



REPORT No. : SZ23020309W02

# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Tablet

**MODEL NAME** : M10L PLUS

**BRAND NAME** : BLU

**FCC ID** : YHLBLUM10LPS

**STANDARD(S)** : 47 CFR Part 2  
47 CFR Part 22, Subpart H  
47 CFR Part 24, Subpart E  
47 CFR Part 27, Subpart H&L&N

**RECEIPT DATE** : 2023-03-03

**TEST DATE** : 2023-03-17 to 2023-03-28

**ISSUE DATE** : 2023-04-17

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| Change History |            |                   |
|----------------|------------|-------------------|
| Version        | Date       | Reason for change |
| 1.0            | 2023-04-17 | First edition     |
|                |            |                   |



# 1. Technical Information

**Note:** Provide by applicant.

## 1.1. Applicant and Manufacturer Information

|                              |                                                      |
|------------------------------|------------------------------------------------------|
| <b>Applicant:</b>            | BLU Products, Inc.                                   |
| <b>Applicant Address:</b>    | 8600 NW 36th Street, Suite #200 Doral, FL 33166, USA |
| <b>Manufacturer:</b>         | BLU Products, Inc.                                   |
| <b>Manufacturer Address:</b> | 8600 NW 36th Street, Suite #200 Doral, FL 33166, USA |

## 1.2. Equipment Under Test (EUT) Description

|                             |                                          |                     |
|-----------------------------|------------------------------------------|---------------------|
| <b>Product Name:</b>        | Tablet                                   |                     |
| <b>Sample No.:</b>          | 5#                                       |                     |
| <b>Hardware Version:</b>    | S866T-T310-V2.0-221229-L1                |                     |
| <b>Software Version:</b>    | BLU_M0223_V12.0.04.01_GENERIC_25_02_2023 |                     |
| <b>Modulation Type:</b>     | QPSK, 16QAM                              |                     |
| <b>Carrier Aggregation:</b> | Not Support                              |                     |
| <b>Operation Band:</b>      | Band 2 / 4 / 5 / 7 / 12 / 17 / 66 / 71   |                     |
| <b>Frequency Range:</b>     | LTE Band 2                               | Tx: 1850MHz–1910MHz |
|                             |                                          | Rx: 1930MHz–1990MHz |
|                             | LTE Band 4                               | Tx: 1710MHz–1755MHz |
|                             |                                          | Rx: 2110MHz–2155MHz |
|                             | LTE Band 5                               | Tx: 824MHz–849MHz   |
|                             |                                          | Rx: 869MHz–894MHz   |
|                             | LTE Band 7                               | Tx: 2500MHz–2570MHz |
|                             |                                          | Rx: 2620MHz–2690MHz |
|                             | LTE Band 12                              | Tx: 699MHz–716MHz   |
|                             |                                          | Rx: 729MHz–746MHz   |
|                             | LTE Band 17                              | Tx: 704MHz–716MHz   |
|                             |                                          | Rx: 734MHz–746MHz   |
|                             | LTE Band 66                              | Tx: 1710MHz–1780MHz |
|                             |                                          | Rx: 2110MHz–2200MHz |
|                             | LTE Band 71                              | Tx: 663MHz–698MHz   |
|                             |                                          | Rx: 617MHz–652MHz   |



|                               |                |                                          |
|-------------------------------|----------------|------------------------------------------|
| <b>Channel Bandwidth:</b>     | LTE Band 2     | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz  |
|                               | LTE Band 4     | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz  |
|                               | LTE Band 5     | 1.4MHz, 3MHz, 5MHz, 10MHz                |
|                               | LTE Band 7     | 5 MHz, 10MHz, 15MHz, 20MHz               |
|                               | LTE Band 12    | 1.4MHz, 3 MHz, 5 MHz, 10MHz              |
|                               | LTE Band 17    | 5 MHz, 10MHz                             |
|                               | LTE Band 66    | 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz  |
|                               | LTE Band 71    | 5MHz, 10MHz, 15MHz, 20MHz                |
| <b>Antenna Type:</b>          | PIFA Antenna   |                                          |
| <b>Antenna Gain:</b>          | LTE Band 2     | 1.75dBi                                  |
|                               | LTE Band 4     | 1.49dBi                                  |
|                               | LTE Band 5     | 0.89dBi                                  |
|                               | LTE Band 12    | -1.06dBi                                 |
|                               | LTE Band 17    | -1.25dBi                                 |
|                               | LTE Band 66    | 1.49dBi                                  |
|                               | LTE Band 71    | -1.06dBi                                 |
| <b>Accessory Information:</b> | Battery        |                                          |
|                               | Brand Name:    | BLU                                      |
|                               | Model No.:     | C1279829500P                             |
|                               | Serial No.:    | N/A                                      |
|                               | Capacity:      | 5000mAh                                  |
|                               | Rated Voltage: | 3.8V                                     |
|                               | Charge Limit:  | 4.35V                                    |
|                               | Manufacturer:  | Shenzhen Jiajinyuan Technology Co., LTD  |
|                               | AC Adapter     |                                          |
|                               | Brand Name:    | BLU                                      |
|                               | Model No.:     | US-HY-2000                               |
|                               | Serial No.:    | N/A                                      |
|                               | Rated Output:  | 5V $\Rightarrow$ 2000mA                  |
|                               | Rated Input:   | 100-240V $\sim$ 50/60Hz, 0.3A            |
|                               | Manufacturer:  | Shenzhen Zhongfu Core Technology Co. LTD |

