 22.06   |
| 1.4                                     | 3       | 3         |        | 22.09  | 22.14  | 22.00   |
| 1.4                                     | 6       | 0         |        | 21.10  | 21.17  | 21.02   |
| 1.4                                     | 1       | 0         | 16-QAM | 21.33  | 21.37  | 21.36   |
| 1.4                                     | 1       | 3         |        | 21.43  | 21.45  | 21.46   |
| 1.4                                     | 1       | 5         |        | 21.29  | 21.36  | 21.31   |
| 1.4                                     | 3       | 0         |        | 21.13  | 21.20  | 21.14   |
| 1.4                                     | 3       | 1         |        | 21.19  | 21.24  | 21.15   |
| 1.4                                     | 3       | 3         |        | 21.13  | 21.20  | 21.13   |
| 1.4                                     | 6       | 0         |        | 20.23  | 20.28  | 20.21   |
| 1.4                                     | 1       | 0         | 64-QAM | 21.27  | 21.30  | 21.20   |
| 1.4                                     | 1       | 3         |        | 21.26  | 21.36  | 21.32   |
| 1.4                                     | 1       | 5         |        | 21.25  | 21.29  | 21.27   |
| 1.4                                     | 3       | 0         |        | 21.19  | 21.25  | 21.14   |
| 1.4                                     | 3       | 1         |        | 21.20  | 21.29  | 21.19   |
| 1.4                                     | 3       | 3         |        | 21.14  | 21.23  | 21.13   |
| 1.4                                     | 6       | 0         |        | 20.17  | 20.22  | 20.13   |



| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                     | 1       | 0         | QPSK   | 22.60  | 22.60  | 22.82   |
| 20                                     | 1       | 49        |        | 22.64  | 22.61  | 22.73   |
| 20                                     | 1       | 99        |        | 22.70  | 22.58  | 22.81   |
| 20                                     | 50      | 0         |        | 21.73  | 21.73  | 21.79   |
| 20                                     | 50      | 24        |        | 21.74  | 21.66  | 21.78   |
| 20                                     | 50      | 50        |        | 21.73  | 21.63  | 21.78   |
| 20                                     | 100     | 0         |        | 21.74  | 21.69  | 21.78   |
| 20                                     | 1       | 0         | 16-QAM | 21.85  | 21.88  | 22.05   |
| 20                                     | 1       | 49        |        | 21.90  | 21.93  | 21.99   |
| 20                                     | 1       | 99        |        | 21.98  | 21.89  | 22.21   |
| 20                                     | 50      | 0         |        | 20.82  | 20.76  | 20.83   |
| 20                                     | 50      | 24        |        | 20.80  | 20.78  | 20.85   |
| 20                                     | 50      | 50        |        | 20.78  | 20.75  | 20.83   |
| 20                                     | 100     | 0         |        | 20.77  | 20.72  | 20.83   |
| 20                                     | 1       | 0         | 64-QAM | 21.39  | 21.40  | 21.54   |
| 20                                     | 1       | 49        |        | 21.43  | 21.45  | 21.51   |
| 20                                     | 1       | 99        |        | 21.48  | 21.43  | 21.50   |
| 20                                     | 50      | 0         |        | 20.40  | 20.38  | 20.46   |
| 20                                     | 50      | 24        |        | 20.42  | 20.40  | 20.46   |
| 20                                     | 50      | 50        |        | 20.40  | 20.33  | 20.44   |
| 20                                     | 100     | 0         |        | 20.40  | 20.34  | 20.45   |
| 15                                     | 1       | 0         | QPSK   | 22.58  | 22.72  | 22.73   |
| 15                                     | 1       | 37        |        | 22.52  | 22.62  | 22.74   |
| 15                                     | 1       | 74        |        | 22.63  | 22.59  | 22.79   |
| 15                                     | 36      | 0         |        | 21.56  | 21.66  | 21.77   |
| 15                                     | 36      | 20        |        | 21.72  | 21.66  | 21.76   |
| 15                                     | 36      | 39        |        | 21.66  | 21.63  | 21.73   |
| 15                                     | 75      | 0         |        | 21.68  | 21.63  | 21.76   |
| 15                                     | 1       | 0         | 16-QAM | 21.84  | 22.00  | 22.00   |
| 15                                     | 1       | 37        |        | 21.80  | 21.92  | 22.06   |
| 15                                     | 1       | 74        |        | 21.91  | 21.90  | 22.22   |
| 15                                     | 36      | 0         |        | 20.65  | 20.77  | 20.79   |
| 15                                     | 36      | 20        |        | 20.78  | 20.77  | 20.86   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 20.77 | 20.72 | 20.84 |
| 15 | 75 | 0  |        | 20.75 | 20.72 | 20.85 |
| 15 | 1  | 0  | 64-QAM | 21.32 | 21.47 | 21.50 |
| 15 | 1  | 37 |        | 21.27 | 21.43 | 21.48 |
| 15 | 1  | 74 |        | 21.40 | 21.36 | 21.56 |
| 15 | 36 | 0  |        | 20.22 | 20.34 | 20.35 |
| 15 | 36 | 20 |        | 20.31 | 20.33 | 20.42 |
| 15 | 36 | 39 |        | 20.32 | 20.23 | 20.40 |
| 15 | 75 | 0  |        | 20.32 | 20.30 | 20.42 |





| LTE Band 7 Maximum Average Power [dBm] |         |           |        |        |        |         |
|----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                               | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                     | 1       | 0         | QPSK   | 22.53  | 22.67  | 22.77   |
| 10                                     | 1       | 25        |        | 22.53  | 22.60  | 22.75   |
| 10                                     | 1       | 49        |        | 22.65  | 22.56  | 22.77   |
| 10                                     | 25      | 0         |        | 21.54  | 21.64  | 21.77   |
| 10                                     | 25      | 12        |        | 21.58  | 21.68  | 21.75   |
| 10                                     | 25      | 25        |        | 21.67  | 21.61  | 21.72   |
| 10                                     | 50      | 0         |        | 21.68  | 21.64  | 21.72   |
| 10                                     | 1       | 0         | 16-QAM | 21.81  | 21.99  | 22.04   |
| 10                                     | 1       | 25        |        | 21.84  | 21.96  | 22.12   |
| 10                                     | 1       | 49        |        | 21.93  | 21.91  | 22.22   |
| 10                                     | 25      | 0         |        | 20.64  | 20.71  | 20.84   |
| 10                                     | 25      | 12        |        | 20.66  | 20.76  | 20.84   |
| 10                                     | 25      | 25        |        | 20.72  | 20.73  | 20.82   |
| 10                                     | 50      | 0         |        | 20.73  | 20.71  | 20.81   |
| 10                                     | 1       | 0         | 64-QAM | 21.30  | 21.48  | 21.51   |
| 10                                     | 1       | 25        |        | 21.29  | 21.40  | 21.52   |
| 10                                     | 1       | 49        |        | 21.38  | 21.37  | 21.56   |
| 10                                     | 25      | 0         |        | 20.21  | 20.32  | 20.41   |
| 10                                     | 25      | 12        |        | 20.24  | 20.30  | 20.40   |
| 10                                     | 25      | 25        |        | 20.29  | 20.27  | 20.41   |
| 10                                     | 50      | 0         |        | 20.30  | 20.25  | 20.39   |
| 5                                      | 1       | 0         | QPSK   | 22.53  | 22.65  | 22.74   |
| 5                                      | 1       | 12        |        | 22.56  | 22.67  | 22.76   |
| 5                                      | 1       | 24        |        | 22.55  | 22.58  | 22.77   |
| 5                                      | 12      | 0         |        | 21.57  | 21.66  | 21.75   |
| 5                                      | 12      | 7         |        | 21.59  | 21.70  | 21.78   |
| 5                                      | 12      | 13        |        | 21.55  | 21.66  | 21.78   |
| 5                                      | 25      | 0         |        | 21.58  | 21.65  | 21.74   |
| 5                                      | 1       | 0         | 16-QAM | 21.78  | 21.94  | 22.15   |
| 5                                      | 1       | 12        |        | 21.78  | 21.99  | 22.28   |
| 5                                      | 1       | 24        |        | 21.77  | 21.93  | 22.23   |
| 5                                      | 12      | 0         |        | 20.60  | 20.72  | 20.86   |
| 5                                      | 12      | 7         |        | 20.67  | 20.74  | 20.89   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.62 | 20.71 | 20.91 |
| 5 | 25 | 0  |        | 20.63 | 20.70 | 20.84 |
| 5 | 1  | 0  | 64-QAM | 21.24 | 21.40 | 21.59 |
| 5 | 1  | 12 |        | 21.32 | 21.45 | 21.72 |
| 5 | 1  | 24 |        | 21.25 | 21.39 | 21.65 |
| 5 | 12 | 0  |        | 20.15 | 20.25 | 20.40 |
| 5 | 12 | 7  |        | 20.23 | 20.28 | 20.43 |
| 5 | 12 | 13 |        | 20.17 | 20.25 | 20.46 |
| 5 | 25 | 0  |        | 20.20 | 20.27 | 20.39 |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.72  | 22.68  | 22.86   |
| 10                                      | 1       | 25        |        | 22.71  | 22.72  | 22.70   |
| 10                                      | 1       | 49        |        | 22.64  | 22.70  | 22.77   |
| 10                                      | 25      | 0         |        | 21.89  | 21.82  | 21.75   |
| 10                                      | 25      | 12        |        | 21.80  | 21.81  | 21.75   |
| 10                                      | 25      | 25        |        | 21.71  | 21.79  | 21.72   |
| 10                                      | 50      | 0         |        | 21.65  | 21.79  | 21.74   |
| 10                                      | 1       | 0         | 16-QAM | 22.64  | 22.05  | 22.08   |
| 10                                      | 1       | 25        |        | 22.70  | 22.14  | 22.11   |
| 10                                      | 1       | 49        |        | 22.71  | 22.04  | 22.04   |
| 10                                      | 25      | 0         |        | 21.49  | 20.91  | 20.89   |
| 10                                      | 25      | 12        |        | 21.59  | 20.91  | 20.89   |
| 10                                      | 25      | 25        |        | 21.55  | 20.87  | 20.86   |
| 10                                      | 50      | 0         |        | 21.55  | 20.90  | 20.88   |
| 10                                      | 1       | 0         | 64-QAM | 21.56  | 21.57  | 21.60   |
| 10                                      | 1       | 25        |        | 21.53  | 21.59  | 21.58   |
| 10                                      | 1       | 49        |        | 21.50  | 21.48  | 21.43   |
| 10                                      | 25      | 0         |        | 20.48  | 20.52  | 20.45   |
| 10                                      | 25      | 12        |        | 20.52  | 20.51  | 20.50   |
| 10                                      | 25      | 25        |        | 20.45  | 20.44  | 20.35   |
| 10                                      | 50      | 0         |        | 20.52  | 20.48  | 20.43   |
| 5                                       | 1       | 0         | QPSK   | 22.67  | 22.68  | 22.66   |
| 5                                       | 1       | 12        |        | 22.73  | 22.72  | 22.75   |
| 5                                       | 1       | 24        |        | 22.72  | 22.72  | 22.74   |
| 5                                       | 12      | 0         |        | 21.79  | 21.83  | 21.73   |
| 5                                       | 12      | 7         |        | 21.81  | 21.81  | 21.87   |
| 5                                       | 12      | 13        |        | 21.79  | 21.81  | 21.83   |
| 5                                       | 25      | 0         |        | 21.78  | 21.78  | 21.71   |
| 5                                       | 1       | 0         | 16-QAM | 22.01  | 22.05  | 22.03   |
| 5                                       | 1       | 12        |        | 22.07  | 22.08  | 22.12   |
| 5                                       | 1       | 24        |        | 22.08  | 22.11  | 22.01   |
| 5                                       | 12      | 0         |        | 20.92  | 20.94  | 20.82   |
| 5                                       | 12      | 7         |        | 20.90  | 20.93  | 20.93   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.90 | 20.90 | 20.87 |
| 5 | 25 | 0  |        | 20.86 | 20.92 | 20.81 |
| 5 | 1  | 0  | 64-QAM | 21.51 | 21.52 | 21.53 |
| 5 | 1  | 12 |        | 21.56 | 21.55 | 21.57 |
| 5 | 1  | 24 |        | 21.57 | 21.58 | 21.50 |
| 5 | 12 | 0  |        | 20.50 | 20.48 | 20.39 |
| 5 | 12 | 7  |        | 20.49 | 20.52 | 20.52 |
| 5 | 12 | 13 |        | 20.46 | 20.47 | 20.46 |
| 5 | 25 | 0  |        | 20.44 | 20.50 | 20.41 |



| LTE Band 12 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.65  | 22.73  | 22.73   |
| 3                                       | 1       | 8         |        | 22.64  | 22.70  | 22.71   |
| 3                                       | 1       | 14        |        | 22.73  | 22.69  | 22.70   |
| 3                                       | 8       | 0         |        | 21.66  | 21.80  | 21.77   |
| 3                                       | 8       | 4         |        | 21.68  | 21.78  | 21.84   |
| 3                                       | 8       | 7         |        | 21.77  | 21.80  | 21.79   |
| 3                                       | 15      | 0         | 16-QAM | 21.76  | 21.76  | 21.81   |
| 3                                       | 1       | 0         |        | 22.07  | 22.12  | 22.09   |
| 3                                       | 1       | 8         |        | 22.08  | 22.15  | 22.02   |
| 3                                       | 1       | 14        |        | 22.10  | 22.10  | 21.98   |
| 3                                       | 8       | 0         |        | 20.84  | 20.91  | 20.94   |
| 3                                       | 8       | 4         |        | 20.87  | 20.95  | 20.91   |
| 3                                       | 8       | 7         | 64-QAM | 20.94  | 20.91  | 20.87   |
| 3                                       | 15      | 0         |        | 20.91  | 20.88  | 20.91   |
| 3                                       | 1       | 0         |        | 21.48  | 21.58  | 21.55   |
| 3                                       | 1       | 8         |        | 21.49  | 21.57  | 21.50   |
| 3                                       | 1       | 14        |        | 21.54  | 21.58  | 21.48   |
| 3                                       | 8       | 0         |        | 20.37  | 20.46  | 20.47   |
| 3                                       | 8       | 4         | QPSK   | 20.39  | 20.50  | 20.47   |
| 3                                       | 8       | 7         |        | 20.46  | 20.46  | 20.42   |
| 3                                       | 15      | 0         |        | 20.43  | 20.42  | 20.45   |
| 1.4                                     | 1       | 0         |        | 22.44  | 22.62  | 22.63   |
| 1.4                                     | 1       | 3         |        | 22.64  | 22.71  | 22.71   |
| 1.4                                     | 1       | 5         |        | 22.51  | 22.64  | 22.59   |
| 1.4                                     | 3       | 0         | 16-QAM | 22.60  | 22.68  | 22.67   |
| 1.4                                     | 3       | 1         |        | 22.66  | 22.72  | 22.73   |
| 1.4                                     | 3       | 3         |        | 22.58  | 22.66  | 22.68   |
| 1.4                                     | 6       | 0         |        | 21.61  | 21.67  | 21.73   |
| 1.4                                     | 1       | 0         |        | 21.88  | 21.96  | 21.90   |
| 1.4                                     | 1       | 3         |        | 21.98  | 22.04  | 21.94   |
| 1.4                                     | 1       | 5         | 16-QAM | 21.90  | 22.00  | 21.89   |
| 1.4                                     | 3       | 0         |        | 21.71  | 21.79  | 21.72   |
| 1.4                                     | 3       | 1         |        | 21.75  | 21.85  | 21.79   |



|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 21.71 | 21.79 | 21.69 |
| 1.4 | 6 | 0 |        | 20.77 | 20.87 | 20.84 |
| 1.4 | 1 | 0 | 64-QAM | 21.35 | 21.50 | 21.43 |
| 1.4 | 1 | 3 |        | 21.49 | 21.55 | 21.42 |
| 1.4 | 1 | 5 |        | 21.33 | 21.48 | 21.33 |
| 1.4 | 3 | 0 |        | 21.33 | 21.43 | 21.28 |
| 1.4 | 3 | 1 |        | 21.36 | 21.47 | 21.39 |
| 1.4 | 3 | 3 |        | 21.34 | 21.41 | 21.29 |
| 1.4 | 6 | 0 |        | 20.26 | 20.37 | 20.33 |



| LTE Band 13 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   |        | 22.85  |         |
| 10                                      | 1       | 25        |        |        | 22.73  |         |
| 10                                      | 1       | 49        |        |        | 22.61  |         |
| 10                                      | 25      | 0         |        |        | 21.78  |         |
| 10                                      | 25      | 12        |        |        | 21.76  |         |
| 10                                      | 25      | 25        |        |        | 21.76  |         |
| 10                                      | 50      | 0         |        |        | 21.75  |         |
| 10                                      | 1       | 0         | 16-QAM |        | 21.25  |         |
| 10                                      | 1       | 25        |        |        | 22.04  |         |
| 10                                      | 1       | 49        |        |        | 22.04  |         |
| 10                                      | 25      | 0         |        |        | 20.91  |         |
| 10                                      | 25      | 12        |        |        | 20.87  |         |
| 10                                      | 25      | 25        |        |        | 20.82  |         |
| 10                                      | 50      | 0         |        |        | 20.87  |         |
| 10                                      | 1       | 0         | 64-QAM |        | 20.93  |         |
| 10                                      | 1       | 25        |        |        | 21.57  |         |
| 10                                      | 1       | 49        |        |        | 21.56  |         |
| 10                                      | 25      | 0         |        |        | 20.45  |         |
| 10                                      | 25      | 12        |        |        | 20.41  |         |
| 10                                      | 25      | 25        |        |        | 20.29  |         |
| 10                                      | 50      | 0         |        |        | 20.43  |         |
| 5                                       | 1       | 0         | QPSK   | 22.14  | 22.75  | 22.71   |
| 5                                       | 1       | 12        |        | 22.42  | 22.70  | 22.77   |
| 5                                       | 1       | 24        |        | 22.74  | 22.70  | 22.79   |
| 5                                       | 12      | 0         |        | 21.72  | 21.79  | 21.74   |
| 5                                       | 12      | 7         |        | 21.83  | 21.79  | 21.75   |
| 5                                       | 12      | 13        |        | 21.79  | 21.74  | 21.84   |
| 5                                       | 25      | 0         |        | 21.79  | 21.74  | 21.73   |
| 5                                       | 1       | 0         | 16-QAM | 21.49  | 22.18  | 22.02   |
| 5                                       | 1       | 12        |        | 21.85  | 22.02  | 22.17   |
| 5                                       | 1       | 24        |        | 22.02  | 22.05  | 22.19   |
| 5                                       | 12      | 0         |        | 20.87  | 20.90  | 20.80   |
| 5                                       | 12      | 7         |        | 20.98  | 20.88  | 20.83   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.90 | 20.80 | 20.92 |
| 5 | 25 | 0  |        | 20.91 | 20.82 | 20.80 |
| 5 | 1  | 0  | 64-QAM | 21.21 | 21.62 | 21.52 |
| 5 | 1  | 12 |        | 21.23 | 21.53 | 21.55 |
| 5 | 1  | 24 |        | 21.58 | 21.49 | 21.49 |
| 5 | 12 | 0  |        | 20.40 | 20.46 | 20.32 |
| 5 | 12 | 7  |        | 20.52 | 20.41 | 20.38 |
| 5 | 12 | 13 |        | 20.40 | 20.37 | 20.29 |
| 5 | 25 | 0  |        | 20.39 | 20.33 | 20.30 |





| LTE Band 17 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.61  | 22.60  | 22.67   |
| 10                                      | 1       | 25        |        | 22.69  | 22.67  | 22.65   |
| 10                                      | 1       | 49        |        | 22.78  | 22.75  | 22.85   |
| 10                                      | 25      | 0         |        | 21.76  | 21.72  | 21.73   |
| 10                                      | 25      | 12        |        | 21.79  | 21.76  | 21.77   |
| 10                                      | 25      | 25        |        | 21.76  | 21.73  | 21.74   |
| 10                                      | 50      | 0         |        | 21.73  | 21.72  | 21.73   |
| 10                                      | 1       | 0         | 16-QAM | 21.98  | 21.99  | 22.09   |
| 10                                      | 1       | 25        |        | 22.08  | 22.07  | 22.05   |
| 10                                      | 1       | 49        |        | 22.08  | 22.05  | 22.03   |
| 10                                      | 25      | 0         |        | 20.84  | 20.86  | 20.85   |
| 10                                      | 25      | 12        |        | 20.86  | 20.84  | 20.83   |
| 10                                      | 25      | 25        |        | 20.81  | 20.79  | 20.81   |
| 10                                      | 50      | 0         |        | 20.85  | 20.84  | 20.83   |
| 10                                      | 1       | 0         | 64-QAM | 21.51  | 21.47  | 21.58   |
| 10                                      | 1       | 25        |        | 21.61  | 21.59  | 21.54   |
| 10                                      | 1       | 49        |        | 21.63  | 21.58  | 21.55   |
| 10                                      | 25      | 0         |        | 20.48  | 20.49  | 20.49   |
| 10                                      | 25      | 12        |        | 20.49  | 20.46  | 20.46   |
| 10                                      | 25      | 25        |        | 20.44  | 20.42  | 20.44   |
| 10                                      | 50      | 0         |        | 20.47  | 20.47  | 20.45   |
| 5                                       | 1       | 0         | QPSK   | 22.65  | 22.70  | 22.74   |
| 5                                       | 1       | 12        |        | 22.72  | 22.67  | 22.82   |
| 5                                       | 1       | 24        |        | 22.72  | 22.75  | 22.84   |
| 5                                       | 12      | 0         |        | 21.68  | 21.76  | 21.79   |
| 5                                       | 12      | 7         |        | 21.80  | 21.76  | 21.93   |
| 5                                       | 12      | 13        |        | 21.78  | 21.70  | 21.88   |
| 5                                       | 25      | 0         |        | 21.78  | 21.74  | 21.80   |
| 5                                       | 1       | 0         | 16-QAM | 22.03  | 22.05  | 22.08   |
| 5                                       | 1       | 12        |        | 22.11  | 22.08  | 22.12   |
| 5                                       | 1       | 24        |        | 22.16  | 22.08  | 22.07   |
| 5                                       | 12      | 0         |        | 20.81  | 20.86  | 20.92   |
| 5                                       | 12      | 7         |        | 20.93  | 20.86  | 20.99   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.89 | 20.83 | 20.93 |
| 5 | 25 | 0  |        | 20.90 | 20.81 | 20.88 |
| 5 | 1  | 0  | 64-QAM | 21.53 | 21.57 | 21.58 |
| 5 | 1  | 12 |        | 21.60 | 21.50 | 21.63 |
| 5 | 1  | 24 |        | 21.56 | 21.56 | 21.57 |
| 5 | 12 | 0  |        | 20.35 | 20.39 | 20.47 |
| 5 | 12 | 7  |        | 20.48 | 20.41 | 20.54 |
| 5 | 12 | 13 |        | 20.44 | 20.39 | 20.48 |
| 5 | 25 | 0  |        | 20.46 | 20.37 | 20.44 |