**Note 1:** For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

### 1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

| LTE Band 2  | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
|-------------|-----------------------------|-------|------------------------------|---------|
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 20          | 0.356                       | 0.292 | 18M0G7D                      | 18M0W7D |
| 15          | 0.354                       | 0.296 | 13M5G7D                      | 13M5W7D |
| 10          | 0.355                       | 0.292 | 9M01G7D                      | 8M98W7D |
| 5           | 0.353                       | 0.289 | 4M50G7D                      | 4M50W7D |
| 3           | 0.354                       | 0.296 | 2M72G7D                      | 2M72W7D |
| 1.4         | 0.352                       | 0.292 | 1M10G7D                      | 1M10W7D |
| LTE Band 4  | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 20          | 0.327                       | 0.269 | 18M0G7D                      | 18M1W7D |
| 15          | 0.324                       | 0.265 | 13M5G7D                      | 13M5W7D |
| 10          | 0.325                       | 0.271 | 9M03G7D                      | 8M98W7D |
| 5           | 0.324                       | 0.270 | 4M51G7D                      | 4M51W7D |
| 3           | 0.325                       | 0.273 | 2M73G7D                      | 2M73W7D |
| 1.4         | 0.324                       | 0.275 | 1M10G7D                      | 1M10W7D |
| LTE Band 5  | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 10          | 0.163                       | 0.129 | 9M02G7D                      | 8M98W7D |
| 5           | 0.162                       | 0.130 | 4M50G7D                      | 4M50W7D |
| 3           | 0.163                       | 0.131 | 2M72G7D                      | 2M72W7D |
| 1.4         | 0.161                       | 0.131 | 1M09G7D                      | 1M10W7D |
| LTE Band 7  | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 20          | 0.233                       | 0.189 | 18M0G7D                      | 18M0W7D |
| 15          | 0.232                       | 0.187 | 13M5G7D                      | 13M5W7D |
| 10          | 0.231                       | 0.190 | 9M01G7D                      | 9M01W7D |
| 5           | 0.231                       | 0.189 | 4M51G7D                      | 4M51W7D |
| LTE Band 12 | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 10          | 0.104                       | 0.083 | 9M02G7D                      | 8M97W7D |
| 5           | 0.104                       | 0.083 | 4M50G7D                      | 4M50W7D |
| 3           | 0.103                       | 0.084 | 2M71G7D                      | 2M72W7D |
| 1.4         | 0.103                       | 0.083 | 1M10G7D                      | 1M10W7D |



| <b>LTE Band 17</b> | <b>Maximum E.R.P./E.I.R.P. (W)</b> |       | <b>Emission Designator (99%OBW)</b> |         |
|--------------------|------------------------------------|-------|-------------------------------------|---------|
| BW(MHz)            | QPSK                               | 16QAM | QPSK                                | 16QAM   |
| 10                 | 0.099                              | 0.079 | 9M00G7D                             | 8M97W7D |
| 5                  | 0.098                              | 0.079 | 4M50G7D                             | 4M50W7D |
| <b>LTE Band 66</b> | <b>Maximum E.R.P./E.I.R.P. (W)</b> |       | <b>Emission Designator (99%OBW)</b> |         |
| BW(MHz)            | QPSK                               | 16QAM | QPSK                                | 16QAM   |
| 20                 | 0.343                              | 0.275 | 18M0G7D                             | 18M1W7D |
| 15                 | 0.340                              | 0.274 | 13M5G7D                             | 13M5W7D |
| 10                 | 0.341                              | 0.272 | 9M01G7D                             | 9M00W7D |
| 5                  | 0.339                              | 0.274 | 4M50G7D                             | 4M52W7D |
| 3                  | 0.341                              | 0.274 | 2M73G7D                             | 2M73W7D |
| 1.4                | 0.340                              | 0.273 | 1M10G7D                             | 1M11W7D |
| <b>LTE Band 71</b> | <b>Maximum E.R.P./E.I.R.P. (W)</b> |       | <b>Emission Designator (99%OBW)</b> |         |
| BW(MHz)            | QPSK                               | 16QAM | QPSK                                | 16QAM   |
| 20                 | 0.084                              | 0.066 | 18M0G7D                             | 18M0W7D |
| 15                 | 0.083                              | 0.066 | 13M5G7D                             | 13M5W7D |
| 10                 | 0.083                              | 0.066 | 9M04G7D                             | 9M02W7D |
| 5                  | 0.083                              | 0.066 | 4M51G7D                             | 4M51W7D |



## 1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2, Part 22, Part 24, Part 27 for the EUT FCC ID Certification:

| No. | Identity       | Document Title                                                                |
|-----|----------------|-------------------------------------------------------------------------------|
| 1   | 47 CFR Part 2  | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2   | 47 CFR Part 22 | Public Mobile Services                                                        |
| 3   | 47 CFR Part 24 | Personal Communications Services                                              |
| 4   | 47 CFR Part 27 | Miscellaneous Wireless Communications Services                                |

Test detailed items/section required by FCC rules and results are as below:

| Section                                                                                           | Description                                                        | Test Date        | Test Engineer          | Result | Method Determination /Remark |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------|------------------------|--------|------------------------------|
| 2.1046<br>22.913(a)(2)<br>24.232(c)<br>27.50(b)(10)<br>27.50(c)(10)<br>27.50(d)(4)<br>27.50(h)(2) | Transmitter<br>Conducted<br>Output Power<br>and<br>E.R.P./E.I.R.P. | Mar. 28, 2023    | Chen Hao<br>Li Huaijie | PASS   | No deviation                 |
| 2.1049                                                                                            | Occupied<br>Bandwidth                                              | Mar. 17, 2023    | Li Huaijie             | PASS   | No deviation                 |
| 2.1055<br>22.355<br>24.235<br>27.54                                                               | Frequency<br>Stability                                             | Mar. 20, 2023    | Li Huaijie             | PASS   | No deviation                 |
| 24.232(d),<br>27.50(d)(5)                                                                         | Peak to<br>Average Radio                                           | Mar. 20, 2023    | Li Huaijie             | PASS   | No deviation                 |
| 2.1051<br>22.917(a)<br>24.238(a)<br>27.53(c)(2)<br>27.53(g)<br>27.53(h)<br>27.53(m)               | Conducted<br>Spurious<br>Emissions                                 | Mar. 20, 2023    | Li Huaijie             | PASS   | No deviation                 |
| 2.1051<br>22.917(a)                                                                               | Band Edge                                                          | Mar. 17&20, 2023 | Li Huaijie             | PASS   | No deviation                 |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |               |             |      |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|-------------|------|--------------|
| 24.238(a)<br>27.53(g)<br>27.53(h)<br>27.53(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |               |             |      |              |
| 2.1053<br>22.917(a)<br>24.238(a)<br>27.53(g)<br>27.53(h)<br>27.53(m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Radiated<br>Spurious<br>Emissions | Mar. 28, 2023 | Gao Jianrou | PASS | No deviation |
| <p><b>Note 1:</b> The tests were performed according to the method of measurements prescribed in KDB971168 D01 v03 and ANSI/TIA-603-E-2016.</p> <p><b>Note 2:</b> The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.</p> <p><b>Note 3:</b> Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.</p> <p><b>Note 4:</b> When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.</p> |                                   |               |             |      |              |