| LTE Band 38 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 22.65  | 22.60  | 22.38   |
| 20                                      | 1       | 49        |        | 22.51  | 22.46  | 22.28   |
| 20                                      | 1       | 99        |        | 22.55  | 22.42  | 22.22   |
| 20                                      | 50      | 0         |        | 21.67  | 21.62  | 21.39   |
| 20                                      | 50      | 24        |        | 21.61  | 21.55  | 21.36   |
| 20                                      | 50      | 50        |        | 21.57  | 21.56  | 21.33   |
| 20                                      | 100     | 0         |        | 21.59  | 21.59  | 21.35   |
| 20                                      | 1       | 0         | 16-QAM | 21.81  | 21.73  | 21.56   |
| 20                                      | 1       | 49        |        | 21.67  | 21.64  | 21.44   |
| 20                                      | 1       | 99        |        | 21.70  | 21.59  | 21.36   |
| 20                                      | 50      | 0         |        | 20.72  | 20.66  | 20.52   |
| 20                                      | 50      | 24        |        | 20.69  | 20.68  | 20.49   |
| 20                                      | 50      | 50        |        | 20.71  | 20.62  | 20.48   |
| 20                                      | 100     | 0         |        | 20.70  | 20.65  | 20.43   |
| 20                                      | 1       | 0         | 64-QAM | 21.06  | 21.01  | 20.83   |
| 20                                      | 1       | 49        |        | 20.92  | 20.88  | 20.71   |
| 20                                      | 1       | 99        |        | 20.95  | 20.85  | 20.60   |
| 20                                      | 50      | 0         |        | 20.16  | 20.13  | 19.95   |
| 20                                      | 50      | 24        |        | 20.14  | 20.15  | 19.94   |
| 20                                      | 50      | 50        |        | 20.14  | 20.07  | 19.92   |
| 20                                      | 100     | 0         |        | 20.22  | 20.19  | 19.99   |
| 15                                      | 1       | 0         | QPSK   | 22.64  | 22.64  | 22.38   |
| 15                                      | 1       | 37        |        | 22.57  | 22.51  | 22.31   |
| 15                                      | 1       | 74        |        | 22.58  | 22.43  | 22.21   |
| 15                                      | 36      | 0         |        | 21.61  | 21.60  | 21.35   |
| 15                                      | 36      | 20        |        | 21.61  | 21.58  | 21.38   |
| 15                                      | 36      | 39        |        | 21.55  | 21.55  | 21.33   |
| 15                                      | 75      | 0         |        | 21.60  | 21.60  | 21.34   |
| 15                                      | 1       | 0         | 16-QAM | 21.77  | 21.73  | 21.51   |
| 15                                      | 1       | 37        |        | 21.67  | 21.62  | 21.48   |
| 15                                      | 1       | 74        |        | 21.71  | 21.59  | 21.42   |
| 15                                      | 36      | 0         |        | 20.68  | 20.61  | 20.41   |
| 15                                      | 36      | 20        |        | 20.69  | 20.60  | 20.43   |
| 15                                      | 36      | 39        |        | 20.62  | 20.56  | 20.35   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 75 | 0  | 64-QAM | 20.71 | 20.64 | 20.50 |
| 15 | 1  | 0  |        | 21.14 | 21.09 | 20.87 |
| 15 | 1  | 37 |        | 21.03 | 20.98 | 20.84 |
| 15 | 1  | 74 |        | 21.05 | 20.92 | 20.72 |
| 15 | 36 | 0  |        | 20.29 | 20.21 | 20.04 |
| 15 | 36 | 20 |        | 20.28 | 20.23 | 20.06 |
| 15 | 36 | 39 |        | 20.24 | 20.18 | 19.98 |
| 15 | 75 | 0  |        | 20.31 | 20.21 | 20.04 |



| LTE Band 38 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.62  | 22.55  | 22.34   |
| 10                                      | 1       | 25        |        | 22.61  | 22.53  | 22.19   |
| 10                                      | 1       | 49        |        | 22.59  | 22.56  | 22.17   |
| 10                                      | 25      | 0         |        | 21.57  | 21.53  | 21.34   |
| 10                                      | 25      | 12        |        | 21.61  | 21.55  | 21.36   |
| 10                                      | 25      | 25        |        | 21.58  | 21.52  | 21.20   |
| 10                                      | 50      | 0         |        | 21.61  | 21.55  | 21.32   |
| 10                                      | 1       | 0         | 16-QAM | 21.74  | 21.67  | 21.44   |
| 10                                      | 1       | 25        |        | 21.68  | 21.65  | 21.34   |
| 10                                      | 1       | 49        |        | 21.63  | 21.60  | 21.29   |
| 10                                      | 25      | 0         |        | 20.67  | 20.66  | 20.44   |
| 10                                      | 25      | 12        |        | 20.71  | 20.63  | 20.46   |
| 10                                      | 25      | 25        |        | 20.67  | 20.63  | 20.36   |
| 10                                      | 50      | 0         |        | 20.68  | 20.66  | 20.41   |
| 10                                      | 1       | 0         | 64-QAM | 21.11  | 21.05  | 20.83   |
| 10                                      | 1       | 25        |        | 21.08  | 21.01  | 20.70   |
| 10                                      | 1       | 49        |        | 21.03  | 21.01  | 20.67   |
| 10                                      | 25      | 0         |        | 20.24  | 20.24  | 20.00   |
| 10                                      | 25      | 12        |        | 20.27  | 20.20  | 20.04   |
| 10                                      | 25      | 25        |        | 20.25  | 20.17  | 19.91   |
| 10                                      | 50      | 0         |        | 20.24  | 20.23  | 19.98   |
| 5                                       | 1       | 0         | QPSK   | 22.57  | 22.51  | 22.21   |
| 5                                       | 1       | 12        |        | 22.55  | 22.50  | 22.19   |
| 5                                       | 1       | 24        |        | 22.50  | 22.46  | 22.14   |
| 5                                       | 12      | 0         |        | 21.60  | 21.53  | 21.25   |
| 5                                       | 12      | 7         |        | 21.60  | 21.58  | 21.26   |
| 5                                       | 12      | 13        |        | 21.58  | 21.52  | 21.25   |
| 5                                       | 25      | 0         |        | 21.55  | 21.52  | 21.22   |
| 5                                       | 1       | 0         | 16-QAM | 21.66  | 21.61  | 21.31   |
| 5                                       | 1       | 12        |        | 21.66  | 21.61  | 21.31   |
| 5                                       | 1       | 24        |        | 21.65  | 21.60  | 21.31   |
| 5                                       | 12      | 0         |        | 20.64  | 20.57  | 20.29   |
| 5                                       | 12      | 7         |        | 20.66  | 20.58  | 20.34   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.63 | 20.57 | 20.27 |
| 5 | 25 | 0  |        | 20.67 | 20.58 | 20.35 |
| 5 | 1  | 0  | 64-QAM | 21.07 | 21.04 | 20.71 |
| 5 | 1  | 12 |        | 21.04 | 20.99 | 20.66 |
| 5 | 1  | 24 |        | 21.04 | 21.00 | 20.68 |
| 5 | 12 | 0  |        | 20.23 | 20.18 | 19.88 |
| 5 | 12 | 7  |        | 20.26 | 20.21 | 19.94 |
| 5 | 12 | 13 |        | 20.21 | 20.17 | 19.88 |
| 5 | 25 | 0  |        | 20.23 | 20.16 | 19.90 |



| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 26.27  | 26.52  | 26.52   |
| 20                                      | 1       | 49        |        | 26.28  | 26.34  | 26.40   |
| 20                                      | 1       | 99        |        | 26.32  | 26.30  | 26.21   |
| 20                                      | 50      | 0         |        | 25.50  | 25.39  | 25.49   |
| 20                                      | 50      | 24        |        | 25.40  | 25.45  | 25.46   |
| 20                                      | 50      | 50        |        | 25.43  | 25.40  | 25.32   |
| 20                                      | 100     | 0         |        | 25.40  | 25.37  | 25.46   |
| 20                                      | 1       | 0         | 16-QAM | 25.87  | 25.79  | 25.74   |
| 20                                      | 1       | 49        |        | 25.66  | 25.66  | 25.57   |
| 20                                      | 1       | 99        |        | 25.74  | 25.57  | 25.37   |
| 20                                      | 50      | 0         |        | 24.57  | 24.46  | 24.61   |
| 20                                      | 50      | 24        |        | 24.54  | 24.65  | 24.57   |
| 20                                      | 50      | 50        |        | 24.52  | 24.69  | 24.39   |
| 20                                      | 100     | 0         |        | 24.54  | 24.59  | 24.54   |
| 20                                      | 1       | 0         | 64-QAM | 25.33  | 25.27  | 25.47   |
| 20                                      | 1       | 49        |        | 25.20  | 25.40  | 25.29   |
| 20                                      | 1       | 99        |        | 25.25  | 25.42  | 25.10   |
| 20                                      | 50      | 0         |        | 24.21  | 24.39  | 24.36   |
| 20                                      | 50      | 24        |        | 24.29  | 24.26  | 24.34   |
| 20                                      | 50      | 50        |        | 24.20  | 24.30  | 24.13   |
| 20                                      | 100     | 0         |        | 24.35  | 24.41  | 24.37   |
| 15                                      | 1       | 0         | QPSK   | 26.27  | 26.35  | 26.11   |
| 15                                      | 1       | 37        |        | 26.28  | 26.37  | 26.15   |
| 15                                      | 1       | 74        |        | 26.36  | 26.45  | 26.09   |
| 15                                      | 36      | 0         |        | 25.28  | 25.40  | 25.27   |
| 15                                      | 36      | 20        |        | 25.26  | 25.42  | 25.21   |
| 15                                      | 36      | 39        |        | 25.37  | 25.40  | 25.11   |
| 15                                      | 75      | 0         |        | 25.35  | 25.41  | 25.24   |
| 15                                      | 1       | 0         | 16-QAM | 25.53  | 25.69  | 25.34   |
| 15                                      | 1       | 37        |        | 25.53  | 25.64  | 25.23   |
| 15                                      | 1       | 74        |        | 25.63  | 25.81  | 25.23   |
| 15                                      | 36      | 0         |        | 24.35  | 24.48  | 24.27   |
| 15                                      | 36      | 20        |        | 24.37  | 24.50  | 24.26   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 24.42 | 24.52 | 24.16 |
| 15 | 75 | 0  |        | 24.51 | 24.49 | 24.32 |
| 15 | 1  | 0  | 64-QAM | 25.31 | 25.42 | 25.08 |
| 15 | 1  | 37 |        | 25.26 | 25.37 | 25.03 |
| 15 | 1  | 74 |        | 25.38 | 25.50 | 25.05 |
| 15 | 36 | 0  |        | 24.23 | 24.37 | 24.10 |
| 15 | 36 | 20 |        | 24.25 | 24.40 | 24.15 |
| 15 | 36 | 39 |        | 24.31 | 24.39 | 24.06 |
| 15 | 75 | 0  |        | 24.35 | 24.35 | 24.17 |





| LTE Band 41 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 26.34  | 26.29  | 26.50   |
| 10                                      | 1       | 25        |        | 26.29  | 26.29  | 26.09   |
| 10                                      | 1       | 49        |        | 26.20  | 26.32  | 26.62   |
| 10                                      | 25      | 0         |        | 25.22  | 25.33  | 25.27   |
| 10                                      | 25      | 12        |        | 25.26  | 25.39  | 25.19   |
| 10                                      | 25      | 25        |        | 25.24  | 25.39  | 25.27   |
| 10                                      | 50      | 0         |        | 25.28  | 25.39  | 25.30   |
| 10                                      | 1       | 0         | 16-QAM | 25.54  | 25.65  | 25.83   |
| 10                                      | 1       | 25        |        | 25.55  | 25.67  | 25.27   |
| 10                                      | 1       | 49        |        | 25.53  | 25.73  | 25.80   |
| 10                                      | 25      | 0         |        | 24.40  | 24.51  | 24.38   |
| 10                                      | 25      | 12        |        | 24.45  | 24.54  | 24.25   |
| 10                                      | 25      | 25        |        | 24.41  | 24.53  | 24.38   |
| 10                                      | 50      | 0         |        | 24.36  | 24.51  | 24.41   |
| 10                                      | 1       | 0         | 64-QAM | 25.28  | 25.36  | 25.50   |
| 10                                      | 1       | 25        |        | 25.26  | 25.42  | 25.04   |
| 10                                      | 1       | 49        |        | 25.26  | 25.42  | 25.40   |
| 10                                      | 25      | 0         |        | 24.21  | 24.29  | 24.18   |
| 10                                      | 25      | 12        |        | 24.24  | 24.36  | 24.04   |
| 10                                      | 25      | 25        |        | 24.24  | 24.33  | 24.17   |
| 10                                      | 50      | 0         |        | 24.15  | 24.31  | 24.19   |
| 5                                       | 1       | 0         | QPSK   | 26.30  | 26.44  | 26.15   |
| 5                                       | 1       | 12        |        | 26.34  | 26.46  | 26.15   |
| 5                                       | 1       | 24        |        | 26.32  | 26.42  | 26.10   |
| 5                                       | 12      | 0         |        | 25.22  | 25.36  | 25.12   |
| 5                                       | 12      | 7         |        | 25.28  | 25.35  | 25.14   |
| 5                                       | 12      | 13        |        | 25.27  | 25.40  | 25.14   |
| 5                                       | 25      | 0         |        | 25.23  | 25.36  | 25.18   |
| 5                                       | 1       | 0         | 16-QAM | 25.52  | 25.67  | 25.19   |
| 5                                       | 1       | 12        |        | 25.53  | 25.66  | 25.21   |
| 5                                       | 1       | 24        |        | 25.49  | 25.66  | 25.21   |
| 5                                       | 12      | 0         |        | 24.39  | 24.53  | 24.13   |
| 5                                       | 12      | 7         |        | 24.44  | 24.51  | 24.17   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 24.37 | 24.51 | 24.17 |
| 5 | 25 | 0  |        | 24.42 | 24.52 | 24.14 |
| 5 | 1  | 0  | 64-QAM | 25.27 | 25.40 | 25.00 |
| 5 | 1  | 12 |        | 25.26 | 25.37 | 24.98 |
| 5 | 1  | 24 |        | 25.22 | 25.36 | 25.01 |
| 5 | 12 | 0  |        | 24.20 | 24.32 | 23.95 |
| 5 | 12 | 7  |        | 24.23 | 24.34 | 23.99 |
| 5 | 12 | 13 |        | 24.21 | 24.30 | 23.97 |
| 5 | 25 | 0  |        | 24.20 | 24.30 | 23.93 |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 22.38  | 22.79  | 23.02   |
| 20                                      | 1       | 49        |        | 22.52  | 22.65  | 22.96   |
| 20                                      | 1       | 99        |        | 22.33  | 22.63  | 22.19   |
| 20                                      | 50      | 0         |        | 22.00  | 21.86  | 21.86   |
| 20                                      | 50      | 24        |        | 21.94  | 21.90  | 22.44   |
| 20                                      | 50      | 50        |        | 21.89  | 21.84  | 22.11   |
| 20                                      | 100     | 0         |        | 22.00  | 21.89  | 22.21   |
| 20                                      | 1       | 0         | 16-QAM | 21.93  | 22.43  | 22.60   |
| 20                                      | 1       | 49        |        | 22.01  | 22.17  | 22.38   |
| 20                                      | 1       | 99        |        | 21.91  | 22.12  | 22.64   |
| 20                                      | 50      | 0         |        | 21.39  | 20.90  | 21.38   |
| 20                                      | 50      | 24        |        | 21.31  | 20.94  | 21.32   |
| 20                                      | 50      | 50        |        | 21.27  | 20.89  | 21.21   |
| 20                                      | 100     | 0         |        | 21.24  | 20.93  | 21.28   |
| 20                                      | 1       | 0         | 64-QAM | 21.30  | 21.34  | 21.36   |
| 20                                      | 1       | 49        |        | 21.08  | 21.09  | 21.50   |
| 20                                      | 1       | 99        |        | 20.94  | 21.06  | 21.39   |
| 20                                      | 50      | 0         |        | 20.55  | 20.07  | 20.56   |
| 20                                      | 50      | 24        |        | 20.50  | 20.15  | 20.46   |
| 20                                      | 50      | 50        |        | 20.33  | 20.12  | 20.40   |
| 20                                      | 100     | 0         |        | 20.44  | 20.17  | 20.52   |
| 15                                      | 1       | 0         | QPSK   | 22.95  | 22.85  | 23.01   |
| 15                                      | 1       | 37        |        | 22.76  | 22.65  | 22.87   |
| 15                                      | 1       | 74        |        | 22.48  | 22.72  | 22.35   |
| 15                                      | 36      | 0         |        | 21.90  | 21.77  | 21.94   |
| 15                                      | 36      | 20        |        | 21.81  | 21.74  | 21.90   |
| 15                                      | 36      | 39        |        | 21.81  | 21.65  | 21.94   |
| 15                                      | 75      | 0         |        | 21.85  | 21.70  | 21.91   |
| 15                                      | 1       | 0         | 16-QAM | 22.25  | 22.28  | 22.22   |
| 15                                      | 1       | 37        |        | 22.14  | 22.03  | 22.15   |
| 15                                      | 1       | 74        |        | 21.76  | 22.07  | 21.82   |
| 15                                      | 36      | 0         |        | 21.01  | 20.87  | 21.00   |
| 15                                      | 36      | 20        |        | 20.95  | 20.84  | 20.97   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 20.93 | 20.73 | 21.03 |
| 15 | 75 | 0  |        | 20.94 | 20.81 | 20.95 |
| 15 | 1  | 0  | 64-QAM | 21.35 | 21.36 | 21.37 |
| 15 | 1  | 37 |        | 21.25 | 21.11 | 21.30 |
| 15 | 1  | 74 |        | 20.81 | 21.17 | 20.75 |
| 15 | 36 | 0  |        | 20.20 | 20.08 | 20.24 |
| 15 | 36 | 20 |        | 20.17 | 20.06 | 20.16 |
| 15 | 36 | 39 |        | 20.13 | 19.96 | 20.22 |
| 15 | 75 | 0  |        | 20.16 | 20.03 | 20.20 |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 22.92  | 22.76  | 22.91   |
| 10                                      | 1       | 25        |        | 22.80  | 22.68  | 22.87   |
| 10                                      | 1       | 49        |        | 22.75  | 22.65  | 22.99   |
| 10                                      | 25      | 0         |        | 21.87  | 21.79  | 21.86   |
| 10                                      | 25      | 12        |        | 21.87  | 21.74  | 21.96   |
| 10                                      | 25      | 25        |        | 21.79  | 21.69  | 21.86   |
| 10                                      | 50      | 0         |        | 21.85  | 21.70  | 21.84   |
| 10                                      | 1       | 0         | 16-QAM | 22.20  | 22.15  | 22.19   |
| 10                                      | 1       | 25        |        | 22.14  | 22.03  | 22.17   |
| 10                                      | 1       | 49        |        | 22.15  | 21.98  | 22.02   |
| 10                                      | 25      | 0         |        | 21.01  | 20.87  | 20.93   |
| 10                                      | 25      | 12        |        | 20.95  | 20.83  | 21.03   |
| 10                                      | 25      | 25        |        | 20.88  | 20.80  | 20.99   |
| 10                                      | 50      | 0         |        | 20.96  | 20.81  | 20.95   |
| 10                                      | 1       | 0         | 64-QAM | 21.34  | 21.26  | 21.26   |
| 10                                      | 1       | 25        |        | 21.28  | 21.16  | 21.31   |
| 10                                      | 1       | 49        |        | 21.25  | 21.10  | 21.13   |
| 10                                      | 25      | 0         |        | 20.19  | 20.11  | 20.19   |
| 10                                      | 25      | 12        |        | 20.16  | 20.06  | 20.26   |
| 10                                      | 25      | 25        |        | 20.17  | 20.02  | 20.17   |
| 10                                      | 50      | 0         |        | 20.17  | 20.02  | 20.12   |
| 5                                       | 1       | 0         | QPSK   | 22.78  | 22.67  | 22.69   |
| 5                                       | 1       | 12        |        | 22.71  | 22.61  | 22.74   |
| 5                                       | 1       | 24        |        | 22.74  | 22.62  | 22.87   |
| 5                                       | 12      | 0         |        | 21.83  | 21.66  | 21.93   |
| 5                                       | 12      | 7         |        | 21.80  | 21.66  | 21.96   |
| 5                                       | 12      | 13        |        | 21.78  | 21.63  | 21.92   |
| 5                                       | 25      | 0         |        | 21.78  | 21.64  | 21.94   |
| 5                                       | 1       | 0         | 16-QAM | 22.15  | 21.99  | 22.28   |
| 5                                       | 1       | 12        |        | 22.10  | 22.02  | 22.23   |
| 5                                       | 1       | 24        |        | 22.11  | 21.99  | 22.20   |
| 5                                       | 12      | 0         |        | 20.90  | 20.76  | 21.04   |
| 5                                       | 12      | 7         |        | 20.95  | 20.78  | 21.05   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 20.90 | 20.74 | 20.99 |
| 5 | 25 | 0  |        | 20.90 | 20.73 | 20.97 |
| 5 | 1  | 0  | 64-QAM | 21.33 | 21.21 | 21.49 |
| 5 | 1  | 12 |        | 21.25 | 21.14 | 21.21 |
| 5 | 1  | 24 |        | 21.28 | 21.14 | 21.39 |
| 5 | 12 | 0  |        | 20.19 | 20.03 | 20.29 |
| 5 | 12 | 7  |        | 20.19 | 20.06 | 20.29 |
| 5 | 12 | 13 |        | 20.17 | 20.01 | 20.29 |
| 5 | 25 | 0  |        | 20.17 | 20.02 | 20.31 |



| LTE Band 66 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 3                                       | 1       | 0         | QPSK   | 22.80  | 22.67  | 22.91   |
| 3                                       | 1       | 8         |        | 22.75  | 22.67  | 22.86   |
| 3                                       | 1       | 14        |        | 22.77  | 22.65  | 22.84   |
| 3                                       | 8       | 0         |        | 21.86  | 21.73  | 21.88   |
| 3                                       | 8       | 4         |        | 21.85  | 21.75  | 21.92   |
| 3                                       | 8       | 7         |        | 21.82  | 21.71  | 21.89   |
| 3                                       | 15      | 0         |        | 21.79  | 21.72  | 21.88   |
| 3                                       | 1       | 0         | 16-QAM | 22.13  | 22.12  | 22.18   |
| 3                                       | 1       | 8         |        | 22.12  | 22.07  | 22.21   |
| 3                                       | 1       | 14        |        | 22.08  | 21.99  | 22.19   |
| 3                                       | 8       | 0         |        | 20.93  | 20.88  | 21.06   |
| 3                                       | 8       | 4         |        | 20.98  | 20.90  | 21.07   |
| 3                                       | 8       | 7         |        | 20.96  | 20.86  | 21.04   |
| 3                                       | 15      | 0         |        | 20.93  | 20.79  | 21.00   |
| 3                                       | 1       | 0         | 64-QAM | 21.01  | 21.15  | 21.18   |
| 3                                       | 1       | 8         |        | 21.08  | 21.15  | 21.17   |
| 3                                       | 1       | 14        |        | 21.00  | 21.08  | 21.08   |
| 3                                       | 8       | 0         |        | 20.11  | 20.02  | 20.17   |
| 3                                       | 8       | 4         |        | 20.13  | 20.03  | 20.19   |
| 3                                       | 8       | 7         |        | 20.11  | 20.01  | 20.16   |
| 3                                       | 15      | 0         |        | 20.09  | 19.96  | 20.19   |
| 1.4                                     | 1       | 0         | QPSK   | 22.72  | 22.58  | 22.83   |
| 1.4                                     | 1       | 3         |        | 22.78  | 22.67  | 22.81   |
| 1.4                                     | 1       | 5         |        | 22.70  | 22.59  | 22.66   |
| 1.4                                     | 3       | 0         |        | 22.77  | 22.68  | 22.81   |
| 1.4                                     | 3       | 1         |        | 22.78  | 22.72  | 22.78   |
| 1.4                                     | 3       | 3         |        | 22.72  | 22.66  | 22.64   |
| 1.4                                     | 6       | 0         |        | 21.77  | 21.66  | 21.83   |
| 1.4                                     | 1       | 0         | 16-QAM | 22.07  | 21.98  | 22.11   |
| 1.4                                     | 1       | 3         |        | 22.11  | 21.98  | 22.08   |
| 1.4                                     | 1       | 5         |        | 22.02  | 21.92  | 21.90   |
| 1.4                                     | 3       | 0         |        | 21.81  | 21.76  | 21.86   |
| 1.4                                     | 3       | 1         |        | 21.87  | 21.78  | 21.87   |



|     |   |   |        |       |       |       |
|-----|---|---|--------|-------|-------|-------|
| 1.4 | 3 | 3 |        | 21.83 | 21.70 | 21.73 |
| 1.4 | 6 | 0 |        | 20.89 | 20.83 | 20.99 |
| 1.4 | 1 | 0 | 64-QAM | 21.13 | 21.06 | 21.23 |
| 1.4 | 1 | 3 |        | 21.20 | 21.11 | 21.08 |
| 1.4 | 1 | 5 |        | 21.15 | 21.03 | 20.94 |
| 1.4 | 3 | 0 |        | 21.10 | 20.97 | 21.03 |
| 1.4 | 3 | 1 |        | 21.12 | 21.03 | 21.05 |
| 1.4 | 3 | 3 |        | 21.05 | 20.97 | 20.91 |
| 1.4 | 6 | 0 |        | 20.06 | 19.94 | 20.14 |





| LTE Band 71 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 20                                      | 1       | 0         | QPSK   | 23.23  | 23.27  | 23.33   |
| 20                                      | 1       | 49        |        | 23.20  | 23.23  | 23.27   |
| 20                                      | 1       | 99        |        | 23.12  | 23.16  | 23.13   |
| 20                                      | 50      | 0         |        | 22.31  | 22.33  | 22.34   |
| 20                                      | 50      | 24        |        | 22.30  | 22.27  | 22.27   |
| 20                                      | 50      | 50        |        | 22.26  | 22.22  | 22.23   |
| 20                                      | 100     | 0         |        | 22.24  | 22.27  | 22.25   |
| 20                                      | 1       | 0         | 16-QAM | 22.50  | 22.60  | 22.53   |
| 20                                      | 1       | 49        |        | 22.46  | 22.58  | 22.67   |
| 20                                      | 1       | 99        |        | 22.34  | 22.49  | 22.44   |
| 20                                      | 50      | 0         |        | 21.35  | 21.40  | 21.33   |
| 20                                      | 50      | 24        |        | 21.34  | 21.33  | 21.35   |
| 20                                      | 50      | 50        |        | 21.33  | 21.27  | 21.34   |
| 20                                      | 100     | 0         |        | 21.32  | 21.28  | 21.28   |
| 20                                      | 1       | 0         | 64-QAM | 21.44  | 21.54  | 21.47   |
| 20                                      | 1       | 49        |        | 21.40  | 21.45  | 21.50   |
| 20                                      | 1       | 99        |        | 21.15  | 21.43  | 21.46   |
| 20                                      | 50      | 0         |        | 20.36  | 20.40  | 20.36   |
| 20                                      | 50      | 24        |        | 20.34  | 20.32  | 20.35   |
| 20                                      | 50      | 50        |        | 20.30  | 20.29  | 20.35   |
| 20                                      | 100     | 0         |        | 20.26  | 20.30  | 20.33   |
| 15                                      | 1       | 0         | QPSK   | 23.18  | 23.31  | 23.28   |
| 15                                      | 1       | 37        |        | 23.14  | 23.18  | 23.15   |
| 15                                      | 1       | 74        |        | 23.06  | 23.18  | 23.10   |
| 15                                      | 36      | 0         |        | 22.32  | 22.31  | 22.28   |
| 15                                      | 36      | 20        |        | 22.27  | 22.25  | 22.21   |
| 15                                      | 36      | 39        |        | 22.19  | 22.18  | 22.10   |
| 15                                      | 75      | 0         |        | 22.31  | 22.27  | 22.24   |
| 15                                      | 1       | 0         | 16-QAM | 22.40  | 22.57  | 22.45   |
| 15                                      | 1       | 37        |        | 22.43  | 22.44  | 22.31   |
| 15                                      | 1       | 74        |        | 22.38  | 22.51  | 22.41   |
| 15                                      | 36      | 0         |        | 21.32  | 21.36  | 21.32   |
| 15                                      | 36      | 20        |        | 21.36  | 21.28  | 21.20   |



|    |    |    |        |       |       |       |
|----|----|----|--------|-------|-------|-------|
| 15 | 36 | 39 |        | 21.27 | 21.19 | 21.12 |
| 15 | 75 | 0  |        | 21.31 | 21.28 | 21.20 |
| 15 | 1  | 0  | 64-QAM | 21.48 | 21.47 | 21.34 |
| 15 | 1  | 37 |        | 21.43 | 21.38 | 21.42 |
| 15 | 1  | 74 |        | 21.30 | 21.44 | 21.36 |
| 15 | 36 | 0  |        | 20.36 | 20.42 | 20.45 |
| 15 | 36 | 20 |        | 20.34 | 20.30 | 20.36 |
| 15 | 36 | 39 |        | 20.31 | 20.21 | 20.20 |
| 15 | 75 | 0  |        | 20.34 | 20.31 | 20.29 |



| LTE Band 71 Maximum Average Power [dBm] |         |           |        |        |        |         |
|-----------------------------------------|---------|-----------|--------|--------|--------|---------|
| BW [MHz]                                | RB Size | RB Offset | Mod    | Lowest | Middle | Highest |
| 10                                      | 1       | 0         | QPSK   | 23.23  | 23.28  | 23.30   |
| 10                                      | 1       | 25        |        | 23.21  | 23.26  | 23.29   |
| 10                                      | 1       | 49        |        | 23.12  | 23.17  | 23.12   |
| 10                                      | 25      | 0         |        | 22.33  | 22.39  | 22.39   |
| 10                                      | 25      | 12        |        | 22.31  | 22.37  | 22.41   |
| 10                                      | 25      | 25        |        | 22.25  | 22.29  | 22.28   |
| 10                                      | 50      | 0         |        | 22.20  | 22.33  | 22.39   |
| 10                                      | 1       | 0         | 16-QAM | 22.48  | 22.54  | 22.50   |
| 10                                      | 1       | 25        |        | 22.32  | 22.49  | 22.41   |
| 10                                      | 1       | 49        |        | 22.12  | 22.28  | 22.31   |
| 10                                      | 25      | 0         |        | 21.32  | 21.42  | 21.40   |
| 10                                      | 25      | 12        |        | 21.29  | 21.38  | 21.35   |
| 10                                      | 25      | 25        |        | 21.32  | 21.35  | 21.39   |
| 10                                      | 50      | 0         |        | 21.34  | 21.37  | 21.35   |
| 10                                      | 1       | 0         | 64-QAM | 21.39  | 21.40  | 21.36   |
| 10                                      | 1       | 25        |        | 21.41  | 21.43  | 21.46   |
| 10                                      | 1       | 49        |        | 21.24  | 21.32  | 21.29   |
| 10                                      | 25      | 0         |        | 20.39  | 20.43  | 20.40   |
| 10                                      | 25      | 12        |        | 20.40  | 20.41  | 20.34   |
| 10                                      | 25      | 25        |        | 20.21  | 20.29  | 20.24   |
| 10                                      | 50      | 0         |        | 20.34  | 20.40  | 20.45   |
| 5                                       | 1       | 0         | QPSK   | 23.20  | 23.29  | 23.31   |
| 5                                       | 1       | 12        |        | 23.11  | 23.22  | 23.30   |
| 5                                       | 1       | 24        |        | 23.10  | 23.17  | 23.21   |
| 5                                       | 12      | 0         |        | 22.18  | 22.29  | 22.20   |
| 5                                       | 12      | 7         |        | 22.20  | 22.29  | 22.21   |
| 5                                       | 12      | 13        |        | 22.13  | 22.23  | 22.29   |
| 5                                       | 25      | 0         |        | 22.24  | 22.31  | 22.34   |
| 5                                       | 1       | 0         | 16-QAM | 22.42  | 22.52  | 22.50   |
| 5                                       | 1       | 12        |        | 22.37  | 22.41  | 22.34   |
| 5                                       | 1       | 24        |        | 22.30  | 22.39  | 22.30   |
| 5                                       | 12      | 0         |        | 21.19  | 21.25  | 21.20   |
| 5                                       | 12      | 7         |        | 21.30  | 21.35  | 21.32   |



|   |    |    |        |       |       |       |
|---|----|----|--------|-------|-------|-------|
| 5 | 12 | 13 |        | 21.18 | 21.20 | 21.19 |
| 5 | 25 | 0  |        | 21.20 | 21.29 | 21.24 |
| 5 | 1  | 0  | 64-QAM | 21.35 | 21.47 | 21.52 |
| 5 | 1  | 12 |        | 21.29 | 21.33 | 21.39 |
| 5 | 1  | 24 |        | 21.24 | 21.32 | 21.33 |
| 5 | 12 | 0  |        | 20.31 | 20.37 | 20.40 |
| 5 | 12 | 7  |        | 20.30 | 20.32 | 20.39 |
| 5 | 12 | 13 |        | 20.21 | 20.24 | 20.21 |
| 5 | 25 | 0  |        | 20.29 | 20.32 | 20.30 |

**CA Power**

| CA_5B                               |             |            |         |           |         |           |               |                      |
|-------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 10MHz+10MHz (50RB+50RB) |             |            |         |           |         |           |               |                      |
| PCC Channel                         | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                     |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 20450                               | 20549       | QPSK       | 0       | 0         | 1       | 49        | 1             | 23.44                |
|                                     |             |            | 1       | 0         | 0       | 0         | 1             | 23.41                |
|                                     |             |            | 50      | 0         | 0       | 0         | 50            | 22.55                |
|                                     |             |            | 50      | 0         | 50      | 0         | 100           | 21.47                |
|                                     |             |            | 1       | 0         | 1       | 49        | 2             | 12.98                |
|                                     |             |            | 1       | 0         | 1       | 0         | 2             | 12.96                |
|                                     |             |            | 1       | 49        | 1       | 0         | 2             | 23.6                 |
|                                     |             |            | 50      | 0         | 1       | 49        | 51            | 18.49                |
|                                     |             | 16QAM      | 0       | 0         | 1       | 49        | 1             | 23.21                |
|                                     |             |            | 1       | 0         | 0       | 0         | 1             | 22.9                 |
|                                     |             |            | 50      | 0         | 0       | 0         | 50            | 21.61                |
|                                     |             |            | 50      | 0         | 50      | 0         | 100           | 20.58                |
|                                     |             |            | 1       | 0         | 1       | 49        | 2             | 13.56                |
|                                     |             |            | 1       | 0         | 1       | 0         | 2             | 13.44                |
|                                     |             |            | 1       | 49        | 1       | 0         | 2             | 23.02                |
|                                     |             |            | 50      | 0         | 1       | 49        | 51            | 18.61                |
|                                     |             | 64QAM      | 0       | 0         | 1       | 49        | 1             | 21.94                |
|                                     |             |            | 1       | 0         | 0       | 0         | 1             | 21.74                |
|                                     |             |            | 50      | 0         | 0       | 0         | 50            | 20.58                |
|                                     |             |            | 50      | 0         | 50      | 0         | 100           | 20.59                |
|                                     |             |            | 1       | 0         | 1       | 49        | 2             | 13.33                |
|                                     |             |            | 1       | 0         | 1       | 0         | 2             | 13.15                |
|                                     |             |            | 1       | 49        | 1       | 0         | 2             | 20.83                |
|                                     |             |            | 50      | 0         | 1       | 49        | 51            | 18.54                |



|       |       |       |    |    |    |    |     |       |
|-------|-------|-------|----|----|----|----|-----|-------|
| 20476 | 20575 | QPSK  | 0  | 0  | 1  | 49 | 1   | 23.46 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 23.5  |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 22.63 |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 21.57 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.02 |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 13.04 |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 23.56 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.56 |
|       |       | 16QAM | 0  | 0  | 1  | 49 | 1   | 23.02 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 22.93 |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 21.69 |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 20.65 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.47 |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 13.5  |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 23.02 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.66 |
|       |       | 64QAM | 0  | 0  | 1  | 49 | 1   | 21.87 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 21.85 |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 20.68 |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 20.63 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.3  |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 13.31 |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 20.88 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.62 |



|       |       |       |    |    |    |    |     |       |
|-------|-------|-------|----|----|----|----|-----|-------|
| 20501 | 20600 | QPSK  | 0  | 0  | 1  | 49 | 1   | 23.41 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 23.48 |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 22.57 |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 21.53 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.02 |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 12.99 |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 23.48 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.49 |
|       |       | 16QAM | 0  | 0  | 1  | 49 | 1   | 23.02 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 22.8  |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 21.6  |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 20.57 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.36 |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 13.32 |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 23.05 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.61 |
|       |       | 64QAM | 0  | 0  | 1  | 49 | 1   | 21.76 |
|       |       |       | 1  | 0  | 0  | 0  | 1   | 21.71 |
|       |       |       | 50 | 0  | 0  | 0  | 50  | 20.6  |
|       |       |       | 50 | 0  | 50 | 0  | 100 | 20.56 |
|       |       |       | 1  | 0  | 1  | 49 | 2   | 13.24 |
|       |       |       | 1  | 0  | 1  | 0  | 2   | 13.16 |
|       |       |       | 1  | 49 | 1  | 0  | 2   | 20.76 |
|       |       |       | 50 | 0  | 1  | 49 | 51  | 18.54 |



| CA_5B                              |             |            |         |           |         |           |               |                      |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 10MHz+5MHz (50RB+25RB) |             |            |         |           |         |           |               |                      |
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 20450                              | 20522       | QPSK       | 50      | 0         | 25      | 0         | 75            | 21.44                |
|                                    |             | QPSK       | 1       | 0         | 1       | 24        | 2             | 12.84                |
|                                    |             | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.47                |
|                                    |             | 16QAM      | 50      | 0         | 25      | 0         | 75            | 20.45                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | 13.19                |
|                                    |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.81                |
|                                    |             | 64QAM      | 50      | 0         | 25      | 0         | 75            | 20.48                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | 13.13                |
|                                    |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.78                |
| 20500                              | 20572       | QPSK       | 50      | 0         | 25      | 0         | 75            | 21.45                |
|                                    |             | QPSK       | 1       | 0         | 1       | 24        | 2             | 12.92                |
|                                    |             | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.37                |
|                                    |             | 16QAM      | 50      | 0         | 25      | 0         | 75            | 20.49                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | 13.31                |
|                                    |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.96                |
|                                    |             | 64QAM      | 50      | 0         | 25      | 0         | 75            | 20.54                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | 13.13                |
|                                    |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.71                |
| 20550                              | 20622       | QPSK       | 50      | 0         | 25      | 0         | 75            | 21.42                |
|                                    |             | QPSK       | 1       | 0         | 1       | 24        | 2             | 12.92                |
|                                    |             | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.41                |
|                                    |             | 16QAM      | 50      | 0         | 25      | 0         | 75            | 20.55                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 24        | 2             | 13.51                |
|                                    |             | 16QAM      | 1       | 49        | 1       | 0         | 2             | 23.02                |
|                                    |             | 64QAM      | 50      | 0         | 25      | 0         | 75            | 20.55                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 24        | 2             | 13.19                |
|                                    |             | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.91                |





| Combination 5MHz+10MHz (25RB+50RB) |             |            |         |           |         |           |               |                      |
|------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC Channel                        | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                    |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 20428                              | 20500       | QPSK       | 25      | 0         | 50      | 0         | 75            | 21.43                |
|                                    |             | QPSK       | 1       | 0         | 1       | 49        | 2             | 12.84                |
|                                    |             | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.4                 |
|                                    |             | 16QAM      | 25      | 0         | 50      | 0         | 75            | 20.51                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | 13.38                |
|                                    |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.81                |
|                                    |             | 64QAM      | 25      | 0         | 50      | 0         | 75            | 20.49                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | 13.18                |
|                                    |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.59                |
| 20478                              | 20550       | QPSK       | 25      | 0         | 50      | 0         | 75            | 21.48                |
|                                    |             | QPSK       | 1       | 0         | 1       | 49        | 2             | 12.91                |
|                                    |             | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.46                |
|                                    |             | 16QAM      | 25      | 0         | 50      | 0         | 75            | 20.53                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | 13.35                |
|                                    |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.91                |
|                                    |             | 64QAM      | 25      | 0         | 50      | 0         | 75            | 20.56                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | 13.21                |
|                                    |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.72                |
| 20528                              | 20600       | QPSK       | 25      | 0         | 50      | 0         | 75            | 21.42                |
|                                    |             | QPSK       | 1       | 0         | 1       | 49        | 2             | 12.92                |
|                                    |             | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.38                |
|                                    |             | 16QAM      | 25      | 0         | 50      | 0         | 75            | 20.52                |
|                                    |             | 16QAM      | 1       | 0         | 1       | 49        | 2             | 13.44                |
|                                    |             | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.84                |
|                                    |             | 64QAM      | 25      | 0         | 50      | 0         | 75            | 20.51                |
|                                    |             | 64QAM      | 1       | 0         | 1       | 49        | 2             | 13.25                |
|                                    |             | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.72                |



| CA_41C                                |             |            |         |           |         |           |               |                      |
|---------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 20MHz+20MHz (100RB+100RB) |             |            |         |           |         |           |               |                      |
| PCC Channel                           | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                       |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                 | 39948       | QPSK       | 0       | 0         | 1       | 99        | 1             | 23.31                |
|                                       |             |            | 1       | 0         | 0       | 0         | 1             | 22.98                |
|                                       |             |            | 100     | 0         | 0       | 0         | 100           | 22.3                 |
|                                       |             |            | 100     | 0         | 100     | 0         | 200           | 21.37                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | 14.68                |
|                                       |             |            | 1       | 0         | 1       | 0         | 2             | 18.75                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | 23.46                |
|                                       |             |            | 100     | 0         | 1       | 99        | 101           | 19.81                |
|                                       |             | 16QAM      | 0       | 0         | 1       | 99        | 1             | 22.42                |
|                                       |             |            | 1       | 0         | 0       | 0         | 1             | 22.08                |
|                                       |             |            | 100     | 0         | 0       | 0         | 100           | 21.4                 |
|                                       |             |            | 100     | 0         | 100     | 0         | 200           | 20.45                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | 14.76                |
|                                       |             |            | 1       | 0         | 1       | 0         | 2             | 18.85                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | 22.57                |
|                                       |             |            | 100     | 0         | 1       | 99        | 101           | 19.92                |
|                                       |             | 64QAM      | 0       | 0         | 1       | 99        | 1             | 21.1                 |
|                                       |             |            | 1       | 0         | 0       | 0         | 1             | 20.68                |
|                                       |             |            | 100     | 0         | 0       | 0         | 100           | 20.36                |
|                                       |             |            | 100     | 0         | 100     | 0         | 200           | 20.45                |
|                                       |             |            | 1       | 0         | 1       | 99        | 2             | 14.36                |
|                                       |             |            | 1       | 0         | 1       | 0         | 2             | 18.46                |
|                                       |             |            | 1       | 99        | 1       | 0         | 2             | 20.17                |
|                                       |             |            | 100     | 0         | 1       | 99        | 101           | 19.72                |

|       |       |       |     |    |     |    |     |       |
|-------|-------|-------|-----|----|-----|----|-----|-------|
| 40521 | 40719 | QPSK  | 0   | 0  | 1   | 99 | 1   | 23.24 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 23.34 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 22.4  |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 21.36 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 19.82 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 21.37 |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 23.37 |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.82 |
|       |       | 16QAM | 0   | 0  | 1   | 99 | 1   | 22.37 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 22.38 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 21.45 |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 20.44 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 19.92 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 20.47 |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 22.44 |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.92 |
|       |       | 64QAM | 0   | 0  | 1   | 99 | 1   | 20.93 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 21.03 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 20.45 |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 20.45 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 19.73 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 20.3  |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 20.04 |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.73 |



|       |       |       |     |    |     |    |     |       |
|-------|-------|-------|-----|----|-----|----|-----|-------|
| 41292 | 41490 | QPSK  | 0   | 0  | 1   | 99 | 1   | 22.64 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 23.28 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 22.41 |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 21.24 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 14.53 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 18.85 |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 23.4  |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.58 |
|       |       | 16QAM | 0   | 0  | 1   | 99 | 1   | 21.76 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 22.37 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 21.49 |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 20.33 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 14.66 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 18.95 |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 22.48 |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.68 |
|       |       | 64QAM | 0   | 0  | 1   | 99 | 1   | 20.38 |
|       |       |       | 1   | 0  | 0   | 0  | 1   | 20.99 |
|       |       |       | 100 | 0  | 0   | 0  | 100 | 20.5  |
|       |       |       | 100 | 0  | 100 | 0  | 200 | 20.32 |
|       |       |       | 1   | 0  | 1   | 99 | 2   | 14.34 |
|       |       |       | 1   | 0  | 1   | 0  | 2   | 18.63 |
|       |       |       | 1   | 99 | 1   | 0  | 2   | 20.18 |
|       |       |       | 100 | 0  | 1   | 99 | 101 | 19.55 |