## 1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

|                             |        |
|-----------------------------|--------|
| Temperature (°C):           | 15-35  |
| Relative Humidity (%):      | 30-60  |
| Atmospheric Pressure (kPa): | 86-106 |

## 2.47 CFR Part 2, Part 22H, Part 24E, Part 27 H&L&N Requirements

### 2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

#### 2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

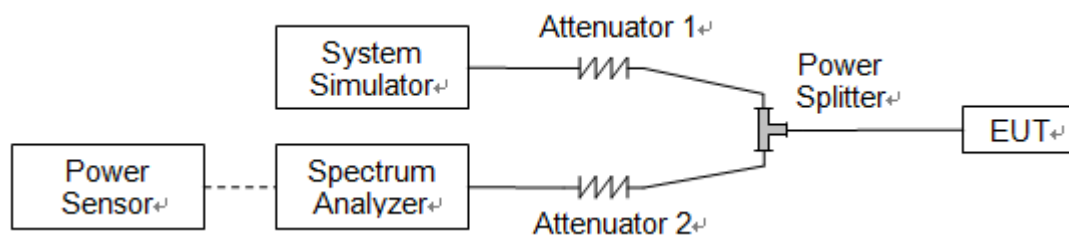
According to FCC section 27.50 (d)(4) for LTE Band 4/66, Fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat E.I.R.P.

According to FCC section 22.913 (a)(2) for LTE Band 5, the E.R.P. of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 27.50 (h)(2) for LTE Band 7, Mobile and other user stations. Mobile stations are limited to 2 watts E.I.R.P. All user stations are limited to 2 watts transmitter output power.

According to FCC section 27.50 (c)(10) for LTE Band 12/17/71, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts E.R.P.

#### 2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.



### 2.1.3. Test Procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

E.I.R.P. (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)