| CA_41C                               |             |            |         |           |         |           |               |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| Combination 20MHz+15MHz (100RB+75RB) |             |            |         |           |         |           |               |                      |
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                | 39921       | QPSK       | 100     | 0         | 75      | 0         | 175           | 21.47                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.82                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.52                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | 20.55                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.88                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.63                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | 20.58                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.58                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.31                |
| 40546                                | 40717       | QPSK       | 100     | 0         | 75      | 0         | 175           | 21.45                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.81                |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.5                 |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | 20.53                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.86                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.6                 |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | 20.53                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.55                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.36                |
| 41341                                | 41512       | QPSK       | 100     | 0         | 75      | 0         | 175           | 21.24                |
|                                      |             | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.6                 |
|                                      |             | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.29                |
|                                      |             | 16QAM      | 100     | 0         | 75      | 0         | 175           | 20.32                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.65                |
|                                      |             | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.39                |
|                                      |             | 64QAM      | 100     | 0         | 75      | 0         | 175           | 20.32                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.34                |
|                                      |             | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.15                |



| Combination 15MHz+20MHz (75RB+100RB) |             |            |         |           |         |           |               |                      |
|--------------------------------------|-------------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC Channel                          | SCC Channel | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
|                                      |             |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39728                                | 39899       | QPSK       | 75      | 0         | 100     | 0         | 175           | 21.44                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.79                |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.5                 |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | 20.49                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.88                |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.62                |
|                                      |             | 64QAM      | 75      | 0         | 100     | 0         | 175           | 20.52                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.5                 |
|                                      |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.33                |
| 40523                                | 40694       | QPSK       | 75      | 0         | 100     | 0         | 175           | 21.39                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.75                |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.44                |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | 20.47                |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.8                 |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.54                |
|                                      |             | 64QAM      | 75      | 0         | 100     | 0         | 175           | 20.47                |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.49                |
|                                      |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.3                 |
| 41319                                | 41490       | QPSK       | 75      | 0         | 100     | 0         | 175           | 21.22                |
|                                      |             | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.58                |
|                                      |             | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.27                |
|                                      |             | 16QAM      | 75      | 0         | 100     | 0         | 175           | 20.3                 |
|                                      |             | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.63                |
|                                      |             | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.37                |
|                                      |             | 64QAM      | 75      | 0         | 100     | 0         | 175           | 20.3                 |
|                                      |             | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.32                |
|                                      |             | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.13                |



| Combination 20MHz+10MHz (100RB+50RB) |         |            |         |           |         |           |               |                      |
|--------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                                | 39894   | QPSK       | 100     | 0         | 50      | 0         | 150           | 20.05                |
|                                      |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 20.25                |
|                                      |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.55                |
|                                      |         | 16QAM      | 100     | 0         | 50      | 0         | 150           | 20.09                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 19.86                |
|                                      |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.66                |
|                                      |         | 64QAM      | 100     | 0         | 50      | 0         | 150           | 19.77                |
|                                      |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 20.8                 |
|                                      |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.33                |
| 40571                                | 40715   | QPSK       | 100     | 0         | 50      | 0         | 150           | 19.67                |
|                                      |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 19.87                |
|                                      |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.17                |
|                                      |         | 16QAM      | 100     | 0         | 50      | 0         | 150           | 19.71                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 19.48                |
|                                      |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.28                |
|                                      |         | 64QAM      | 100     | 0         | 50      | 0         | 150           | 19.39                |
|                                      |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 20.42                |
|                                      |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 19.95                |
| 41391                                | 41535   | QPSK       | 100     | 0         | 50      | 0         | 150           | 20                   |
|                                      |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 20.24                |
|                                      |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.53                |
|                                      |         | 16QAM      | 100     | 0         | 50      | 0         | 150           | 20.01                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 19.78                |
|                                      |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.61                |
|                                      |         | 64QAM      | 100     | 0         | 50      | 0         | 150           | 19.7                 |
|                                      |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 20.79                |
|                                      |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.31                |



| Combination 10MHz+20MHz (50RB+100RB) |         |            |         |           |         |           |               |                      |
|--------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                  | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                              | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39705                                | 39849   | QPSK       | 50      | 0         | 100     | 0         | 150           | 21.35                |
|                                      |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.79                |
|                                      |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.32                |
|                                      |         | 16QAM      | 50      | 0         | 100     | 0         | 150           | 20.45                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.86                |
|                                      |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.4                 |
|                                      |         | 64QAM      | 50      | 0         | 100     | 0         | 150           | 20.43                |
|                                      |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.56                |
|                                      |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.09                |
| 40526                                | 40670   | QPSK       | 50      | 0         | 100     | 0         | 150           | 21.41                |
|                                      |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.85                |
|                                      |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.4                 |
|                                      |         | 16QAM      | 50      | 0         | 100     | 0         | 150           | 20.51                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.92                |
|                                      |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.46                |
|                                      |         | 64QAM      | 50      | 0         | 100     | 0         | 150           | 20.47                |
|                                      |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.62                |
|                                      |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.15                |
| 41346                                | 41490   | QPSK       | 50      | 0         | 100     | 0         | 150           | 21.26                |
|                                      |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.7                 |
|                                      |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.25                |
|                                      |         | 16QAM      | 50      | 0         | 100     | 0         | 150           | 20.36                |
|                                      |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.77                |
|                                      |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.31                |
|                                      |         | 64QAM      | 50      | 0         | 100     | 0         | 150           | 20.32                |
|                                      |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.47                |
|                                      |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.00                |





| Combination 20MHz+5MHz (100RB+25RB) |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39750                               | 39867   | QPSK       | 100     | 0         | 25      | 0         | 125           | 21.01                |
|                                     |         | QPSK       | 1       | 0         | 1       | 24        | 2             | 14.91                |
|                                     |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.51                |
|                                     |         | 16QAM      | 100     | 0         | 25      | 0         | 125           | 19.54                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 24        | 2             | 14.98                |
|                                     |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.59                |
|                                     |         | 64QAM      | 100     | 0         | 25      | 0         | 125           | 20.49                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 24        | 2             | 14.67                |
|                                     |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.32                |
| 40595                               | 40712   | QPSK       | 100     | 0         | 25      | 0         | 125           | 19.78                |
|                                     |         | QPSK       | 1       | 0         | 1       | 24        | 2             | 15.02                |
|                                     |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.45                |
|                                     |         | 16QAM      | 100     | 0         | 25      | 0         | 125           | 20.09                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 24        | 2             | 15.08                |
|                                     |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.53                |
|                                     |         | 64QAM      | 100     | 0         | 25      | 0         | 125           | 20.98                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 24        | 2             | 14.78                |
|                                     |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 20.24                |
| 41440                               | 41557   | QPSK       | 100     | 0         | 25      | 0         | 125           | 20.11                |
|                                     |         | QPSK       | 1       | 0         | 1       | 24        | 2             | 14.62                |
|                                     |         | QPSK       | 1       | 99        | 1       | 0         | 2             | 23.06                |
|                                     |         | 16QAM      | 100     | 0         | 25      | 0         | 125           | 19.54                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 24        | 2             | 14.75                |
|                                     |         | 16QAM      | 1       | 99        | 1       | 0         | 2             | 22.12                |
|                                     |         | 64QAM      | 100     | 0         | 25      | 0         | 125           | 19.61                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 24        | 2             | 14.41                |
|                                     |         | 64QAM      | 1       | 99        | 1       | 0         | 2             | 19.84                |



| Combination 5MHz+20MHz (25RB+100RB) |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39683                               | 39800   | QPSK       | 25      | 0         | 100     | 0         | 125           | 21.33                |
|                                     |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.86                |
|                                     |         | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.23                |
|                                     |         | 16QAM      | 25      | 0         | 100     | 0         | 125           | 20.42                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.91                |
|                                     |         | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.33                |
|                                     |         | 64QAM      | 25      | 0         | 100     | 0         | 125           | 20.37                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.62                |
|                                     |         | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.02                |
| 40528                               | 40645   | QPSK       | 25      | 0         | 100     | 0         | 125           | 21.41                |
|                                     |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.9                 |
|                                     |         | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.42                |
|                                     |         | 16QAM      | 25      | 0         | 100     | 0         | 125           | 20.46                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.99                |
|                                     |         | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.51                |
|                                     |         | 64QAM      | 25      | 0         | 100     | 0         | 125           | 20.45                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.71                |
|                                     |         | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.21                |
| 41373                               | 41490   | QPSK       | 25      | 0         | 100     | 0         | 125           | 21.28                |
|                                     |         | QPSK       | 1       | 0         | 1       | 99        | 2             | 14.53                |
|                                     |         | QPSK       | 1       | 24        | 1       | 0         | 2             | 23.42                |
|                                     |         | 16QAM      | 25      | 0         | 100     | 0         | 125           | 20.39                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 99        | 2             | 14.62                |
|                                     |         | 16QAM      | 1       | 24        | 1       | 0         | 2             | 22.53                |
|                                     |         | 64QAM      | 25      | 0         | 100     | 0         | 125           | 20.34                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 99        | 2             | 14.31                |
|                                     |         | 64QAM      | 1       | 24        | 1       | 0         | 2             | 20.21                |



| Combination 15MHz+15MHz (75RB+75RB) |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39725                               | 39875   | QPSK       | 75      | 0         | 75      | 0         | 150           | 21.45                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.82                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.51                |
|                                     |         | 16QAM      | 75      | 0         | 75      | 0         | 150           | 20.54                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.89                |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.6                 |
|                                     |         | 64QAM      | 75      | 0         | 75      | 0         | 150           | 20.57                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.6                 |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.29                |
| 40545                               | 40695   | QPSK       | 75      | 0         | 75      | 0         | 150           | 21.41                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.92                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.42                |
|                                     |         | 16QAM      | 75      | 0         | 75      | 0         | 150           | 21.41                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 15.01                |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.51                |
|                                     |         | 64QAM      | 75      | 0         | 75      | 0         | 150           | 20.55                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.69                |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.19                |
| 41365                               | 41515   | QPSK       | 75      | 0         | 75      | 0         | 150           | 21.23                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.55                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.38                |
|                                     |         | 16QAM      | 75      | 0         | 75      | 0         | 150           | 20.3                 |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.66                |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.47                |
|                                     |         | 64QAM      | 75      | 0         | 75      | 0         | 150           | 20.37                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.34                |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.16                |



| Combination 15MHz+10MHz (75RB+50RB) |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39725                               | 39845   | QPSK       | 75      | 0         | 50      | 0         | 125           | 20.16                |
|                                     |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 14.93                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.53                |
|                                     |         | 16QAM      | 75      | 0         | 50      | 0         | 125           | 19.36                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 15.04                |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.61                |
|                                     |         | 64QAM      | 75      | 0         | 50      | 0         | 125           | 21.12                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 14.71                |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.36                |
| 40571                               | 40691   | QPSK       | 75      | 0         | 50      | 0         | 125           | 19.72                |
|                                     |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 14.96                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.47                |
|                                     |         | 16QAM      | 75      | 0         | 50      | 0         | 125           | 19.67                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 15.06                |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.57                |
|                                     |         | 64QAM      | 75      | 0         | 50      | 0         | 125           | 20.83                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 14.78                |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.25                |
| 41417                               | 41537   | QPSK       | 75      | 0         | 50      | 0         | 125           | 20.03                |
|                                     |         | QPSK       | 1       | 0         | 1       | 49        | 2             | 14.56                |
|                                     |         | QPSK       | 1       | 74        | 1       | 0         | 2             | 23.35                |
|                                     |         | 16QAM      | 75      | 0         | 50      | 0         | 125           | 19.21                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 49        | 2             | 14.6                 |
|                                     |         | 16QAM      | 1       | 74        | 1       | 0         | 2             | 22.41                |
|                                     |         | 64QAM      | 75      | 0         | 50      | 0         | 125           | 19.77                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 49        | 2             | 14.36                |
|                                     |         | 64QAM      | 1       | 74        | 1       | 0         | 2             | 20.16                |



| Combination 10MHz+15MHz (50RB+75RB) |         |            |         |           |         |           |               |                      |
|-------------------------------------|---------|------------|---------|-----------|---------|-----------|---------------|----------------------|
| PCC                                 | SCC     | Modulation | PCC     |           | SCC     |           | Total RB Size | Measured Power (dBm) |
| Channel                             | Channel |            | RB Size | RB offset | RB Size | RB offset |               |                      |
| 39703                               | 39823   | QPSK       | 50      | 0         | 75      | 0         | 125           | 21.38                |
|                                     |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.35                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.84                |
|                                     |         | 16QAM      | 50      | 0         | 75      | 0         | 125           | 20.47                |
|                                     |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.43                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.93                |
|                                     |         | 64QAM      | 50      | 0         | 75      | 0         | 125           | 20.44                |
|                                     |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.13                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.59                |
| 40549                               | 40669   | QPSK       | 50      | 0         | 75      | 0         | 125           | 21.41                |
|                                     |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.39                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.88                |
|                                     |         | 16QAM      | 50      | 0         | 75      | 0         | 125           | 20.51                |
|                                     |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.47                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.98                |
|                                     |         | 64QAM      | 50      | 0         | 75      | 0         | 125           | 20.48                |
|                                     |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.15                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.66                |
| 41395                               | 41515   | QPSK       | 50      | 0         | 75      | 0         | 125           | 21.27                |
|                                     |         | QPSK       | 1       | 49        | 1       | 0         | 2             | 23.42                |
|                                     |         | QPSK       | 1       | 0         | 1       | 74        | 2             | 14.52                |
|                                     |         | 16QAM      | 50      | 0         | 75      | 0         | 125           | 20.41                |
|                                     |         | 16QAM      | 1       | 49        | 1       | 0         | 2             | 22.52                |
|                                     |         | 16QAM      | 1       | 0         | 1       | 74        | 2             | 14.65                |
|                                     |         | 64QAM      | 50      | 0         | 75      | 0         | 125           | 20.37                |
|                                     |         | 64QAM      | 1       | 49        | 1       | 0         | 2             | 20.21                |
|                                     |         | 64QAM      | 1       | 0         | 1       | 74        | 2             | 14.32                |

**ERP/EIRP**

| LTE Band 7 (GT - LC = 1.00 dB) QPSK |        |        |        |
|-------------------------------------|--------|--------|--------|
| Bandwidth                           | 5M     |        |        |
| Channel                             | 20775  | 21100  | 21425  |
|                                     | (Low)  | (Mid)  | (High) |
| Frequency                           | 2502.5 | 2535   | 2567.5 |
| (MHz)                               |        |        |        |
| Conducted Power (dBm)               | 22.55  | 22.58  | 22.77  |
| Conducted Power (Watts)             | 0.1799 | 0.1811 | 0.1892 |
| EIRP(dBm)                           | 23.55  | 23.58  | 23.77  |
| EIRP(Watts)                         | 0.2265 | 0.2280 | 0.2382 |

| LTE Band 7 (GT - LC = 1.00 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)               | 22.53  | 22.67  | 22.77  | 22.63  | 22.59  | 22.79  | 22.60  | 22.60  | 22.82  |
| Conducted Power (Watts)             | 0.1791 | 0.1849 | 0.1892 | 0.1832 | 0.1816 | 0.1901 | 0.1820 | 0.1820 | 0.1914 |
| EIRP(dBm)                           | 23.53  | 23.67  | 23.77  | 23.63  | 23.59  | 23.79  | 23.60  | 23.60  | 23.82  |
| EIRP(Watts)                         | 0.2254 | 0.2328 | 0.2382 | 0.2307 | 0.2286 | 0.2393 | 0.2291 | 0.2291 | 0.2410 |



| LTE Band 7 (GT - LC = 1.00 dB) 16QAM |        |        |        |
|--------------------------------------|--------|--------|--------|
| Bandwidth                            | 5M     |        |        |
| Channel                              | 20775  | 21100  | 21425  |
|                                      | (Low)  | (Mid)  | (High) |
| Frequency                            | 2502.5 | 2535   | 2567.5 |
| (MHz)                                |        |        |        |
| Conducted Power (dBm)                | 21.78  | 21.99  | 22.28  |
| Conducted Power (Watts)              | 0.1507 | 0.1581 | 0.1690 |
| EIRP(dBm)                            | 22.78  | 22.99  | 23.28  |
| EIRP(Watts)                          | 0.1897 | 0.1991 | 0.2128 |

| LTE Band 7 (GT - LC = 1.00 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)                | 21.93  | 21.91  | 22.22  | 21.91  | 21.90  | 22.22  | 21.98  | 21.89  | 22.21  |
| Conducted Power (Watts)              | 0.1560 | 0.1552 | 0.1667 | 0.1552 | 0.1549 | 0.1667 | 0.1578 | 0.1545 | 0.1663 |
| EIRP(dBm)                            | 22.93  | 22.91  | 23.22  | 22.91  | 22.90  | 23.22  | 22.98  | 22.89  | 23.21  |
| EIRP(Watts)                          | 0.1963 | 0.1954 | 0.2099 | 0.1954 | 0.1950 | 0.2099 | 0.1986 | 0.1945 | 0.2094 |



| LTE Band 7 (GT - LC = 1.00 dBi ) 64QAM |        |        |        |
|----------------------------------------|--------|--------|--------|
| Bandwidth                              | 5M     |        |        |
| Channel                                | 20775  | 21100  | 21425  |
|                                        | (Low)  | (Mid)  | (High) |
| Frequency                              | 2502.5 | 2535   | 2567.5 |
| (MHz)                                  |        |        |        |
| Conducted Power (dBm)                  | 21.32  | 21.45  | 21.72  |
| Conducted Power (Watts)                | 0.1355 | 0.1396 | 0.1486 |
| EIRP(dBm)                              | 22.32  | 22.45  | 22.72  |
| EIRP(Watts)                            | 0.1706 | 0.1758 | 0.1871 |

| LTE Band 7 (GT - LC = 1.00 dBi) 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)                 | 21.38  | 21.37  | 21.56  | 21.40  | 21.36  | 21.56  | 21.39  | 21.40  | 21.54  |
| Conducted Power (Watts)               | 0.1374 | 0.1371 | 0.1432 | 0.1380 | 0.1368 | 0.1432 | 0.1377 | 0.1380 | 0.1426 |
| EIRP(dBm)                             | 22.38  | 22.37  | 22.56  | 22.40  | 22.36  | 22.56  | 22.39  | 22.40  | 22.54  |
| EIRP(Watts)                           | 0.1730 | 0.1726 | 0.1803 | 0.1738 | 0.1722 | 0.1803 | 0.1734 | 0.1738 | 0.1795 |



| 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)                 | 22.66  | 22.72  | 22.73  | 22.65  | 22.73  | 22.73  | 22.73  | 22.72  | 22.75  |
| Conducted Power (Watts)               | 0.1845 | 0.1871 | 0.1875 | 0.1841 | 0.1875 | 0.1875 | 0.1875 | 0.1871 | 0.1884 |
| ERP(dBm)                              | 17.51  | 17.57  | 17.58  | 17.50  | 17.58  | 17.58  | 17.58  | 17.57  | 17.60  |
| ERP(Watts)                            | 0.0564 | 0.0571 | 0.0573 | 0.0562 | 0.0573 | 0.0573 | 0.0573 | 0.0571 | 0.0575 |

| 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)                 | 22.72  | 22.68  | 22.86  |
| Conducted Power (Watts)               | 0.1871 | 0.1854 | 0.1932 |
| ERP(dBm)                              | 17.57  | 17.53  | 17.71  |
| ERP(Watts)                            | 0.0571 | 0.0566 | 0.0590 |



| 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)                  | 21.98  | 22.04  | 21.94  | 22.08  | 22.15  | 22.02  | 22.07  | 22.08  | 22.12  |
| Conducted Power (Watts)                | 0.1578 | 0.1600 | 0.1563 | 0.1614 | 0.1641 | 0.1592 | 0.1611 | 0.1614 | 0.1629 |
| ERP(dBm)                               | 16.83  | 16.89  | 16.79  | 16.93  | 17.00  | 16.87  | 16.92  | 16.93  | 16.97  |
| ERP(Watts)                             | 0.0482 | 0.0489 | 0.0478 | 0.0493 | 0.0501 | 0.0486 | 0.0492 | 0.0493 | 0.0498 |

| 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)                  | 22.71  | 22.04  | 22.04  |
| Conducted Power (Watts)                | 0.1866 | 0.1600 | 0.1600 |
| ERP(dBm)                               | 17.56  | 16.89  | 16.89  |
| ERP(Watts)                             | 0.0570 | 0.0489 | 0.0489 |



| 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                              | 699.7  | 707.5  | 715.3  | 700.5  | 707.5  | 714.5  | 701.5  | 707.5  | 713.5  |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.49  | 21.55  | 21.42  | 21.48  | 21.58  | 21.55  | 21.57  | 21.58  | 21.50  |
| Conducted Power (Watts)                | 0.1409 | 0.1429 | 0.1387 | 0.1406 | 0.1439 | 0.1429 | 0.1435 | 0.1439 | 0.1413 |
| ERP(dBm)                               | 16.34  | 16.40  | 16.27  | 16.33  | 16.43  | 16.40  | 16.42  | 16.43  | 16.35  |
| ERP(Watts)                             | 0.0431 | 0.0437 | 0.0424 | 0.0430 | 0.0440 | 0.0437 | 0.0439 | 0.0440 | 0.0432 |

| LTE Band 12 (GT - LC = -3.00 dB) 64QAM |        |        |        |
|----------------------------------------|--------|--------|--------|
| Bandwidth                              | 10M    |        |        |
| Channel                                | 23060  | 23095  | 23130  |
|                                        | (Low)  | (Mid)  | (High) |
| Frequency                              | 704    | 707.5  | 711    |
| (MHz)                                  |        |        |        |
| Conducted Power (dBm)                  | 21.56  | 21.57  | 21.60  |
| Conducted Power (Watts)                | 0.1432 | 0.1435 | 0.1445 |
| ERP(dBm)                               | 16.41  | 16.42  | 16.45  |
| ERP(Watts)                             | 0.0438 | 0.0439 | 0.0442 |



| 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)                 | 22.74  | 22.70  | 22.79  |       | 22.85  | - |
| Conducted Power (Watts)               | 0.1879 | 0.1862 | 0.1901 |       | 0.1928 | - |
| ERP(dBm)                              | 17.59  | 17.55  | 17.64  |       | 17.70  | - |
| ERP(Watts)                            | 0.0574 | 0.0569 | 0.0581 |       | 0.0589 | - |

| 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)                  | 22.02  | 22.05  | 22.19  |       | 22.04  | - |
| Conducted Power (Watts)                | 0.1592 | 0.1603 | 0.1656 |       | 0.1600 | - |
| ERP(dBm)                               | 16.87  | 16.90  | 17.04  |       | 16.89  | - |
| ERP(Watts)                             | 0.0486 | 0.0490 | 0.0506 |       | 0.0489 | - |

| 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)                  | 21.21  | 21.62  | 21.52  |       | 21.57  | - |
| Conducted Power (Watts)                | 0.1321 | 0.1452 | 0.1419 |       | 0.1435 | - |
| ERP(dBm)                               | 16.06  | 16.47  | 16.37  |       | 16.42  | - |
| ERP(Watts)                             | 0.0404 | 0.0444 | 0.0434 |       | 0.0439 | - |



| LTE Band 25 (GT - LC = -1.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 26407  | 26340  | 26683  | 26055  | 26340  | 26675  | 26065  | 26340  | 26665  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 1850.7 | 1880   | 1914.3 | 1851.5 | 1880   | 1913.5 | 1852.5 | 1880   | 1912.5 |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 22.65  | 23.09  | 22.83  | 22.66  | 23.09  | 22.81  | 22.71  | 23.16  | 22.85  |
| Conducted Power (Watts)               | 0.1841 | 0.2037 | 0.1919 | 0.1845 | 0.2037 | 0.1910 | 0.1866 | 0.2070 | 0.1928 |
| EIRP(dBm)                             | 21.65  | 22.09  | 21.83  | 21.66  | 22.09  | 21.81  | 21.71  | 22.16  | 21.85  |
| EIRP(Watts)                           | 0.1462 | 0.1618 | 0.1524 | 0.1466 | 0.1618 | 0.1517 | 0.1483 | 0.1644 | 0.1531 |

| LTE Band 25 (GT - LC = -1.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                               | 26090  | 26340  | 26640  | 26115  | 26340  | 26615  | 26140  | 26340  | 26590  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 1855   | 1880   | 1910   | 1857.5 | 1880   | 1907.5 | 1860   | 1880   | 1905   |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 23.06  | 23.40  | 22.93  | 22.90  | 23.24  | 23.03  | 23.01  | 23.41  | 23.11  |
| Conducted Power (Watts)               | 0.2023 | 0.2188 | 0.1963 | 0.1950 | 0.2109 | 0.2009 | 0.2000 | 0.2193 | 0.2046 |
| EIRP(dBm)                             | 22.06  | 22.40  | 21.93  | 21.90  | 22.24  | 22.03  | 22.01  | 22.41  | 22.11  |
| EIRP(Watts)                           | 0.1607 | 0.1738 | 0.1560 | 0.1549 | 0.1675 | 0.1596 | 0.1589 | 0.1742 | 0.1626 |



| LTE Band 25 (GT - LC = -1.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                                | 26407  | 26340  | 26683  | 26055  | 26340  | 26675  | 26065  | 26340  | 26665  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 1850.7 | 1880   | 1914.3 | 1851.5 | 1880   | 1913.5 | 1852.5 | 1880   | 1912.5 |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.92  | 22.45  | 22.09  | 21.93  | 22.50  | 22.12  | 21.96  | 22.59  | 22.15  |
| Conducted Power (Watts)                | 0.1556 | 0.1758 | 0.1618 | 0.1560 | 0.1778 | 0.1629 | 0.1570 | 0.1816 | 0.1641 |
| EIRP(dBm)                              | 20.92  | 21.45  | 21.09  | 20.93  | 21.50  | 21.12  | 20.96  | 21.59  | 21.15  |
| EIRP(Watts)                            | 0.1236 | 0.1396 | 0.1285 | 0.1239 | 0.1413 | 0.1294 | 0.1247 | 0.1442 | 0.1303 |

| LTE Band 25 (GT - LC = -1.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                                | 26090  | 26340  | 26640  | 26115  | 26340  | 26615  | 26140  | 26340  | 26590  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 1855   | 1880   | 1910   | 1857.5 | 1880   | 1907.5 | 1860   | 1880   | 1905   |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 22.24  | 22.75  | 22.30  | 22.13  | 22.64  | 22.40  | 22.24  | 22.79  | 22.42  |
| Conducted Power (Watts)                | 0.1675 | 0.1884 | 0.1698 | 0.1633 | 0.1837 | 0.1738 | 0.1675 | 0.1901 | 0.1746 |
| EIRP(dBm)                              | 21.24  | 21.75  | 21.30  | 21.13  | 21.64  | 21.40  | 21.24  | 21.79  | 21.42  |
| EIRP(Watts)                            | 0.1330 | 0.1496 | 0.1349 | 0.1297 | 0.1459 | 0.1380 | 0.1330 | 0.1510 | 0.1387 |



| LTE Band 25 (GT - LC = -1.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                                | 26407  | 26340  | 26683  | 26055  | 26340  | 26675  | 26065  | 26340  | 26665  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 1850.7 | 1880   | 1914.3 | 1851.5 | 1880   | 1913.5 | 1852.5 | 1880   | 1912.5 |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.45  | 21.49  | 21.68  | 21.43  | 21.56  | 21.59  | 21.02  | 21.60  | 21.23  |
| Conducted Power (Watts)                | 0.1396 | 0.1409 | 0.1472 | 0.1390 | 0.1432 | 0.1442 | 0.1265 | 0.1445 | 0.1327 |
| EIRP(dBm)                              | 20.45  | 20.49  | 20.68  | 20.43  | 20.56  | 20.59  | 20.02  | 20.60  | 20.23  |
| EIRP(Watts)                            | 0.1109 | 0.1119 | 0.1169 | 0.1104 | 0.1138 | 0.1146 | 0.1005 | 0.1148 | 0.1054 |

| LTE Band 25 (GT - LC = -1.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                                | 26090  | 26340  | 26640  | 26115  | 26340  | 26615  | 26140  | 26340  | 26590  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 1855   | 1880   | 1910   | 1857.5 | 1880   | 1907.5 | 1860   | 1880   | 1905   |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.33  | 21.80  | 21.40  | 21.10  | 21.62  | 21.38  | 21.26  | 21.78  | 21.49  |
| Conducted Power (Watts)                | 0.1358 | 0.1514 | 0.1380 | 0.1288 | 0.1452 | 0.1374 | 0.1337 | 0.1507 | 0.1409 |
| EIRP(dBm)                              | 20.33  | 20.80  | 20.40  | 20.10  | 20.62  | 20.38  | 20.26  | 20.78  | 20.49  |
| EIRP(Watts)                            | 0.1079 | 0.1202 | 0.1096 | 0.1023 | 0.1153 | 0.1091 | 0.1062 | 0.1197 | 0.1119 |



| LTE Band 26 (GT - LC = -3.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 26797  | 26915  | 27033  | 26805  | 26915  | 27025  | 26815  | 26915  | 27015  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 824.7  | 836.5  | 848.3  | 825.5  | 836.5  | 847.5  | 826.5  | 836.5  | 846.5  |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 22.02  | 22.09  | 22.20  | 22.69  | 22.16  | 22.05  | 22.74  | 22.82  | 22.77  |
| Conducted Power (Watts)               | 0.1592 | 0.1618 | 0.1660 | 0.1858 | 0.1644 | 0.1603 | 0.1879 | 0.1914 | 0.1892 |
| ERP(dBm)                              | 16.87  | 16.94  | 17.05  | 17.54  | 17.01  | 16.90  | 17.59  | 17.67  | 17.62  |
| ERP(Watts)                            | 0.0486 | 0.0494 | 0.0507 | 0.0568 | 0.0502 | 0.0490 | 0.0574 | 0.0585 | 0.0578 |

| LTE Band 26 (GT - LC = -3.00 dB) QPSK |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        | 15M    |        |        | 15M    |
| Channel                               | 26840  | 26915  | 26990  | 26865  | 26915  | 26965  | 26765  |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  |
| Frequency                             | 829    | 836.5  | 844    | 831.5  | 836.5  | 841.5  | 821.5  |
| (MHz)                                 |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 22.70  | 22.79  | 22.85  | 23.05  | 23.02  | 22.81  | 22.82  |
| Conducted Power (Watts)               | 0.1862 | 0.1901 | 0.1928 | 0.2018 | 0.2004 | 0.1910 | 0.1914 |
| ERP(dBm)                              | 17.55  | 17.64  | 17.70  | 17.90  | 17.87  | 17.66  | 17.67  |
| ERP(Watts)                            | 0.0569 | 0.0581 | 0.0589 | 0.0617 | 0.0612 | 0.0583 | 0.0585 |





| LTE Band 26 (GT - LC = -3.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                                | 26797  | 26915  | 27033  | 26805  | 26915  | 27025  | 26815  | 26915  | 27015  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 824.7  | 836.5  | 848.3  | 825.5  | 836.5  | 847.5  | 826.5  | 836.5  | 846.5  |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.43  | 21.45  | 21.46  | 22.01  | 21.45  | 21.36  | 22.03  | 22.20  | 22.12  |
| Conducted Power (Watts)                | 0.1390 | 0.1396 | 0.1400 | 0.1589 | 0.1396 | 0.1368 | 0.1596 | 0.1660 | 0.1629 |
| ERP(dBm)                               | 16.28  | 16.30  | 16.31  | 16.86  | 16.30  | 16.21  | 16.88  | 17.05  | 16.97  |
| ERP(Watts)                             | 0.0425 | 0.0427 | 0.0428 | 0.0485 | 0.0427 | 0.0418 | 0.0488 | 0.0507 | 0.0498 |

| LTE Band 26 (GT - LC = -3.00 dB) 16QAM |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 10M    |        |        | 15M    |        |        | 15M    |
| Channel                                | 26840  | 26915  | 26990  | 26865  | 26915  | 26965  | 26765  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  |
| Frequency                              | 829    | 836.5  | 844    | 831.5  | 836.5  | 841.5  | 821.5  |
| (MHz)                                  |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 22.03  | 22.12  | 22.25  | 22.22  | 22.19  | 22.27  | 22.20  |
| Conducted Power (Watts)                | 0.1596 | 0.1629 | 0.1679 | 0.1667 | 0.1656 | 0.1687 | 0.1660 |
| ERP(dBm)                               | 16.88  | 16.97  | 17.10  | 17.07  | 17.04  | 17.12  | 17.05  |
| ERP(Watts)                             | 0.0488 | 0.0498 | 0.0513 | 0.0509 | 0.0506 | 0.0515 | 0.0507 |



| LTE Band 26 (GT - LC = -3.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                                | 26797  | 26915  | 27033  | 26805  | 26915  | 27025  | 26815  | 26915  | 27015  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                              | 824.7  | 836.5  | 848.3  | 825.5  | 836.5  | 847.5  | 826.5  | 836.5  | 846.5  |
| (MHz)                                  |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.26  | 21.36  | 21.32  | 21.30  | 21.37  | 21.28  | 21.62  | 21.68  | 21.72  |
| Conducted Power (Watts)                | 0.1337 | 0.1368 | 0.1355 | 0.1349 | 0.1371 | 0.1343 | 0.1452 | 0.1472 | 0.1486 |
| ERP(dBm)                               | 16.11  | 16.21  | 16.17  | 16.15  | 16.22  | 16.13  | 16.47  | 16.53  | 16.57  |
| ERP(Watts)                             | 0.0408 | 0.0418 | 0.0414 | 0.0412 | 0.0419 | 0.0410 | 0.0444 | 0.0450 | 0.0454 |

| LTE Band 26 (GT - LC = -3.00 dB) 64QAM |        |        |        |        |        |        |        |
|----------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                              | 10M    |        |        | 15M    |        |        | 15M    |
| Channel                                | 26840  | 26915  | 26990  | 26865  | 26915  | 26965  | 26765  |
|                                        | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  |
| Frequency                              | 829    | 836.5  | 844    | 831.5  | 836.5  | 841.5  | 821.5  |
| (MHz)                                  |        |        |        |        |        |        |        |
| Conducted Power (dBm)                  | 21.51  | 21.62  | 21.74  | 21.66  | 21.63  | 21.75  | 21.72  |
| Conducted Power (Watts)                | 0.1416 | 0.1452 | 0.1493 | 0.1466 | 0.1455 | 0.1496 | 0.1486 |
| ERP(dBm)                               | 16.36  | 16.47  | 16.59  | 16.51  | 16.48  | 16.60  | 16.57  |
| ERP(Watts)                             | 0.0433 | 0.0444 | 0.0456 | 0.0448 | 0.0445 | 0.0457 | 0.0454 |

| LTE Band 41 ( $G_T - L_C = 1.00$ 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)                     | 26.34  | 26.46  | 26.15  | 26.20  | 26.32  | 26.62  | 26.36  | 26.45  | 26.09  |
| Conducted Power (Watts)                   | 0.4305 | 0.4426 | 0.4121 | 0.4169 | 0.4285 | 0.4592 | 0.4325 | 0.4416 | 0.4064 |
| EIRP(dBm)                                 | 27.34  | 27.46  | 27.15  | 27.20  | 27.32  | 27.62  | 27.36  | 27.45  | 27.09  |
| EIRP(Watts)                               | 0.5420 | 0.5572 | 0.5188 | 0.5248 | 0.5395 | 0.5781 | 0.5445 | 0.5559 | 0.5117 |

| LTE Band 41 ( $G_T - L_C = 1.00$ dB) QPSK |        |        |        |
|-------------------------------------------|--------|--------|--------|
| Bandwidth                                 | 20M    |        |        |
| Channel                                   | 39750  | 40620  | 41490  |
|                                           | (Low)  | (Mid)  | (High) |
| Frequency                                 | 2506   | 2593   | 2680   |
| (MHz)                                     |        |        |        |
| Conducted Power (dBm)                     | 26.27  | 26.52  | 26.52  |
| Conducted Power (Watts)                   | 0.4236 | 0.4487 | 0.4487 |
| EIRP(dBm)                                 | 27.27  | 27.52  | 27.52  |
| EIRP(Watts)                               | 0.5333 | 0.5649 | 0.5649 |

| LTE Band 41 ( $G_T - L_C = -1.00$ 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)                       | 25.52  | 25.67  | 25.19  | 25.54  | 25.65  | 25.83  | 25.63  | 25.81  | 25.23  |
| Conducted Power (Watts)                     | 0.3565 | 0.3690 | 0.3304 | 0.3581 | 0.3673 | 0.3828 | 0.3656 | 0.3811 | 0.3334 |
| EIRP(dBm)                                   | 26.52  | 26.67  | 26.19  | 26.54  | 26.65  | 26.83  | 26.63  | 26.81  | 26.23  |
| EIRP(Watts)                                 | 0.4487 | 0.4645 | 0.4159 | 0.4508 | 0.4624 | 0.4819 | 0.4603 | 0.4797 | 0.4198 |

| LTE Band 41 ( $G_T - L_C = 1.00$ dB) 16QAM |        |        |        |
|--------------------------------------------|--------|--------|--------|
| Bandwidth                                  | 20M    |        |        |
| Channel                                    | 39750  | 40620  | 41490  |
|                                            | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2506   | 2593   | 2680   |
| (MHz)                                      |        |        |        |
| Conducted Power (dBm)                      | 25.87  | 25.79  | 25.74  |
| Conducted Power (Watts)                    | 0.3864 | 0.3793 | 0.3750 |
| EIRP(dBm)                                  | 26.87  | 26.79  | 26.74  |
| EIRP(Watts)                                | 0.4864 | 0.4775 | 0.4721 |



| LTE Band 41 ( $G_T - L_C = 1.00$ 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)                      | 25.27  | 25.40  | 25.00  | 25.28  | 25.36  | 25.50  | 25.38  | 25.50  | 25.05  |
| Conducted Power (Watts)                    | 0.3365 | 0.3467 | 0.3162 | 0.3373 | 0.3436 | 0.3548 | 0.3451 | 0.3548 | 0.3199 |
| EIRP(dBm)                                  | 26.27  | 26.40  | 26.00  | 26.28  | 26.36  | 26.50  | 26.38  | 26.50  | 26.05  |
| EIRP(Watts)                                | 0.4236 | 0.4365 | 0.3981 | 0.4246 | 0.4325 | 0.4467 | 0.4345 | 0.4467 | 0.4027 |

| LTE Band 41 ( $G_T - L_C = 1.00$ dB) 64QAM |        |        |        |
|--------------------------------------------|--------|--------|--------|
| Bandwidth                                  | 20M    |        |        |
| Channel                                    | 39750  | 40620  | 41490  |
|                                            | (Low)  | (Mid)  | (High) |
| Frequency                                  | 2506   | 2593   | 2680   |
| (MHz)                                      |        |        |        |
| Conducted Power (dBm)                      | 25.33  | 25.27  | 25.47  |
| Conducted Power (Watts)                    | 0.3412 | 0.3365 | 0.3524 |
| EIRP(dBm)                                  | 26.33  | 26.27  | 26.47  |
| EIRP(Watts)                                | 0.4295 | 0.4236 | 0.4436 |

| LTE Band 66 (GT - LC = 1.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                              | 131979 | 132322 | 132665 | 131987 | 132322 | 132657 | 131997 | 132322 | 132647 |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                            | 1710.7 | 1745   | 1779.3 | 1711.5 | 1745   | 1778.5 | 1712.5 | 1745   | 1777.5 |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 22.72  | 22.58  | 22.83  | 22.80  | 22.67  | 22.91  | 22.74  | 22.62  | 22.87  |
| Conducted Power (Watts)              | 0.1871 | 0.1811 | 0.1919 | 0.1905 | 0.1849 | 0.1954 | 0.1879 | 0.1828 | 0.1936 |
| EIRP(dBm)                            | 23.72  | 23.58  | 23.83  | 23.80  | 23.67  | 23.91  | 23.74  | 23.62  | 23.87  |
| EIRP(Watts)                          | 0.2355 | 0.2280 | 0.2415 | 0.2399 | 0.2328 | 0.2460 | 0.2366 | 0.2301 | 0.2438 |

| LTE Band 66 (GT - LC = 1.00 dB) QPSK |        |        |        |        |        |        |        |        |        |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                            | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                              | 132022 | 132322 | 132622 | 132047 | 132322 | 132597 | 132072 | 132322 | 132572 |
|                                      | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (Mid)  |
| Frequency                            | 1715   | 1745   | 1775   | 1717.5 | 1745   | 1772.5 | 1720   | 1745   | 1770   |
| (MHz)                                |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                | 22.75  | 22.65  | 22.99  | 22.95  | 22.85  | 23.01  | 22.38  | 22.79  | 23.02  |
| Conducted Power (Watts)              | 0.1884 | 0.1841 | 0.1991 | 0.1972 | 0.1928 | 0.2000 | 0.1730 | 0.1901 | 0.2004 |
| EIRP(dBm)                            | 23.75  | 23.65  | 23.99  | 23.95  | 23.85  | 24.01  | 23.38  | 23.79  | 24.02  |
| EIRP(Watts)                          | 0.2371 | 0.2317 | 0.2506 | 0.2483 | 0.2427 | 0.2518 | 0.2178 | 0.2393 | 0.2523 |



| LTE Band 66 (GT - LC = 1.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 131979 | 132322 | 132665 | 131987 | 132322 | 132657 | 131997 | 132322 | 132647 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 1710.7 | 1745   | 1779.3 | 1711.5 | 1745   | 1778.5 | 1712.5 | 1745   | 1777.5 |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 22.07  | 21.98  | 22.11  | 22.12  | 22.07  | 22.21  | 22.15  | 21.99  | 22.28  |
| Conducted Power (Watts)               | 0.1611 | 0.1578 | 0.1626 | 0.1629 | 0.1611 | 0.1663 | 0.1641 | 0.1581 | 0.1690 |
| EIRP(dBm)                             | 23.07  | 22.98  | 23.11  | 23.12  | 23.07  | 23.21  | 23.15  | 22.99  | 23.28  |
| EIRP(Watts)                           | 0.2028 | 0.1986 | 0.2046 | 0.2051 | 0.2028 | 0.2094 | 0.2065 | 0.1991 | 0.2128 |

| LTE Band 66 (GT - LC = 1.00 dB) 16QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                               | 132022 | 132322 | 132622 | 132047 | 132322 | 132597 | 132072 | 132322 | 132572 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (Mid)  |
| Frequency                             | 1715   | 1745   | 1775   | 1717.5 | 1745   | 1772.5 | 1720   | 1745   | 1770   |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 22.20  | 22.15  | 22.19  | 22.25  | 22.28  | 22.22  | 21.91  | 22.12  | 22.64  |
| Conducted Power (Watts)               | 0.1660 | 0.1641 | 0.1656 | 0.1679 | 0.1690 | 0.1667 | 0.1552 | 0.1629 | 0.1837 |
| EIRP(dBm)                             | 23.20  | 23.15  | 23.19  | 23.25  | 23.28  | 23.22  | 22.91  | 23.12  | 23.64  |
| EIRP(Watts)                           | 0.2089 | 0.2065 | 0.2084 | 0.2113 | 0.2128 | 0.2099 | 0.1954 | 0.2051 | 0.2312 |



| LTE Band 66 (GT - LC = 1.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 1.4M   |        |        | 3M     |        |        | 5M     |        |        |
| Channel                               | 131979 | 132322 | 132665 | 131987 | 132322 | 132657 | 131997 | 132322 | 132647 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Frequency                             | 1710.7 | 1745   | 1779.3 | 1711.5 | 1745   | 1778.5 | 1712.5 | 1745   | 1777.5 |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 21.13  | 21.06  | 21.23  | 21.01  | 21.15  | 21.18  | 21.33  | 21.21  | 21.49  |
| Conducted Power (Watts)               | 0.1297 | 0.1276 | 0.1327 | 0.1262 | 0.1303 | 0.1312 | 0.1358 | 0.1321 | 0.1409 |
| EIRP(dBm)                             | 22.13  | 22.06  | 22.23  | 22.01  | 22.15  | 22.18  | 22.33  | 22.21  | 22.49  |
| EIRP(Watts)                           | 0.1633 | 0.1607 | 0.1671 | 0.1589 | 0.1641 | 0.1652 | 0.1710 | 0.1663 | 0.1774 |

| LTE Band 66 (GT - LC = 1.00 dB) 64QAM |        |        |        |        |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Bandwidth                             | 10M    |        |        | 15M    |        |        | 20M    |        |        |
| Channel                               | 132022 | 132322 | 132622 | 132047 | 132322 | 132597 | 132072 | 132322 | 132572 |
|                                       | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (High) | (Low)  | (Mid)  | (Mid)  |
| Frequency                             | 1715   | 1745   | 1775   | 1717.5 | 1745   | 1772.5 | 1720   | 1745   | 1770   |
| (MHz)                                 |        |        |        |        |        |        |        |        |        |
| Conducted Power (dBm)                 | 21.34  | 21.26  | 21.26  | 21.35  | 21.36  | 21.37  | 21.08  | 21.09  | 21.50  |
| Conducted Power (Watts)               | 0.1361 | 0.1337 | 0.1337 | 0.1365 | 0.1368 | 0.1371 | 0.1282 | 0.1285 | 0.1413 |
| EIRP(dBm)                             | 22.34  | 22.26  | 22.26  | 22.35  | 22.36  | 22.37  | 22.08  | 22.09  | 22.50  |
| EIRP(Watts)                           | 0.1714 | 0.1683 | 0.1683 | 0.1718 | 0.1722 | 0.1726 | 0.1614 | 0.1618 | 0.1778 |