E.R.P. (dBm) = E.I.R.P. (dBm) - 2.15

### 2.1.4. Result

#### Conducted Output Power:

| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18700                         | 18900                            | 19100                          |
| Frequency (MHz) |            |         |           | 1860                          | 1880                             | 1900                           |
| 20              | QPSK       | 1       | 0         | 23.71                         | 23.77                            | 23.75                          |
| 20              | QPSK       | 1       | 49        | 23.66                         | 23.72                            | 23.64                          |
| 20              | QPSK       | 1       | 99        | 23.67                         | 23.68                            | 23.70                          |
| 20              | QPSK       | 50      | 0         | 22.69                         | 22.75                            | 22.73                          |
| 20              | QPSK       | 50      | 24        | 22.63                         | 22.66                            | 22.62                          |
| 20              | QPSK       | 50      | 50        | 22.55                         | 22.59                            | 22.70                          |
| 20              | QPSK       | 100     | 0         | 22.61                         | 22.67                            | 22.64                          |
| 20              | 16QAM      | 1       | 0         | 22.90                         | 22.88                            | 22.84                          |
| 20              | 16QAM      | 1       | 49        | 22.75                         | 22.91                            | 22.82                          |
| 20              | 16QAM      | 1       | 99        | 22.73                         | 22.83                            | 22.76                          |
| 20              | 16QAM      | 50      | 0         | 21.79                         | 21.91                            | 21.83                          |
| 20              | 16QAM      | 50      | 24        | 21.68                         | 21.86                            | 21.71                          |
| 20              | 16QAM      | 50      | 50        | 21.74                         | 21.77                            | 21.69                          |
| 20              | 16QAM      | 100     | 0         | 21.82                         | 21.84                            | 21.76                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18675                         | 18900                            | 19125                          |
| Frequency (MHz) |            |         |           | 1857.5                        | 1880                             | 1902.5                         |
| 15              | QPSK       | 1       | 0         | 23.70                         | 23.74                            | 23.72                          |
| 15              | QPSK       | 1       | 37        | 23.54                         | 23.57                            | 23.63                          |
| 15              | QPSK       | 1       | 74        | 23.65                         | 23.66                            | 23.60                          |
| 15              | QPSK       | 36      | 0         | 22.74                         | 22.82                            | 22.77                          |
| 15              | QPSK       | 36      | 20        | 22.58                         | 22.64                            | 22.62                          |
| 15              | QPSK       | 36      | 39        | 22.60                         | 22.55                            | 22.53                          |
| 15              | QPSK       | 75      | 0         | 22.59                         | 22.64                            | 22.74                          |
| 15              | 16QAM      | 1       | 0         | 22.82                         | 22.96                            | 22.89                          |
| 15              | 16QAM      | 1       | 37        | 22.89                         | 22.88                            | 22.82                          |
| 15              | 16QAM      | 1       | 74        | 22.65                         | 22.83                            | 22.58                          |
| 15              | 16QAM      | 36      | 0         | 21.70                         | 21.89                            | 21.93                          |
| 15              | 16QAM      | 36      | 20        | 21.81                         | 21.74                            | 21.78                          |
| 15              | 16QAM      | 36      | 39        | 21.75                         | 21.63                            | 21.58                          |
| 15              | 16QAM      | 75      | 0         | 21.72                         | 21.66                            | 21.75                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18650                         | 18900                            | 19150                          |
| Frequency (MHz) |            |         |           | 1855                          | 1880                             | 1905                           |
| 10              | QPSK       | 1       | 0         | 23.64                         | 23.75                            | 23.71                          |
| 10              | QPSK       | 1       | 25        | 23.62                         | 23.73                            | 23.57                          |
| 10              | QPSK       | 1       | 49        | 23.74                         | 23.52                            | 23.62                          |
| 10              | QPSK       | 25      | 0         | 22.80                         | 22.85                            | 22.84                          |
| 10              | QPSK       | 25      | 12        | 22.55                         | 22.64                            | 22.57                          |
| 10              | QPSK       | 25      | 25        | 22.69                         | 22.52                            | 22.83                          |
| 10              | QPSK       | 50      | 0         | 22.75                         | 22.69                            | 22.57                          |
| 10              | 16QAM      | 1       | 0         | 22.80                         | 22.73                            | 22.69                          |
| 10              | 16QAM      | 1       | 25        | 22.85                         | 22.71                            | 22.91                          |
| 10              | 16QAM      | 1       | 49        | 22.87                         | 22.84                            | 22.75                          |
| 10              | 16QAM      | 25      | 0         | 21.89                         | 21.76                            | 21.65                          |
| 10              | 16QAM      | 25      | 12        | 21.49                         | 21.65                            | 21.64                          |
| 10              | 16QAM      | 25      | 25        | 21.65                         | 21.63                            | 21.82                          |
| 10              | 16QAM      | 50      | 0         | 21.76                         | 21.78                            | 21.57                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18625                         | 18900                            | 19175                          |
| Frequency (MHz) |            |         |           | 1852.5                        | 1880                             | 1907.5                         |
| 5               | QPSK       | 1       | 0         | 23.61                         | 23.73                            | 23.65                          |
| 5               | QPSK       | 1       | 12        | 23.67                         | 23.53                            | 23.71                          |
| 5               | QPSK       | 1       | 24        | 23.62                         | 23.69                            | 23.64                          |
| 5               | QPSK       | 12      | 0         | 22.57                         | 22.56                            | 22.76                          |
| 5               | QPSK       | 12      | 7         | 22.70                         | 22.59                            | 22.57                          |
| 5               | QPSK       | 12      | 13        | 22.67                         | 22.66                            | 22.58                          |
| 5               | QPSK       | 25      | 0         | 22.70                         | 22.53                            | 22.46                          |
| 5               | 16QAM      | 1       | 0         | 22.83                         | 22.85                            | 22.86                          |
| 5               | 16QAM      | 1       | 12        | 22.62                         | 22.79                            | 22.85                          |
| 5               | 16QAM      | 1       | 24        | 22.53                         | 22.81                            | 22.79                          |
| 5               | 16QAM      | 12      | 0         | 21.86                         | 21.95                            | 21.91                          |
| 5               | 16QAM      | 12      | 7         | 21.71                         | 21.96                            | 21.57                          |
| 5               | 16QAM      | 12      | 13        | 21.59                         | 21.83                            | 21.79                          |
| 5               | 16QAM      | 25      | 0         | 21.70                         | 21.92                            | 21.78                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18615                         | 18900                            | 19185                          |
| Frequency (MHz) |            |         |           | 1851.5                        | 1880                             | 1908.5                         |
| 3               | QPSK       | 1       | 0         | 23.65                         | 23.74                            | 23.60                          |
| 3               | QPSK       | 1       | 8         | 23.59                         | 23.70                            | 23.61                          |
| 3               | QPSK       | 1       | 14        | 23.68                         | 23.64                            | 23.59                          |
| 3               | QPSK       | 8       | 0         | 22.62                         | 22.74                            | 22.55                          |
| 3               | QPSK       | 8       | 4         | 22.45                         | 22.47                            | 22.49                          |
| 3               | QPSK       | 8       | 7         | 22.49                         | 22.67                            | 22.64                          |
| 3               | QPSK       | 15      | 0         | 22.52                         | 22.60                            | 22.64                          |
| 3               | 16QAM      | 1       | 0         | 22.97                         | 22.90                            | 22.71                          |
| 3               | 16QAM      | 1       | 8         | 22.88                         | 22.95                            | 22.77                          |
| 3               | 16QAM      | 1       | 14        | 22.77                         | 22.71                            | 22.71                          |
| 3               | 16QAM      | 8       | 0         | 21.73                         | 21.77                            | 21.66                          |
| 3               | 16QAM      | 8       | 4         | 21.60                         | 21.91                            | 21.82                          |
| 3               | 16QAM      | 8       | 7         | 21.58                         | 21.88                            | 21.68                          |
| 3               | 16QAM      | 15      | 0         | 21.72                         | 21.81                            | 21.71                          |