| LTE Band 71 (GT - LC = -4.00 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)                 | 23.20  | 23.29  | 23.31  | 23.23  | 23.28  | 23.30  | 23.18  | 23.31  | 23.28  |
| Conducted Power (Watts)               | 0.2089 | 0.2133 | 0.2143 | 0.2104 | 0.2128 | 0.2138 | 0.2080 | 0.2143 | 0.2128 |
| ERP(dBm)                              | 17.05  | 17.14  | 17.16  | 17.08  | 17.13  | 17.15  | 17.03  | 17.16  | 17.13  |
| ERP(Watts)                            | 0.0507 | 0.0518 | 0.0520 | 0.0511 | 0.0516 | 0.0519 | 0.0505 | 0.0520 | 0.0516 |

| LTE Band 71 (GT - LC = -4.00 dB) QPSK |        |        |        |
|---------------------------------------|--------|--------|--------|
| Bandwidth                             | 20M    |        |        |
| Channel                               | 133222 | 133297 | 133372 |
|                                       | (Low)  | (Mid)  | (High) |
| Frequency                             | 673    | 680.5  | 688    |
| (MHz)                                 |        |        |        |
| Conducted Power (dBm)                 | 23.23  | 23.27  | 23.33  |
| Conducted Power (Watts)               | 0.2104 | 0.2123 | 0.2153 |
| ERP(dBm)                              | 17.08  | 17.12  | 17.18  |
| ERP(Watts)                            | 0.0511 | 0.0515 | 0.0522 |

| LTE Band 71 (GT - LC = -4.00 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)                  | 22.42  | 22.52  | 22.50  | 22.48  | 22.54  | 22.50  | 22.40  | 22.57  | 22.45  |
| Conducted Power (Watts)                | 0.1746 | 0.1786 | 0.1778 | 0.1770 | 0.1795 | 0.1778 | 0.1738 | 0.1807 | 0.1758 |
| ERP(dBm)                               | 16.27  | 16.37  | 16.35  | 16.33  | 16.39  | 16.35  | 16.25  | 16.42  | 16.30  |
| ERP(Watts)                             | 0.0424 | 0.0434 | 0.0432 | 0.0430 | 0.0436 | 0.0432 | 0.0422 | 0.0439 | 0.0427 |

| LTE Band 71 (GT - LC = -4.00 dB) 16QAM |        |        |        |
|----------------------------------------|--------|--------|--------|
| Bandwidth                              | 20M    |        |        |
| Channel                                | 133222 | 133297 | 133372 |
|                                        | (Low)  | (Mid)  | (High) |
| Frequency                              | 673    | 680.5  | 688    |
| (MHz)                                  |        |        |        |
| Conducted Power (dBm)                  | 22.46  | 22.58  | 22.67  |
| Conducted Power (Watts)                | 0.1762 | 0.1811 | 0.1849 |
| ERP(dBm)                               | 16.31  | 16.43  | 16.52  |
| ERP(Watts)                             | 0.0428 | 0.0440 | 0.0449 |

| LTE Band 71 (GT - LC = -4.00 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)                  | 21.35  | 21.47  | 21.52  | 21.41  | 21.43  | 21.46  | 21.48  | 21.47  | 21.34  |
| Conducted Power (Watts)                | 0.1365 | 0.1403 | 0.1419 | 0.1384 | 0.1390 | 0.1400 | 0.1406 | 0.1403 | 0.1361 |
| ERP(dBm)                               | 15.20  | 15.32  | 15.37  | 15.26  | 15.28  | 15.31  | 15.33  | 15.32  | 15.19  |
| ERP(Watts)                             | 0.0331 | 0.0340 | 0.0344 | 0.0336 | 0.0337 | 0.0340 | 0.0341 | 0.0340 | 0.0330 |

| LTE Band 71 (GT - LC = -4.00 dB) 64QAM |        |        |        |
|----------------------------------------|--------|--------|--------|
| Bandwidth                              | 20M    |        |        |
| Channel                                | 133222 | 133297 | 133372 |
|                                        | (Low)  | (Mid)  | (High) |
| Frequency                              | 673    | 680.5  | 688    |
| (MHz)                                  |        |        |        |
| Conducted Power (dBm)                  | 21.44  | 21.54  | 21.47  |
| Conducted Power (Watts)                | 0.1393 | 0.1426 | 0.1403 |
| ERP(dBm)                               | 15.29  | 15.39  | 15.32  |
| ERP(Watts)                             | 0.0338 | 0.0346 | 0.0340 |

## CA EIRP

| LTE Band 5B_CA (GT - LC = -3.00 dB) QPSK |           |        |        |          |        |        |        |        |        |
|------------------------------------------|-----------|--------|--------|----------|--------|--------|--------|--------|--------|
| Bandwidth                                | 10M + 10M |        |        | 5M + 10M |        |        | 10M+5M |        |        |
| Channel PCC                              | 20450     | 20476  | 20501  | 20428    | 20478  | 20528  | 20450  | 20500  | 20550  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Channel SCC                              | 20549     | 20575  | 20600  | 20500    | 20550  | 20600  | 20522  | 20572  | 20622  |
|                                          | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Conducted Power (dBm)                    | 23.60     | 23.56  | 23.48  | 23.40    | 23.46  | 23.38  | 23.47  | 23.37  | 23.41  |
| Conducted Power (Watts)                  | 0.2291    | 0.2270 | 0.2228 | 0.2188   | 0.2218 | 0.2178 | 0.2223 | 0.2173 | 0.2193 |
| ERP(dBm)                                 | 18.45     | 18.41  | 18.33  | 18.25    | 18.31  | 18.23  | 18.32  | 18.22  | 18.26  |
| ERP(Watts)                               | 0.0700    | 0.0693 | 0.0681 | 0.0668   | 0.0678 | 0.0665 | 0.0679 | 0.0664 | 0.0670 |

| LTE Band 5B_CA (GT - LC = -3.00 dB) 16QAM |           |        |        |          |        |        |        |        |        |
|-------------------------------------------|-----------|--------|--------|----------|--------|--------|--------|--------|--------|
| Bandwidth                                 | 10M + 10M |        |        | 5M + 10M |        |        | 10M+5M |        |        |
| Channel PCC                               | 20450     | 20476  | 20501  | 20450    | 20476  | 20501  | 20450  | 20476  | 20501  |
|                                           | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Channel SCC                               | 20549     | 20575  | 20600  | 20549    | 20575  | 20600  | 20549  | 20575  | 20600  |
|                                           | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Conducted Power (dBm)                     | 23.21     | 23.02  | 23.05  | 22.81    | 22.91  | 22.84  | 22.81  | 22.96  | 23.02  |
| Conducted Power (Watts)                   | 0.2094    | 0.2004 | 0.2018 | 0.1910   | 0.1954 | 0.1923 | 0.1910 | 0.1977 | 0.2004 |
| ERP(dBm)                                  | 18.06     | 17.87  | 17.90  | 17.66    | 17.76  | 17.69  | 17.66  | 17.81  | 17.87  |
| ERP(Watts)                                | 0.0640    | 0.0612 | 0.0617 | 0.0583   | 0.0597 | 0.0587 | 0.0583 | 0.0604 | 0.0612 |



| LTE Band 5B_CA (GT - LC = -3.00 dB) 64QAM |           |        |        |          |        |        |        |        |        |
|-------------------------------------------|-----------|--------|--------|----------|--------|--------|--------|--------|--------|
| Bandwidth                                 | 10M + 10M |        |        | 5M + 10M |        |        | 10M+5M |        |        |
| Channel PCC                               | 20450     | 20476  | 20501  | 20450    | 20476  | 20501  | 20450  | 20476  | 20501  |
|                                           | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Channel SCC                               | 20549     | 20575  | 20600  | 20549    | 20575  | 20600  | 20549  | 20575  | 20600  |
|                                           | (Low)     | (Mid)  | (High) | (Low)    | (Mid)  | (High) | (Low)  | (Mid)  | (High) |
| Conducted Power (dBm)                     | 21.94     | 21.87  | 21.76  | 20.59    | 20.72  | 20.72  | 20.78  | 20.71  | 20.91  |
| Conducted Power (Watts)                   | 0.1563    | 0.1538 | 0.1500 | 0.1146   | 0.1180 | 0.1180 | 0.1197 | 0.1178 | 0.1233 |
| ERP(dBm)                                  | 16.79     | 16.72  | 16.61  | 15.44    | 15.57  | 15.57  | 15.63  | 15.56  | 15.76  |
| ERP(Watts)                                | 0.0478    | 0.0470 | 0.0458 | 0.0350   | 0.0361 | 0.0361 | 0.0366 | 0.0360 | 0.0377 |



| LTE Band 41 CA (GT - LC = 1.00 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)                   | 23.51     | 23.42  | 23.38  | 23.23    | 23.42  | 23.42  | 23.51    | 23.45  | 23.06  |
| Conducted Power (Watts)                 | 0.2244    | 0.2198 | 0.2178 | 0.2104   | 0.2198 | 0.2198 | 0.2244   | 0.2213 | 0.2023 |
| EIRP(dBm)                               | 24.51     | 24.42  | 24.38  | 24.23    | 24.42  | 24.42  | 24.51    | 24.45  | 24.06  |
| EIRP(Watts)                             | 0.2825    | 0.2767 | 0.2742 | 0.2649   | 0.2767 | 0.2767 | 0.2825   | 0.2786 | 0.2547 |

| LTE Band 41 CA (GT - LC = 1.00 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)                   | 23.32     | 23.4   | 23.25  | 23.55     | 23.17  | 23.53  | 23.50     | 23.44  | 23.27  |
| Conducted Power (Watts)                 | 0.2148    | 0.2188 | 0.2113 | 0.2265    | 0.2075 | 0.2254 | 0.2239    | 0.2208 | 0.2123 |
| EIRP(dBm)                               | 24.32     | 24.40  | 24.25  | 24.55     | 24.17  | 24.53  | 24.50     | 24.44  | 24.27  |
| EIRP(Watts)                             | 0.2704    | 0.2754 | 0.2661 | 0.2851    | 0.2612 | 0.2838 | 0.2818    | 0.2780 | 0.2673 |



| LTE Band 41 CA (GT - LC = 1.00 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)                   | 23.52   | 23.5   | 23.29  | 23.46   | 23.37  | 23.4   |
| Conducted Power (Watts)                 | 0.2249  | 0.2239 | 0.2133 | 0.2218  | 0.2173 | 0.2188 |
| EIRP(dBm)                               | 24.52   | 24.50  | 24.29  | 24.46   | 24.37  | 24.40  |
| EIRP(Watts)                             | 0.2831  | 0.2818 | 0.2685 | 0.2793  | 0.2735 | 0.2754 |

| LTE Band 41 CA (GT - LC = 1.00 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)                   | 23.53   | 23.47  | 23.35  | 23.35   | 23.39  | 23.42  |
| Conducted Power (Watts)                 | 0.2254  | 0.2223 | 0.2163 | 0.2163  | 0.2183 | 0.2198 |
| EIRP(dBm)                               | 24.53   | 24.47  | 24.35  | 24.35   | 24.39  | 24.42  |
| EIRP(Watts)                             | 0.2838  | 0.2799 | 0.2723 | 0.2723  | 0.2748 | 0.2767 |

| LTE Band 41 CA (GT - LC = 1.00 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)                    | 22.60     | 22.51  | 22.47  | 22.33    | 22.51  | 22.53  | 22.59    | 22.53  | 22.12  |
| Conducted Power (Watts)                  | 0.1820    | 0.1782 | 0.1766 | 0.1710   | 0.1782 | 0.1791 | 0.1816   | 0.1791 | 0.1629 |
| EIRP(dBm)                                | 23.60     | 23.51  | 23.47  | 23.33    | 23.51  | 23.53  | 23.59    | 23.53  | 23.12  |
| EIRP(Watts)                              | 0.2291    | 0.2244 | 0.2223 | 0.2153   | 0.2244 | 0.2254 | 0.2286   | 0.2254 | 0.2051 |

| LTE Band 41 CA (GT - LC = 1.00 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)                    | 22.40     | 22.46  | 22.31  | 22.66     | 22.28  | 22.61  | 22.62     | 22.54  | 22.37  |
| Conducted Power (Watts)                  | 0.1738    | 0.1762 | 0.1702 | 0.1845    | 0.1690 | 0.1824 | 0.1828    | 0.1795 | 0.1726 |
| EIRP(dBm)                                | 23.40     | 23.46  | 23.31  | 23.66     | 23.28  | 23.61  | 23.62     | 23.54  | 23.37  |
| EIRP(Watts)                              | 0.2188    | 0.2218 | 0.2143 | 0.2323    | 0.2128 | 0.2296 | 0.2301    | 0.2259 | 0.2173 |





| LTE Band 41 CA (GT - LC = 1.00 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)                    | 22.63   | 22.6   | 22.39  | 22.57   | 22.44  | 22.48  |
| Conducted Power (Watts)                  | 0.1832  | 0.1820 | 0.1734 | 0.1807  | 0.1754 | 0.1770 |
| EIRP(dBm)                                | 23.63   | 23.60  | 23.39  | 23.57   | 23.44  | 23.48  |
| EIRP(Watts)                              | 0.2307  | 0.2291 | 0.2183 | 0.2275  | 0.2208 | 0.2228 |

| LTE Band 41 CA (GT - LC = 1.00 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)                    | 22.61   | 22.57  | 22.41  | 22.43   | 22.47  | 22.52  |
| Conducted Power (Watts)                  | 0.1824  | 0.1807 | 0.1742 | 0.1750  | 0.1766 | 0.1786 |
| EIRP(dBm)                                | 23.61   | 23.57  | 23.41  | 23.43   | 23.47  | 23.52  |
| EIRP(Watts)                              | 0.2296  | 0.2275 | 0.2193 | 0.2203  | 0.2223 | 0.2249 |



| LTE Band 41 CA (GT - LC = 1.00 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)                    | 20.57     | 20.55  | 20.37  | 20.37    | 20.45  | 20.34  | 20.49    | 20.98  | 19.84  |
| Conducted Power (Watts)                  | 0.1140    | 0.1135 | 0.1089 | 0.1089   | 0.1109 | 0.1081 | 0.1119   | 0.1253 | 0.0964 |
| EIRP(dBm)                                | 21.57     | 21.55  | 21.37  | 21.37    | 21.45  | 21.34  | 21.49    | 21.98  | 20.84  |
| EIRP(Watts)                              | 0.1435    | 0.1429 | 0.1371 | 0.1371   | 0.1396 | 0.1361 | 0.1409   | 0.1578 | 0.1213 |

| LTE Band 41 CA (GT - LC = 1.00 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)                    | 20.43     | 20.47  | 20.32  | 20.80     | 20.42  | 20.79  | 20.52     | 20.47  | 20.3   |
| Conducted Power (Watts)                  | 0.1104    | 0.1114 | 0.1076 | 0.1202    | 0.1102 | 0.1199 | 0.1127    | 0.1114 | 0.1072 |
| EIRP(dBm)                                | 21.43     | 21.47  | 21.32  | 21.80     | 21.42  | 21.79  | 21.52     | 21.47  | 21.30  |
| EIRP(Watts)                              | 0.1390    | 0.1403 | 0.1355 | 0.1514    | 0.1387 | 0.1510 | 0.1419    | 0.1403 | 0.1349 |



| LTE Band 41 CA (GT - LC = 1.00 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)                    | 20.58   | 20.53  | 20.32  | 21.10   | 21.03  | 20.99  |
| Conducted Power (Watts)                  | 0.1143  | 0.1130 | 0.1076 | 0.1288  | 0.1268 | 0.1256 |
| EIRP(dBm)                                | 21.58   | 21.53  | 21.32  | 22.10   | 22.03  | 21.99  |
| EIRP(Watts)                              | 0.1439  | 0.1422 | 0.1355 | 0.1622  | 0.1596 | 0.1581 |

| LTE Band 41 CA (GT - LC = 1.00 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)                    | 21.12   | 20.83  | 20.16  | 20.44   | 20.48  | 20.37  |
| Conducted Power (Watts)                  | 0.1294  | 0.1211 | 0.1038 | 0.1107  | 0.1117 | 0.1089 |
| EIRP(dBm)                                | 22.12   | 21.83  | 21.16  | 21.44   | 21.48  | 21.37  |
| EIRP(Watts)                              | 0.1629  | 0.1524 | 0.1306 | 0.1393  | 0.1406 | 0.1371 |

## 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  | 3.42               | 4.46    | 5.19        | 5.83    | PASS        |
| Middle CH  | 4.41               | 3.59    | 5.74        | 5.30    |             |
| Highest CH | 3.45               | 4.58    | 5.01        | 5.83    |             |
| Mod.       | 64QAM              |         | Limit: 13dB |         |             |
| RB Size    | 1RB                | Full RB | Result      |         |             |
| Lowest CH  | 5.33               | 5.83    | PASS        |         |             |
| Middle CH  | 5.68               | 5.59    |             |         |             |
| Highest CH | 5.04               | 5.86    |             |         |             |

| Mode       | LTE Band 12 / 10MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.57                | 4.81    | 5.22        | 6.06    | PASS        |
| Middle CH  | 3.74                | 4.78    | 5.65        | 6.06    |             |
| Highest CH | 3.77                | 4.61    | 5.68        | 5.97    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 5.16                | 6.03    | PASS        |         |             |
| Middle CH  | 5.42                | 6.03    |             |         |             |
| Highest CH | 5.36                | 5.91    |             |         |             |

| Mode       | LTE Band 13 / 10MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | -                   | -       | -           | -       | PASS        |
| Middle CH  | 3.88                | 4.90    | 5.33        | 6.17    |             |
| Highest CH | -                   | -       | -           | -       |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  |                     |         | PASS        |         |             |
| Middle CH  | 5.30                | 6.17    |             |         |             |
| Highest CH |                     |         |             |         |             |

| Mode       | LTE Band 25 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.39                | 4.26    | 4.93        | 5.48    | PASS        |
| Middle CH  | 3.62                | 4.7     | 5.28        | 6.14    |             |
| Highest CH | 3.39                | 4.78    | 4.72        | 6.14    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 6.2                 | 6.09    | PASS        |         |             |
| Middle CH  | 6.81                | 6.52    |             |         |             |
| Highest CH | 6.35                | 6.67    |             |         |             |

| Mode       | LTE Band 26 / 15MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.59                | 4.61    | 4.99        | 5.74    | PASS        |
| Middle CH  | 3.36                | 4.81    | 5.01        | 6.06    |             |
| Highest CH | 3.45                | 4.84    | 5.16        | 6.12    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 5.33                | 5.80    | PASS        |         |             |
| Middle CH  | 5.04                | 6.00    |             |         |             |
| Highest CH | 4.99                | 6.09    |             |         |             |

| Mode       | LTE Band 41 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 5.33                | 5.51    | 5.80        | 6.67    | PASS        |
| Middle CH  | 4.26                | 5.83    | 6.29        | 5.91    |             |
| Highest CH | 5.57                | 5.88    | 5.68        | 5.97    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 6.87                | 6.64    | PASS        |         |             |
| Middle CH  | 6.67                | 6.70    |             |         |             |
| Highest CH | 6.61                | 6.81    |             |         |             |



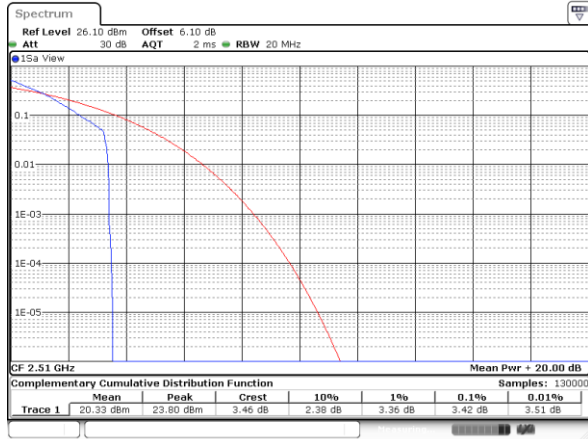
| Mode       | LTE Band 66 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.74                | 4.90    | 5.39        | 6.29    | PASS        |
| Middle CH  | 3.97                | 4.55    | 5.74        | 5.94    |             |
| Highest CH | 3.30                | 4.54    | 4.67        | 5.77    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 5.36                | 6.26    | PASS        |         |             |
| Middle CH  | 5.97                | 6.00    |             |         |             |
| Highest CH | 4.93                | 5.83    |             |         |             |

| Mode       | LTE Band 71 / 20MHz |         |             |         |             |
|------------|---------------------|---------|-------------|---------|-------------|
| Mod.       | QPSK                |         | 16QAM       |         | Limit: 13dB |
| RB Size    | 1RB                 | Full RB | 1RB         | Full RB | Result      |
| Lowest CH  | 3.10                | 4.20    | 4.49        | 5.62    | PASS        |
| Middle CH  | 3.25                | 4.23    | 4.61        | 5.45    |             |
| Highest CH | 3.22                | 4.23    | 4.84        | 5.45    |             |
| Mod.       | 64QAM               |         | Limit: 13dB |         |             |
| RB Size    | 1RB                 | Full RB | Result      |         |             |
| Lowest CH  | 5.97                | 6.09    | PASS        |         |             |
| Middle CH  | 6.12                | 6.03    |             |         |             |
| Highest CH | 5.59                | 6.06    |             |         |             |

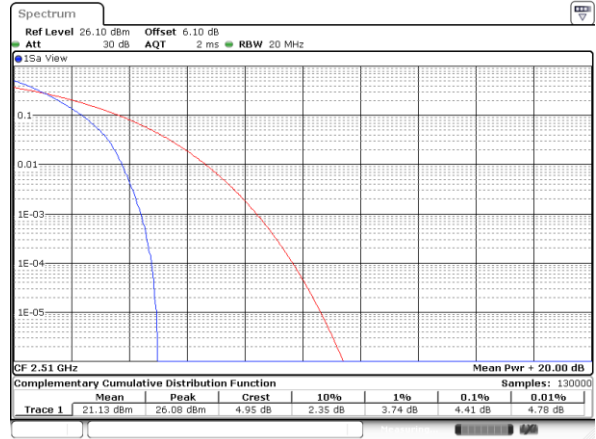


## LTE Band 7 / 20MHz / QPSK

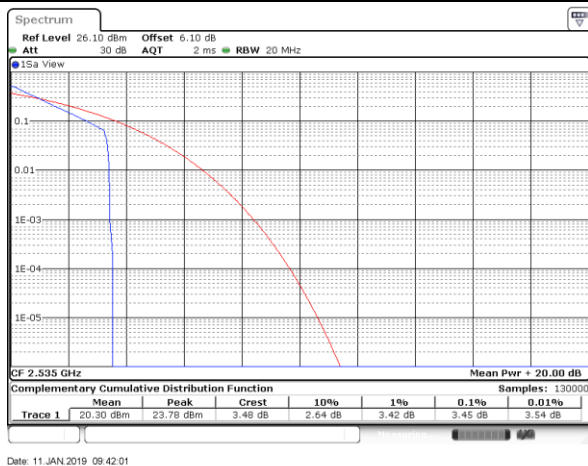
## Lowest Channel / 1RB



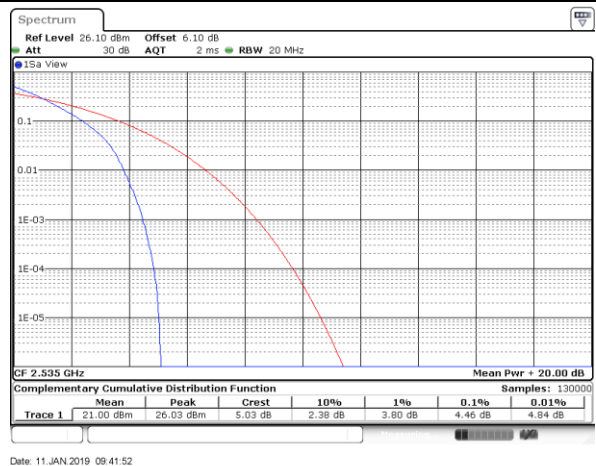
## Lowest Channel / Full RB



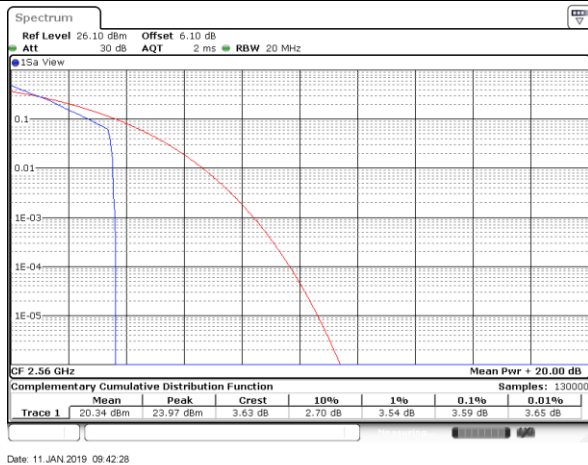
## Middle Channel / 1RB



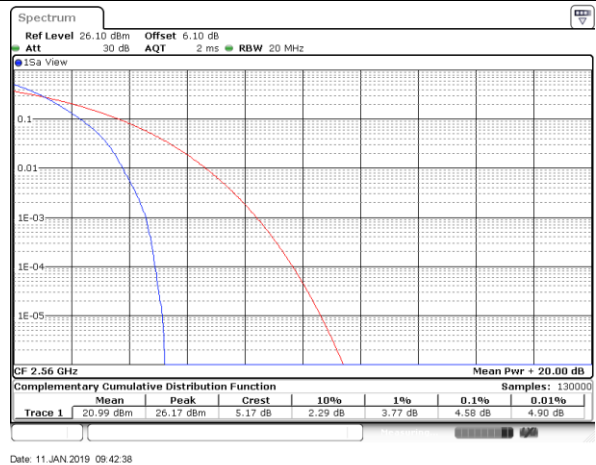
## Middle Channel / Full RB



## Highest Channel / 1RB



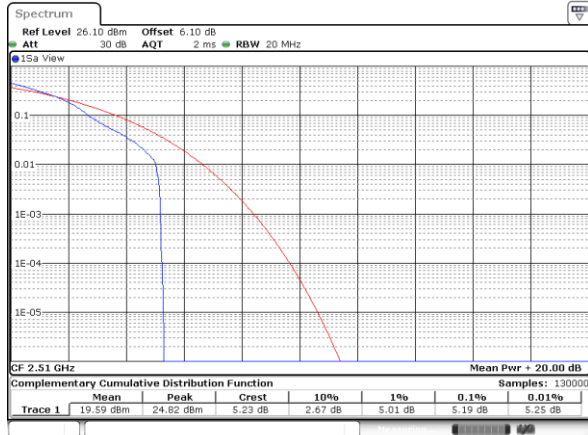
## Highest Channel / Full RB



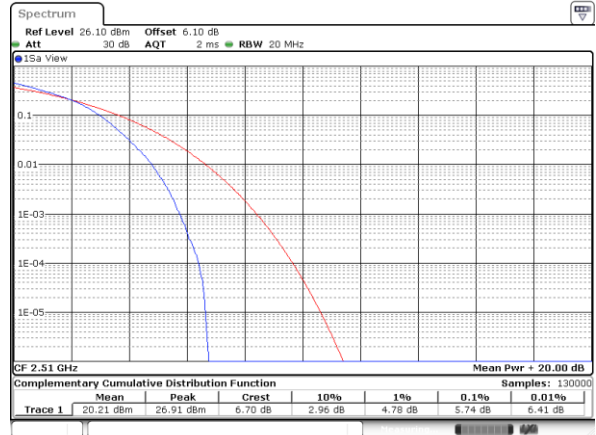


## LTE Band 7 / 20MHz / 16QAM

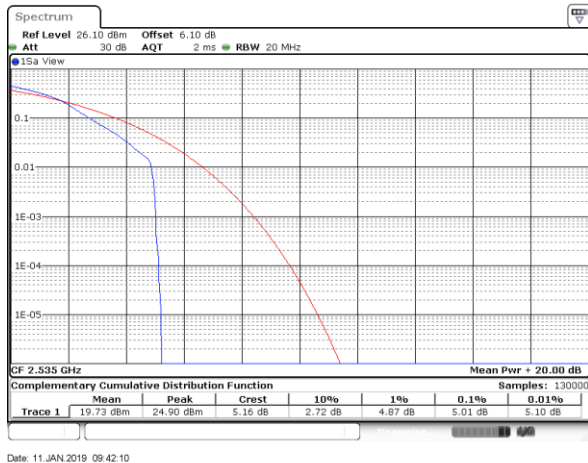
## Lowest Channel / 1RB



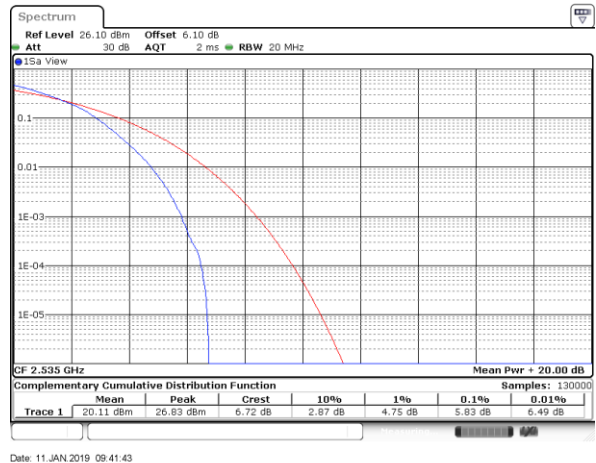
## Lowest Channel / Full RB



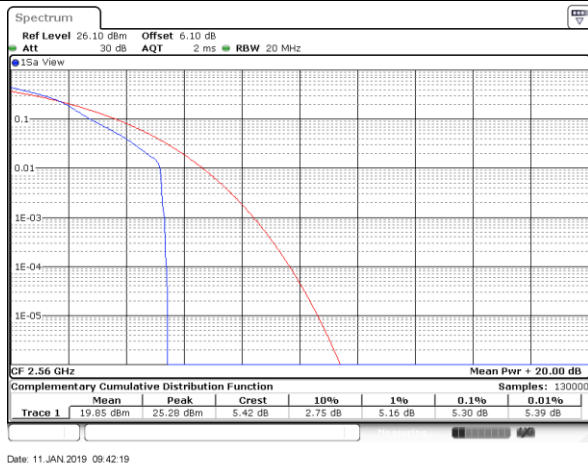
## Middle Channel / 1RB



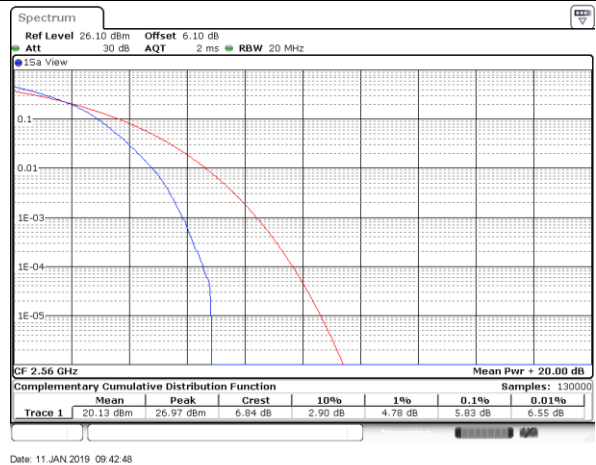
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





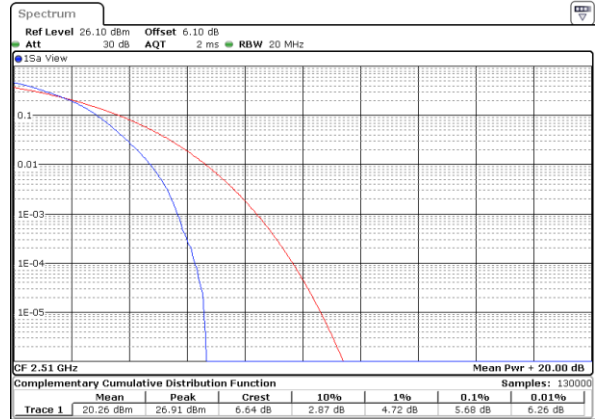


## LTE Band 7 / 20MHz / 64QAM

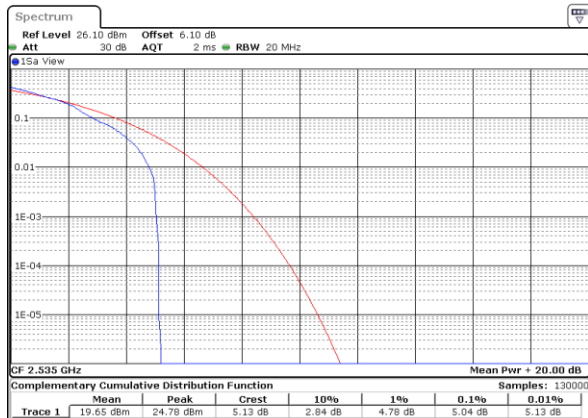
## Lowest Channel / 1RB



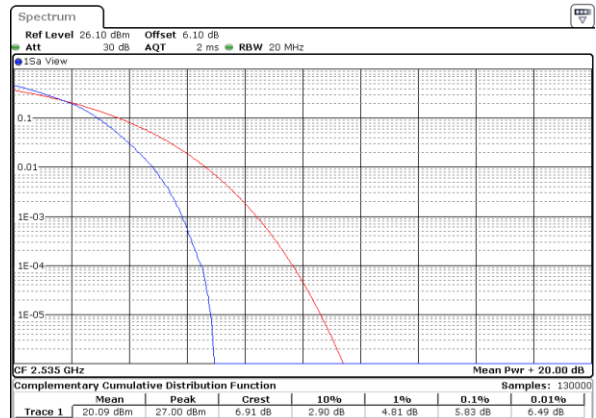
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



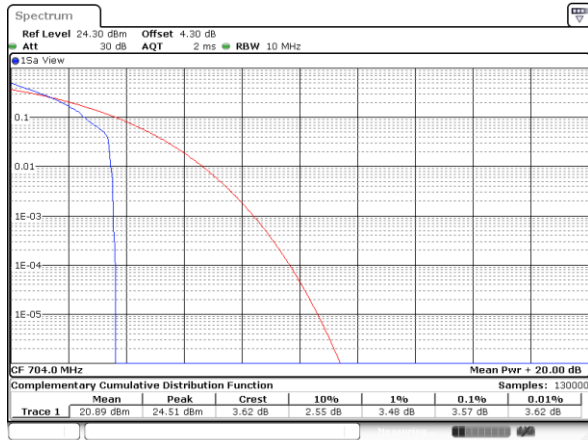
## Highest Channel / Full RB



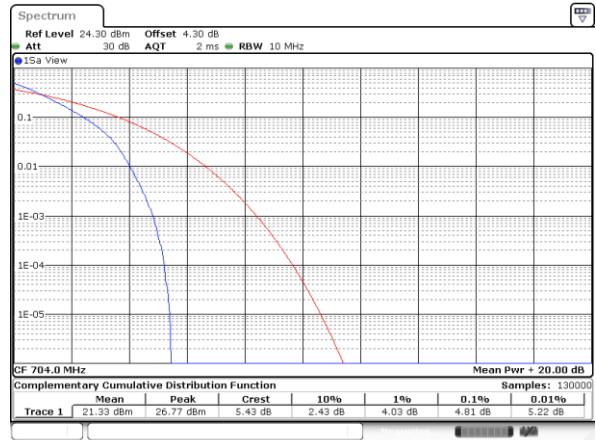


## LTE Band 12 / 10MHz / QPSK

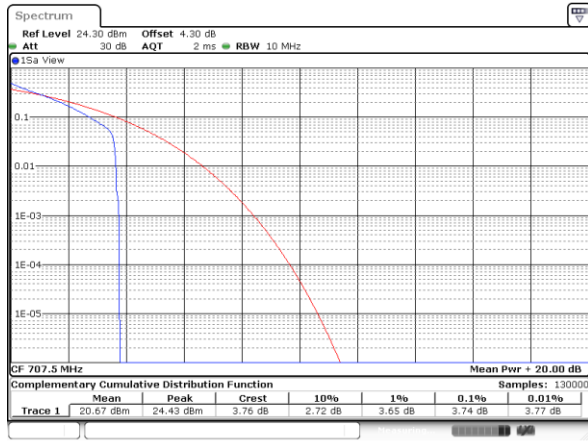
## Lowest Channel / 1RB



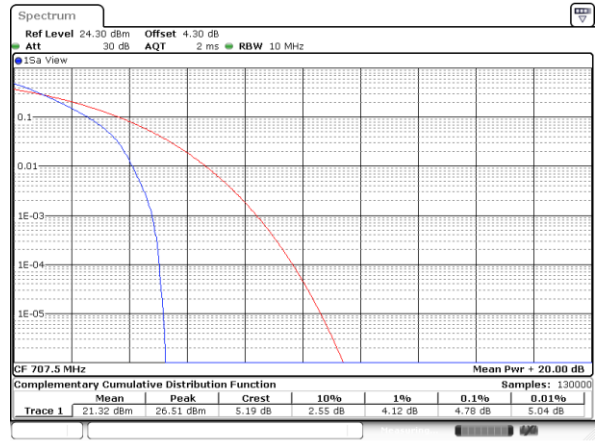
## Lowest Channel / Full RB



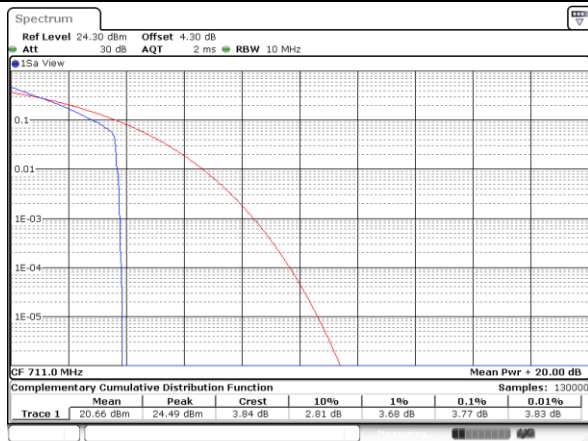
## Middle Channel / 1RB



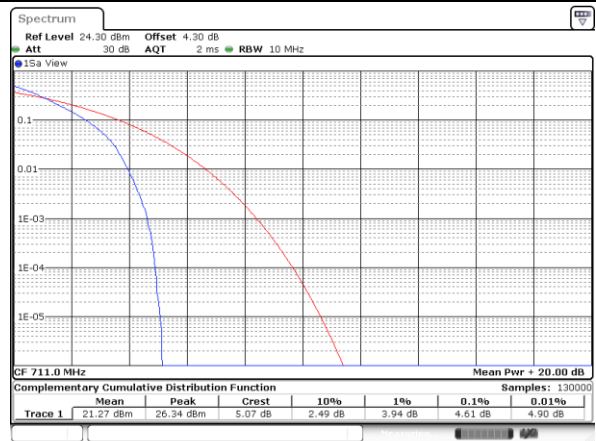
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