| LTE Band 2      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 18607                         | 18900                            | 19193                          |
| Frequency (MHz) |            |         |           | 1850.7                        | 1880                             | 1909.3                         |
| 1.4             | QPSK       | 1       | 0         | 23.66                         | 23.72                            | 23.69                          |
| 1.4             | QPSK       | 1       | 3         | 23.65                         | 23.65                            | 23.68                          |
| 1.4             | QPSK       | 1       | 5         | 23.52                         | 23.69                            | 23.67                          |
| 1.4             | QPSK       | 3       | 0         | 22.56                         | 22.64                            | 22.81                          |
| 1.4             | QPSK       | 3       | 1         | 22.70                         | 22.62                            | 22.50                          |
| 1.4             | QPSK       | 3       | 3         | 22.52                         | 22.71                            | 22.56                          |
| 1.4             | QPSK       | 6       | 0         | 22.61                         | 22.56                            | 22.50                          |
| 1.4             | 16QAM      | 1       | 0         | 22.81                         | 22.78                            | 22.89                          |
| 1.4             | 16QAM      | 1       | 3         | 22.77                         | 22.89                            | 22.91                          |
| 1.4             | 16QAM      | 1       | 5         | 22.58                         | 22.77                            | 22.61                          |
| 1.4             | 16QAM      | 3       | 0         | 21.92                         | 21.88                            | 21.98                          |
| 1.4             | 16QAM      | 3       | 1         | 21.72                         | 21.95                            | 21.58                          |
| 1.4             | 16QAM      | 3       | 3         | 21.86                         | 21.82                            | 21.69                          |
| 1.4             | 16QAM      | 6       | 0         | 21.74                         | 21.90                            | 21.63                          |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20050                               | 20175                                  | 20300                                |
| Frequency (MHz) |            |            |              | 1720                                | 1732.5                                 | 1745                                 |
| 20              | QPSK       | 1          | 0            | 23.60                               | 23.65                                  | 23.56                                |
| 20              | QPSK       | 1          | 49           | 23.55                               | 23.55                                  | 23.41                                |
| 20              | QPSK       | 1          | 99           | 23.51                               | 23.56                                  | 23.55                                |
| 20              | QPSK       | 50         | 0            | 22.69                               | 22.76                                  | 22.73                                |
| 20              | QPSK       | 50         | 24           | 22.57                               | 22.64                                  | 22.63                                |
| 20              | QPSK       | 50         | 50           | 22.61                               | 22.67                                  | 22.51                                |
| 20              | QPSK       | 100        | 0            | 22.57                               | 22.60                                  | 22.54                                |
| 20              | 16QAM      | 1          | 0            | 22.69                               | 22.81                                  | 22.65                                |
| 20              | 16QAM      | 1          | 49           | 22.75                               | 22.68                                  | 22.75                                |
| 20              | 16QAM      | 1          | 99           | 22.58                               | 22.79                                  | 22.57                                |
| 20              | 16QAM      | 50         | 0            | 21.45                               | 21.64                                  | 21.58                                |
| 20              | 16QAM      | 50         | 24           | 21.44                               | 21.57                                  | 21.51                                |
| 20              | 16QAM      | 50         | 50           | 21.48                               | 21.59                                  | 21.62                                |
| 20              | 16QAM      | 100        | 0            | 21.69                               | 21.66                                  | 21.61                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20025                               | 20175                                  | 20325                                |
| Frequency (MHz) |            |            |              | 1717.5                              | 1732.5                                 | 1747.5                               |
| 15              | QPSK       | 1          | 0            | 23.53                               | 23.62                                  | 23.55                                |
| 15              | QPSK       | 1          | 37           | 23.48                               | 23.53                                  | 23.59                                |
| 15              | QPSK       | 1          | 74           | 23.54                               | 23.60                                  | 23.56                                |
| 15              | QPSK       | 36         | 0            | 22.64                               | 22.79                                  | 22.58                                |
| 15              | QPSK       | 36         | 20           | 22.63                               | 22.55                                  | 22.49                                |
| 15              | QPSK       | 36         | 39           | 22.59                               | 22.53                                  | 22.56                                |
| 15              | QPSK       | 75         | 0            | 22.60                               | 22.51                                  | 22.63                                |
| 15              | 16QAM      | 1          | 0            | 22.59                               | 22.75                                  | 22.65                                |
| 15              | 16QAM      | 1          | 37           | 22.51                               | 22.66                                  | 22.75                                |
| 15              | 16QAM      | 1          | 74           | 22.61                               | 22.67                                  | 22.74                                |
| 15              | 16QAM      | 36         | 0            | 21.63                               | 21.73                                  | 21.65                                |
| 15              | 16QAM      | 36         | 20           | 21.62                               | 21.72                                  | 21.56                                |
| 15              | 16QAM      | 36         | 39           | 21.58                               | 21.66                                  | 21.53                                |
| 15              | 16QAM      | 75         | 0            | 21.68                               | 21.72                                  | 21.53                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20000                               | 20175                                  | 20350                                |
| Frequency (MHz) |            |            |              | 1715                                | 1732.5                                 | 1750                                 |
| 10              | QPSK       | 1          | 0            | 23.58                               | 23.63                                  | 23.59                                |
| 10              | QPSK       | 1          | 25           | 23.59                               | 23.57                                  | 23.57                                |
| 10              | QPSK       | 1          | 49           | 23.53                               | 23.51                                  | 23.60                                |
| 10              | QPSK       | 25         | 0            | 22.58                               | 22.76                                  | 22.57                                |
| 10              | QPSK       | 25         | 12           | 22.52                               | 22.63                                  | 22.60                                |
| 10              | QPSK       | 25         | 25           | 22.59                               | 22.62                                  | 22.51                                |
| 10              | QPSK       | 50         | 0            | 22.63                               | 22.51                                  | 22.55                                |
| 10              | 16QAM      | 1          | 0            | 22.84                               | 22.81                                  | 22.77                                |
| 10              | 16QAM      | 1          | 25           | 22.47                               | 22.59                                  | 22.52                                |
| 10              | 16QAM      | 1          | 49           | 22.64                               | 22.60                                  | 22.68                                |
| 10              | 16QAM      | 25         | 0            | 21.52                               | 21.75                                  | 21.59                                |
| 10              | 16QAM      | 25         | 12           | 21.57                               | 21.70                                  | 21.64                                |
| 10              | 16QAM      | 25         | 25           | 21.48                               | 21.72                                  | 21.61                                |
| 10              | 16QAM      | 50         | 0            | 21.56                               | 21.74                                  | 21.60                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19975                               | 20175                                  | 20375                                |
| Frequency (MHz) |            |            |              | 1712.5                              | 1732.5                                 | 1752.5                               |
| 5               | QPSK       | 1          | 0            | 23.55                               | 23.61                                  | 23.53                                |
| 5               | QPSK       | 1          | 12           | 23.50                               | 23.59                                  | 23.56                                |
| 5               | QPSK       | 1          | 24           | 23.52                               | 23.53                                  | 23.60                                |
| 5               | QPSK       | 12         | 0            | 22.57                               | 22.69                                  | 22.60                                |
| 5               | QPSK       | 12         | 7            | 22.51                               | 22.46                                  | 22.51                                |
| 5               | QPSK       | 12         | 13           | 22.48                               | 22.54                                  | 22.51                                |
| 5               | QPSK       | 25         | 0            | 22.54                               | 22.53                                  | 22.57                                |
| 5               | 16QAM      | 1          | 0            | 22.69                               | 22.81                                  | 22.70                                |
| 5               | 16QAM      | 1          | 12           | 22.60                               | 22.60                                  | 22.54                                |
| 5               | 16QAM      | 1          | 24           | 22.63                               | 22.83                                  | 22.53                                |
| 5               | 16QAM      | 12         | 0            | 21.49                               | 21.76                                  | 21.66                                |
| 5               | 16QAM      | 12         | 7            | 21.63                               | 21.55                                  | 21.42                                |
| 5               | 16QAM      | 12         | 13           | 21.68                               | 21.47                                  | 21.55                                |
| 5               | 16QAM      | 25         | 0            | 21.66                               | 21.71                                  | 21.75                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19965                               | 20175                                  | 20385                                |
| Frequency (MHz) |            |            |              | 1711.5                              | 1732.5                                 | 1753.5                               |
| 3               | QPSK       | 1          | 0            | 23.58                               | 23.63                                  | 23.60                                |
| 3               | QPSK       | 1          | 8            | 23.58                               | 23.62                                  | 23.58                                |
| 3               | QPSK       | 1          | 14           | 23.55                               | 23.53                                  | 23.57                                |
| 3               | QPSK       | 8          | 0            | 22.68                               | 22.67                                  | 22.57                                |
| 3               | QPSK       | 8          | 4            | 22.51                               | 22.58                                  | 22.54                                |
| 3               | QPSK       | 8          | 7            | 22.63                               | 22.55                                  | 22.63                                |
| 3               | QPSK       | 15         | 0            | 22.63                               | 22.54                                  | 22.65                                |
| 3               | 16QAM      | 1          | 0            | 22.56                               | 22.87                                  | 22.61                                |
| 3               | 16QAM      | 1          | 8            | 22.49                               | 22.59                                  | 22.54                                |
| 3               | 16QAM      | 1          | 14           | 22.55                               | 22.49                                  | 22.56                                |
| 3               | 16QAM      | 8          | 0            | 21.50                               | 21.80                                  | 21.53                                |
| 3               | 16QAM      | 8          | 4            | 21.59                               | 21.54                                  | 21.50                                |
| 3               | 16QAM      | 8          | 7            | 21.61                               | 21.68                                  | 21.54                                |
| 3               | 16QAM      | 15         | 0            | 21.53                               | 21.60                                  | 21.73                                |



| LTE Band 4      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 19957                               | 20175                                  | 20393                                |
| Frequency (MHz) |            |            |              | 1710.7                              | 1732.5                                 | 1754.3                               |
| 1.4             | QPSK       | 1          | 0            | 23.58                               | 23.62                                  | 23.51                                |
| 1.4             | QPSK       | 1          | 3            | 23.51                               | 23.53                                  | 23.46                                |
| 1.4             | QPSK       | 1          | 5            | 23.46                               | 23.54                                  | 23.52                                |
| 1.4             | QPSK       | 3          | 0            | 22.62                               | 22.66                                  | 22.58                                |
| 1.4             | QPSK       | 3          | 1            | 22.57                               | 22.57                                  | 22.54                                |
| 1.4             | QPSK       | 3          | 3            | 22.50                               | 22.58                                  | 22.59                                |
| 1.4             | QPSK       | 6          | 0            | 22.34                               | 22.64                                  | 22.32                                |
| 1.4             | 16QAM      | 1          | 0            | 22.82                               | 22.88                                  | 22.64                                |
| 1.4             | 16QAM      | 1          | 3            | 22.60                               | 22.91                                  | 22.54                                |
| 1.4             | 16QAM      | 1          | 5            | 22.60                               | 22.68                                  | 22.66                                |
| 1.4             | 16QAM      | 3          | 0            | 21.55                               | 21.85                                  | 21.52                                |
| 1.4             | 16QAM      | 3          | 1            | 21.50                               | 21.68                                  | 21.56                                |
| 1.4             | 16QAM      | 3          | 3            | 21.52                               | 21.61                                  | 21.53                                |
| 1.4             | 16QAM      | 6          | 0            | 21.53                               | 21.62                                  | 21.66                                |



| LTE Band 5      |            |         |              |                                     |                                        |                                      |
|-----------------|------------|---------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |         |              | 20450                               | 20525                                  | 20600                                |
| Frequency (MHz) |            |         |              | 829                                 | 836.5                                  | 844                                  |
| 10              | QPSK       | 1       | 0            | 23.23                               | 23.39                                  | 23.33                                |
| 10              | QPSK       | 1       | 25           | 23.13                               | 23.23                                  | 23.32                                |
| 10              | QPSK       | 1       | 49           | 23.29                               | 23.26                                  | 23.27                                |
| 10              | QPSK       | 25      | 0            | 22.29                               | 22.41                                  | 22.22                                |
| 10              | QPSK       | 25      | 12           | 22.36                               | 22.19                                  | 22.39                                |
| 10              | QPSK       | 25      | 25           | 22.34                               | 22.19                                  | 22.25                                |
| 10              | QPSK       | 50      | 0            | 22.18                               | 22.20                                  | 22.35                                |
| 10              | 16QAM      | 1       | 0            | 22.32                               | 22.33                                  | 22.30                                |
| 10              | 16QAM      | 1       | 25           | 22.28                               | 22.25                                  | 22.31                                |
| 10              | 16QAM      | 1       | 49           | 22.38                               | 22.36                                  | 22.23                                |
| 10              | 16QAM      | 25      | 0            | 21.43                               | 21.39                                  | 21.40                                |
| 10              | 16QAM      | 25      | 12           | 21.36                               | 21.45                                  | 21.21                                |
| 10              | 16QAM      | 25      | 25           | 21.22                               | 21.32                                  | 21.40                                |
| 10              | 16QAM      | 50      | 0            | 21.43                               | 21.43                                  | 21.44                                |



| LTE Band 5      |            |         |              |                                     |                                        |                                      |
|-----------------|------------|---------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |         |              | 20425                               | 20525                                  | 20625                                |
| Frequency (MHz) |            |         |              | 826.5                               | 836.5                                  | 846.5                                |
| 5               | QPSK       | 1       | 0            | 23.35                               | 23.36                                  | 23.30                                |
| 5               | QPSK       | 1       | 12           | 23.22                               | 23.26                                  | 23.14                                |
| 5               | QPSK       | 1       | 24           | 23.14                               | 23.25                                  | 23.19                                |
| 5               | QPSK       | 12      | 0            | 22.38                               | 22.40                                  | 22.21                                |
| 5               | QPSK       | 12      | 7            | 22.16                               | 22.32                                  | 22.25                                |
| 5               | QPSK       | 12      | 13           | 22.22                               | 22.04                                  | 22.30                                |
| 5               | QPSK       | 25      | 0            | 22.26                               | 22.16                                  | 22.21                                |
| 5               | 16QAM      | 1       | 0            | 22.22                               | 22.41                                  | 22.20                                |
| 5               | 16QAM      | 1       | 12           | 22.35                               | 22.26                                  | 22.33                                |
| 5               | 16QAM      | 1       | 24           | 22.37                               | 22.35                                  | 22.32                                |
| 5               | 16QAM      | 12      | 0            | 21.42                               | 21.40                                  | 21.32                                |
| 5               | 16QAM      | 12      | 7            | 21.21                               | 21.33                                  | 21.39                                |
| 5               | 16QAM      | 12      | 13           | 21.19                               | 21.22                                  | 21.41                                |
| 5               | 16QAM      | 25      | 0            | 21.36                               | 21.38                                  | 21.42                                |



| LTE Band 5      |            |         |              |                                     |                                        |                                      |
|-----------------|------------|---------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |         |              | 20415                               | 20525                                  | 20635                                |
| Frequency (MHz) |            |         |              | 825.5                               | 836.5                                  | 847.5                                |
| 3               | QPSK       | 1       | 0            | 23.21                               | 23.37                                  | 23.23                                |
| 3               | QPSK       | 1       | 8            | 23.14                               | 23.30                                  | 23.36                                |
| 3               | QPSK       | 1       | 14           | 23.16                               | 23.22                                  | 23.22                                |
| 3               | QPSK       | 8       | 0            | 22.43                               | 22.44                                  | 22.33                                |
| 3               | QPSK       | 8       | 4            | 22.19                               | 22.30                                  | 22.26                                |
| 3               | QPSK       | 8       | 7            | 22.34                               | 22.39                                  | 22.38                                |
| 3               | QPSK       | 15      | 0            | 22.12                               | 22.31                                  | 22.34                                |
| 3               | 16QAM      | 1       | 0            | 22.29                               | 22.39                                  | 22.39                                |
| 3               | 16QAM      | 1       | 8            | 22.38                               | 22.31                                  | 22.42                                |
| 3               | 16QAM      | 1       | 14           | 22.34                               | 22.41                                  | 22.44                                |
| 3               | 16QAM      | 8       | 0            | 21.39                               | 21.41                                  | 21.31                                |
| 3               | 16QAM      | 8       | 4            | 21.28                               | 21.35                                  | 21.44                                |
| 3               | 16QAM      | 8       | 7            | 21.22                               | 21.27                                  | 21.22                                |
| 3               | 16QAM      | 15      | 0            | 21.33                               | 21.43                                  | 21.36                                |



| LTE Band 5      |            |         |              |                                     |                                        |                                      |
|-----------------|------------|---------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |         |              | 20407                               | 20525                                  | 20643                                |
| Frequency (MHz) |            |         |              | 824.7                               | 836.5                                  | 848.3                                |
| 1.4             | QPSK       | 1       | 0            | 23.30                               | 23.34                                  | 23.33                                |
| 1.4             | QPSK       | 1       | 3            | 23.18                               | 23.22                                  | 23.13                                |
| 1.4             | QPSK       | 1       | 5            | 23.21                               | 23.21                                  | 23.23                                |
| 1.4             | QPSK       | 3       | 0            | 22.34                               | 22.36                                  | 22.33                                |
| 1.4             | QPSK       | 3       | 1            | 22.31                               | 22.32                                  | 22.35                                |
| 1.4             | QPSK       | 3       | 3            | 22.35                               | 22.28                                  | 22.23                                |
| 1.4             | QPSK       | 6       | 0            | 22.27                               | 22.43                                  | 22.30                                |
| 1.4             | 16QAM      | 1       | 0            | 22.29                               | 22.38                                  | 22.36                                |
| 1.4             | 16QAM      | 1       | 3            | 22.36                               | 22.44                                  | 22.24                                |
| 1.4             | 16QAM      | 1       | 5            | 22.35                               | 22.40                                  | 22.27                                |
| 1.4             | 16QAM      | 3       | 0            | 21.24                               | 21.35                                  | 21.37                                |
| 1.4             | 16QAM      | 3       | 1            | 21.29                               | 21.42                                  | 21.25                                |
| 1.4             | 16QAM      | 3       | 3            | 21.22                               | 21.27                                  | 21.33                                |
| 1.4             | 16QAM      | 6       | 0            | 21.30                               | 21.26                                  | 21.35                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20850                               | 21100                                  | 21350                                |
| Frequency (MHz) |            |            |              | 2510                                | 2535                                   | 2560                                 |
| 20              | QPSK       | 1          | 0            | 23.23                               | 23.36                                  | 23.22                                |
| 20              | QPSK       | 1          | 49           | 23.16                               | 23.29                                  | 23.34                                |
| 20              | QPSK       | 1          | 99           | 23.26                               | 23.24                                  | 23.25                                |
| 20              | QPSK       | 50         | 0            | 22.28                               | 22.45                                  | 22.40                                |
| 20              | QPSK       | 50         | 24           | 22.18                               | 22.44                                  | 22.20                                |
| 20              | QPSK       | 50         | 50           | 22.13                               | 22.37                                  | 22.24                                |
| 20              | QPSK       | 100        | 0            | 22.33                               | 22.40                                  | 22.39                                |
| 20              | 16QAM      | 1          | 0            | 22.37                               | 22.41                                  | 22.33                                |
| 20              | 16QAM      | 1          | 49           | 22.33                               | 22.38                                  | 22.46                                |
| 20              | 16QAM      | 1          | 99           | 22.30                               | 22.43                                  | 22.22                                |
| 20              | 16QAM      | 50         | 0            | 21.37                               | 21.36                                  | 21.32                                |
| 20              | 16QAM      | 50         | 24           | 21.18                               | 21.29                                  | 21.35                                |
| 20              | 16QAM      | 50         | 50           | 21.39                               | 21.45                                  | 21.40                                |
| 20              | 16QAM      | 100        | 0            | 21.32                               | 21.38                                  | 21.34                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20825                               | 21100                                  | 21375                                |
| Frequency (MHz) |            |            |              | 2507.5                              | 2535                                   | 2562.5                               |
| 15              | QPSK       | 1          | 0            | 23.29                               | 23.34                                  | 23.32                                |
| 15              | QPSK       | 1          | 37           | 23.22                               | 23.26                                  | 23.27                                |
| 15              | QPSK       | 1          | 74           | 23.08                               | 23.19                                  | 23.17                                |
| 15              | QPSK       | 36         | 0            | 22.33                               | 22.39                                  | 22.27                                |
| 15              | QPSK       | 36         | 20           | 22.15                               | 22.16                                  | 22.28                                |
| 15              | QPSK       | 36         | 39           | 22.03                               | 22.35                                  | 22.17                                |
| 15              | QPSK       | 75         | 0            | 22.20                               | 22.43                                  | 22.14                                |
| 15              | 16QAM      | 1          | 0            | 22.25                               | 22.42                                  | 22.31                                |
| 15              | 16QAM      | 1          | 37           | 22.20                               | 22.40                                  | 22.18                                |
| 15              | 16QAM      | 1          | 74           | 22.15                               | 22.31                                  | 22.22                                |
| 15              | 16QAM      | 36         | 0            | 21.28                               | 21.37                                  | 21.32                                |
| 15              | 16QAM      | 36         | 20           | 21.20                               | 21.39                                  | 21.27                                |
| 15              | 16QAM      | 36         | 39           | 21.47                               | 21.26                                  | 21.27                                |
| 15              | 16QAM      | 75         | 0            | 21.24                               | 21.31                                  | 21.26                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20800                               | 21100                                  | 21400                                |
| Frequency (MHz) |            |            |              | 2505                                | 2535                                   | 2565                                 |
| 10              | QPSK       | 1          | 0            | 23.21                               | 23.32                                  | 23.25                                |
| 10              | QPSK       | 1          | 25           | 23.23                               | 23.30                                  | 23.17                                |
| 10              | QPSK       | 1          | 49           | 23.25                               | 23.26                                  | 23.26                                |
| 10              | QPSK       | 25         | 0            | 22.14                               | 22.35                                  | 22.31                                |
| 10              | QPSK       | 25         | 12           | 22.16                               | 22.40                                  | 22.21                                |
| 10              | QPSK       | 25         | 25           | 22.18                               | 22.28                                  | 22.28                                |
| 10              | QPSK       | 50         | 0            | 22.21                               | 22.14                                  | 22.26                                |
| 10              | 16QAM      | 1          | 0            | 22.39                               | 22.46                                  | 22.33                                |
| 10              | 16QAM      | 1          | 25           | 22.27                               | 22.47                                  | 22.29                                |
| 10              | 16QAM      | 1          | 49           | 22.30                               | 22.38                                  | 22.16                                |
| 10              | 16QAM      | 25         | 0            | 21.33                               | 21.38                                  | 21.27                                |
| 10              | 16QAM      | 25         | 12           | 21.15                               | 21.47                                  | 21.21                                |
| 10              | 16QAM      | 25         | 25           | 21.24                               | 21.30                                  | 21.18                                |
| 10              | 16QAM      | 50         | 0            | 21.29                               | 21.29                                  | 21.24                                |



| LTE Band 7      |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 20775                               | 21100                                  | 21425                                |
| Frequency (MHz) |            |            |              | 2502.5                              | 2535                                   | 2567.5                               |
| 5               | QPSK       | 1          | 0            | 23.20                               | 23.33                                  | 23.19                                |
| 5               | QPSK       | 1          | 12           | 23.29                               | 23.25                                  | 23.27                                |
| 5               | QPSK       | 1          | 24           | 23.15                               | 23.32                                  | 23.31                                |
| 5               | QPSK       | 12         | 0            | 22.33                               | 22.29                                  | 22.25                                |
| 5               | QPSK       | 12         | 7            | 22.40                               | 22.33                                  | 22.28                                |
| 5               | QPSK       | 12         | 13           | 22.19                               | 22.33                                  | 22.21                                |
| 5               | QPSK       | 25         | 0            | 22.29                               | 22.30                                  | 22.17                                |
| 5               | 16QAM      | 1          | 0            | 22.44                               | 22.39                                  | 22.26                                |
| 5               | 16QAM      | 1          | 12           | 22.32                               | 22.41                                  | 22.46                                |
| 5               | 16QAM      | 1          | 24           | 22.28                               | 22.31                                  | 22.37                                |
| 5               | 16QAM      | 12         | 0            | 21.32                               | 21.36                                  | 21.37                                |
| 5               | 16QAM      | 12         | 7            | 21.36                               | 21.45                                  | 21.33                                |
| 5               | 16QAM      | 12         | 13           | 21.39                               | 21.34                                  | 21.33                                |
| 5               | 16QAM      | 25         | 0            | 21.19                               | 21.29                                  | 21.27                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23060                               | 23095                                  | 23130                                |
| Frequency (MHz) |            |            |              | 704                                 | 707.5                                  | 711                                  |
| 10              | QPSK       | 1          | 0            | 23.37                               | 23.39                                  | 23.28                                |
| 10              | QPSK       | 1          | 25           | 23.16                               | 23.38                                  | 23.15                                |
| 10              | QPSK       | 1          | 49           | 23.22                               | 23.26                                  | 23.18                                |
| 10              | QPSK       | 25         | 0            | 22.32                               | 22.40                                  | 22.33                                |
| 10              | QPSK       | 25         | 12           | 22.21                               | 22.25                                  | 22.23                                |
| 10              | QPSK       | 25         | 25           | 22.08                               | 22.