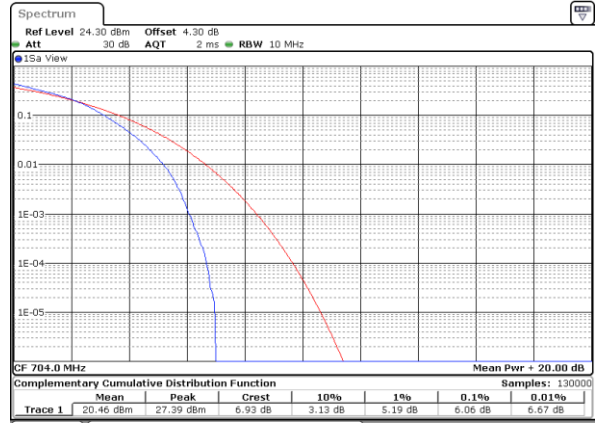


## LTE Band 12 / 10MHz / 16QAM

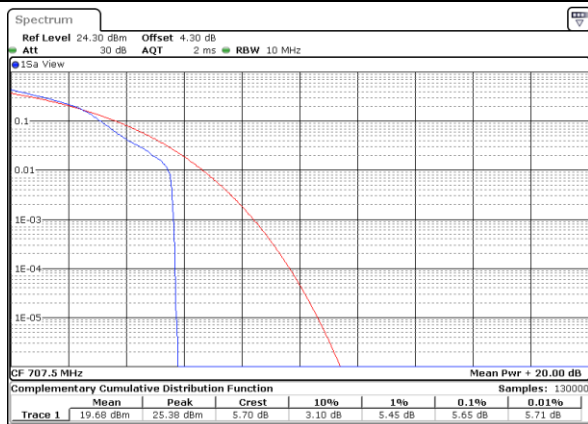
## Lowest Channel / 1RB



## Lowest Channel / Full RB



## Middle Channel / 1RB



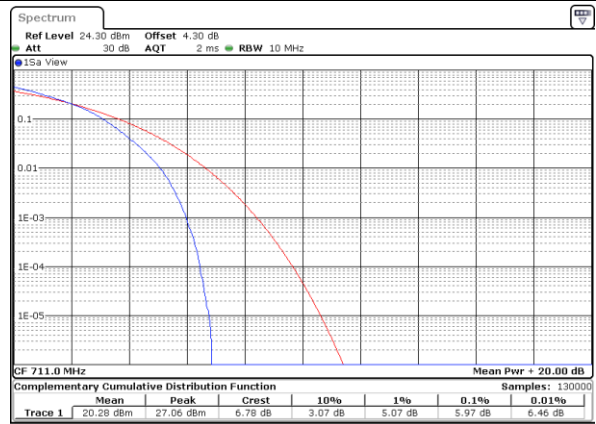
## Middle Channel / Full RB



## Highest Channel / 1RB



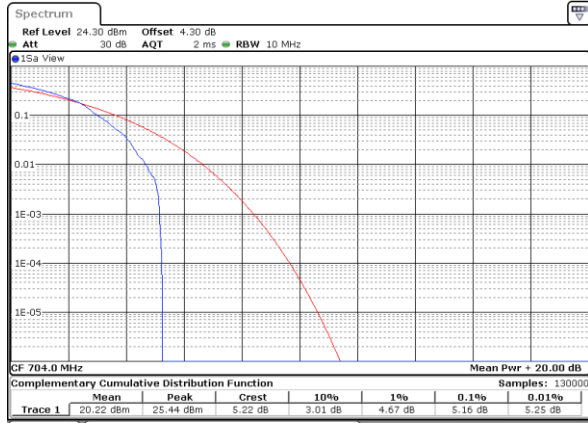
## Highest Channel / Full RB





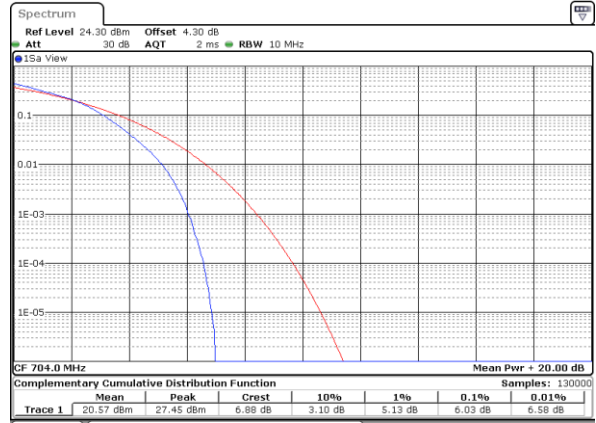
## LTE Band 12 / 10MHz / 64QAM

## Lowest Channel / 1RB



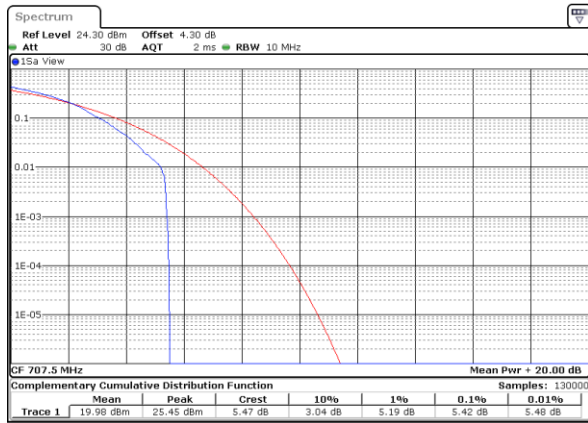
Date: 17 JAN 2019 12:38:39

## Lowest Channel / Full RB



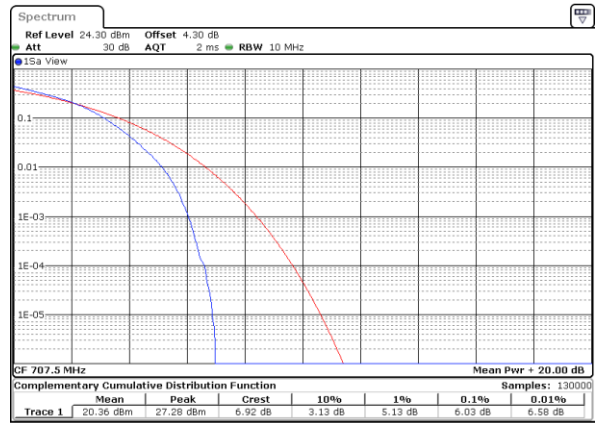
Date: 17 JAN 2019 12:38:49

## Middle Channel / 1RB



Date: 17 JAN 2019 12:38:59

## Middle Channel / Full RB



Date: 17 JAN 2019 12:39:00

## Highest Channel / 1RB

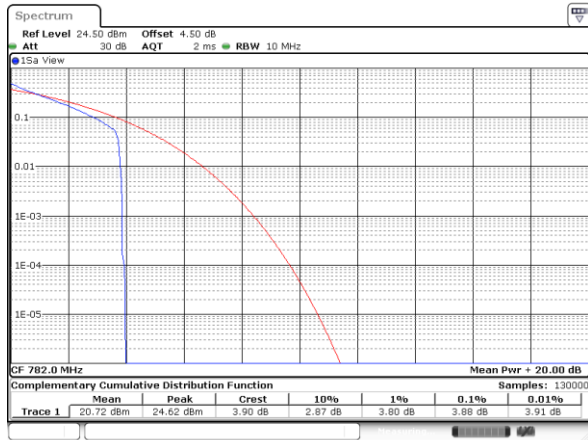


Date: 17 JAN 2019 12:39:20

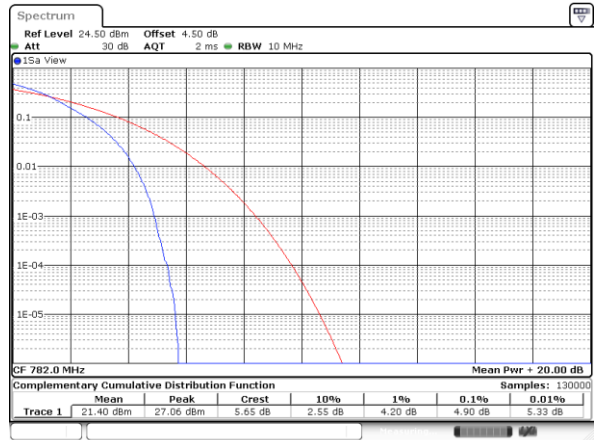
## Highest Channel / Full RB



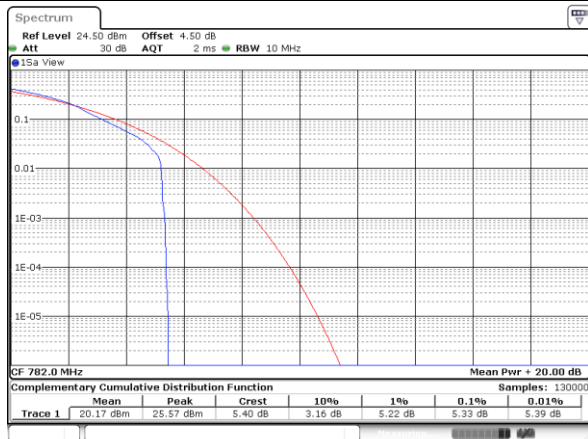
Date: 17 JAN 2019 12:39:30

**LTE Band 13 / 10MHz / QPSK**
**Middle Channel/ 1RB**


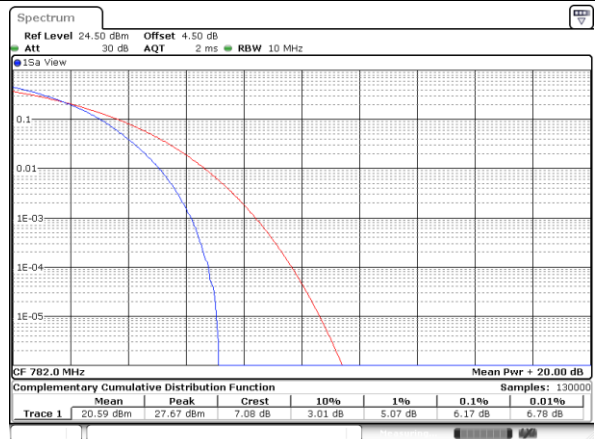
Date: 23 JAN 2019 19:37:29

**Middle Channel / Full RB**


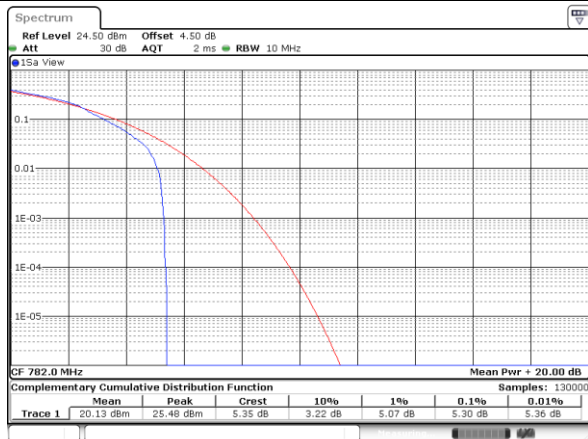
Date: 23 JAN 2019 19:30:04

**LTE Band 13 / 10MHz / 16QAM**
**Middle Channel/ 1RB**


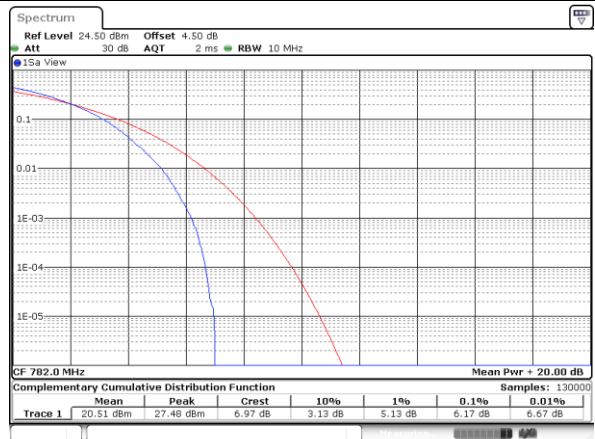
Date: 23 JAN 2019 19:38:43

**Middle Channel / Full RB**


Date: 23 JAN 2019 19:27:23

**LTE Band 13 / 10MHz / 64QAM**
**Middle Channel/ 1RB**


Date: 23 JAN 2019 19:39:51

**Middle Channel / Full RB**


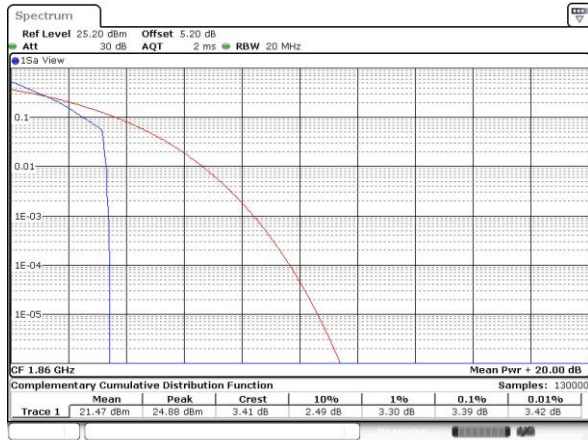
Date: 23 JAN 2019 19:22:50





## LTE Band 25 / 20MHz / QPSK

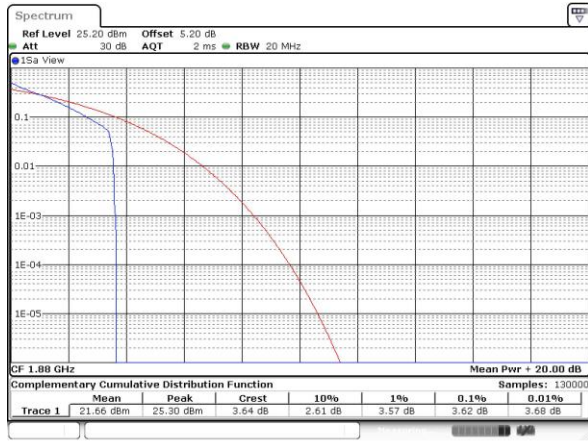
## Lowest Channel / 1RB



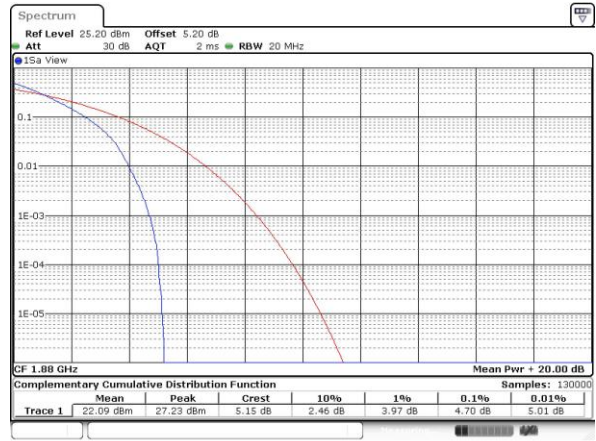
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



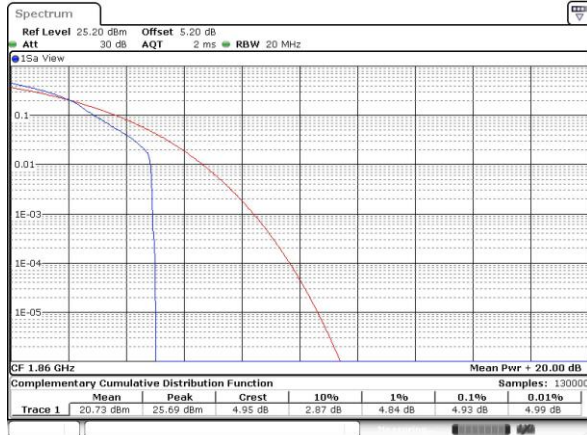
## Highest Channel / Full RB



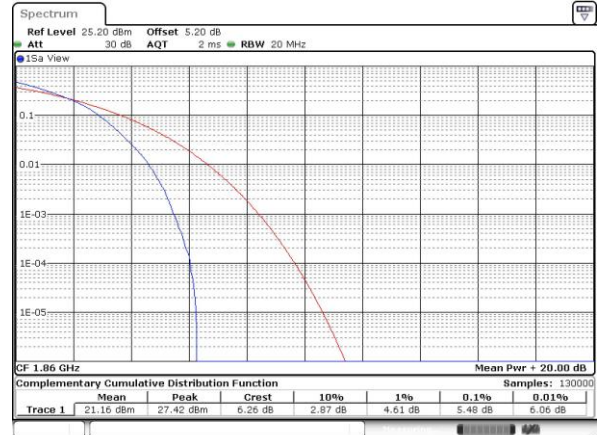


## LTE Band 25 / 20MHz / 16QAM

## Lowest Channel / 1RB



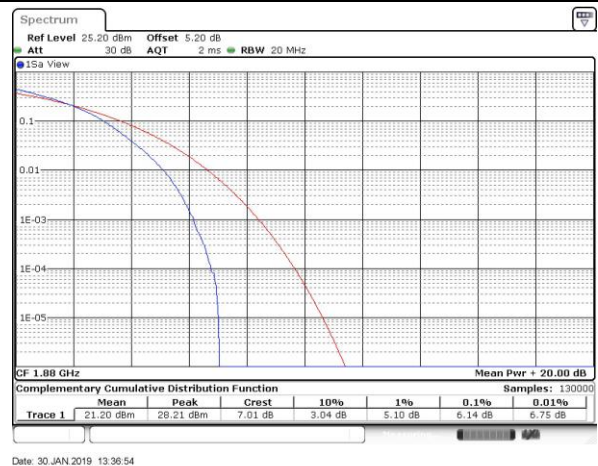
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





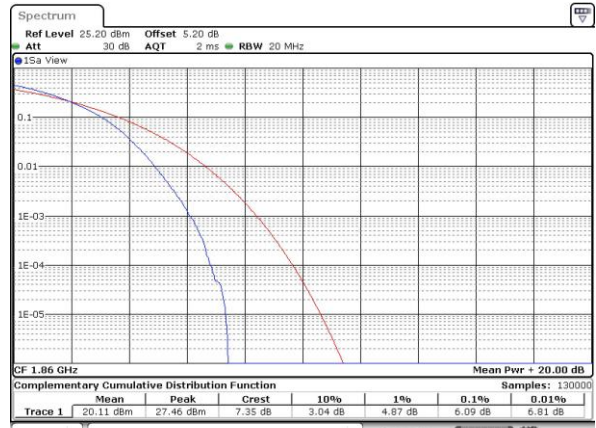
## LTE Band 25 / 20MHz / 64QAM

## Lowest Channel / 1RB



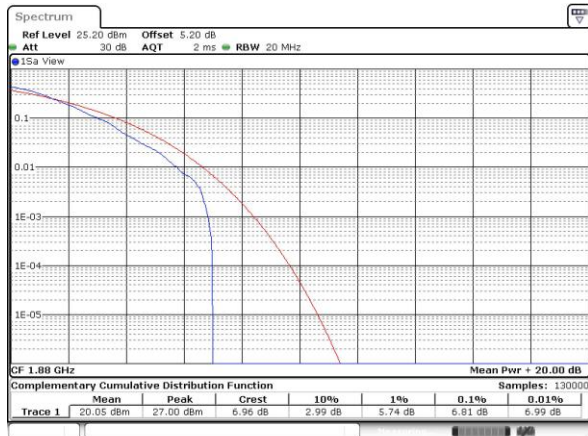
Date: 30 JAN 2019 13:35:59

## Lowest Channel / Full RB



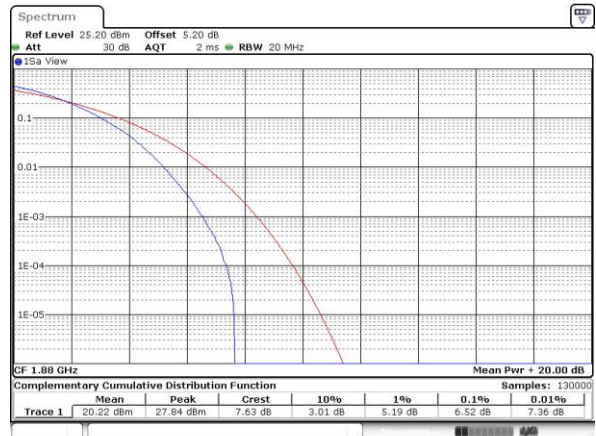
Date: 30 JAN 2019 13:36:10

## Middle Channel / 1RB



Date: 30 JAN 2019 13:37:17

## Middle Channel / Full RB



Date: 30 JAN 2019 13:37:06

## Highest Channel / 1RB



Date: 30 JAN 2019 13:38:13

## Highest Channel / Full RB



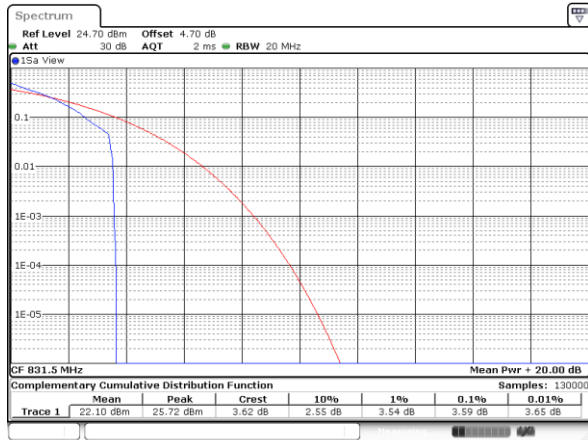
Date: 30 JAN 2019 13:38:37





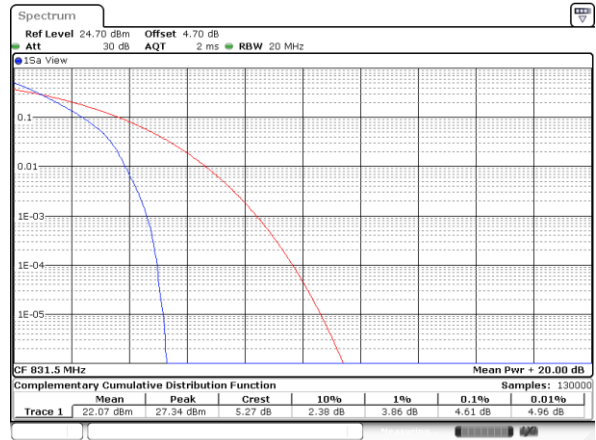
## LTE Band 26 / 15MHz / QPSK

## Lowest Channel / 1RB



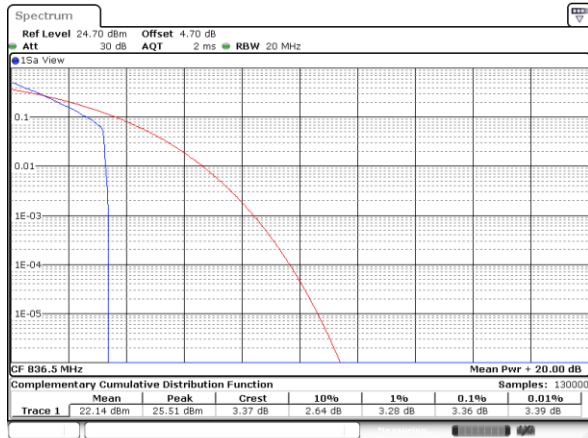
Date: 6 FEB 2019 11:04:56

## Lowest Channel / Full RB



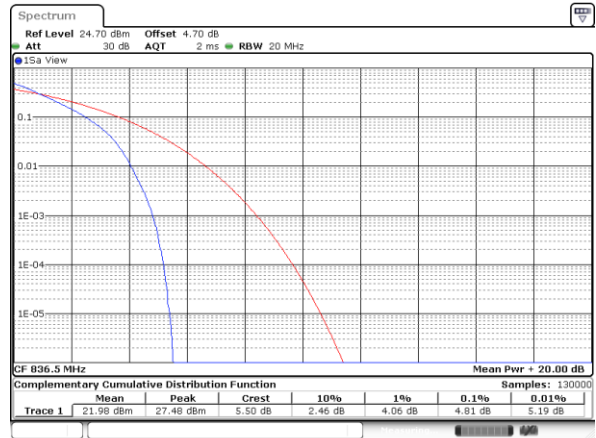
Date: 6 FEB 2019 11:09:30

## Middle Channel / 1RB



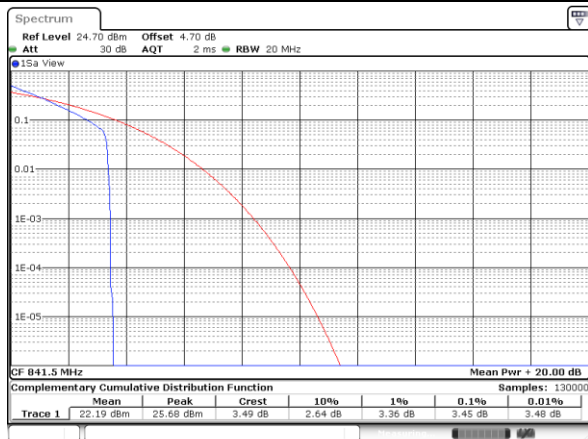
Date: 6 FEB 2019 11:08:34

## Middle Channel / Full RB



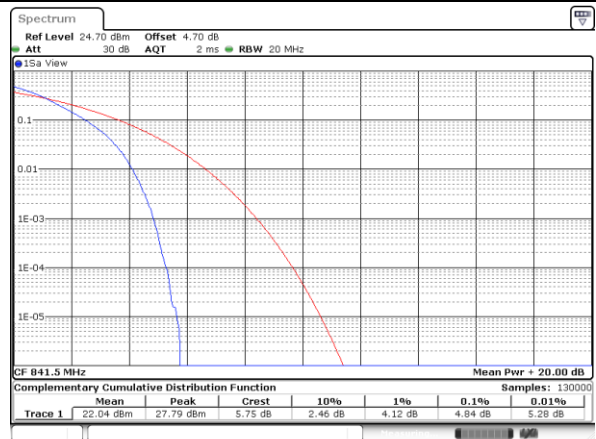
Date: 6 FEB 2019 11:10:29

## Highest Channel / 1RB



Date: 6 FEB 2019 11:08:44

## Highest Channel / Full RB

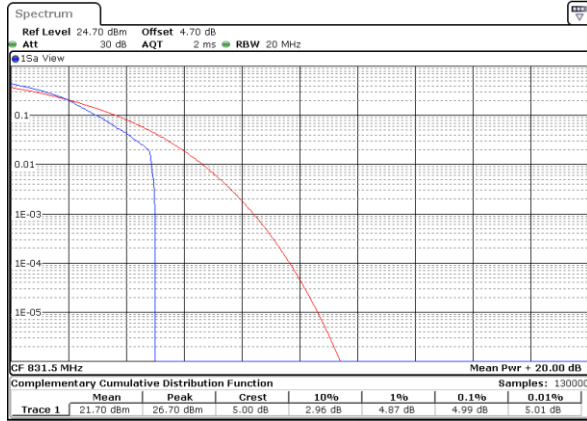


Date: 6 FEB 2019 11:10:47

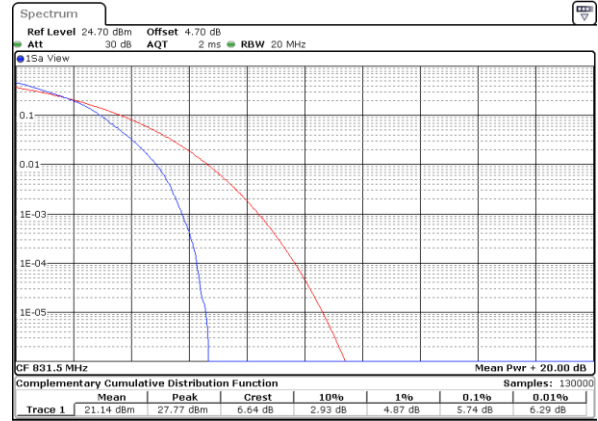


## LTE Band 26 / 15MHz / 16QAM

## Lowest Channel / 1RB



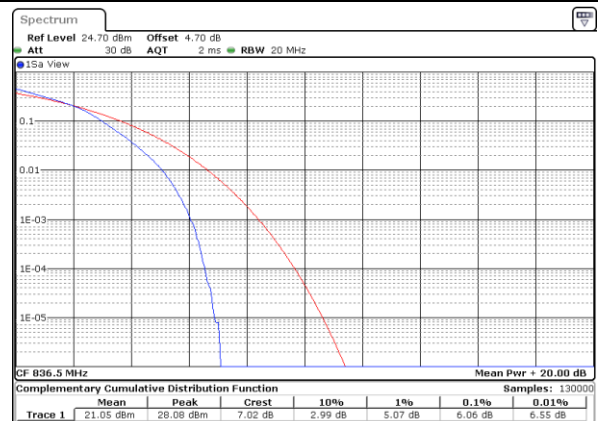
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB

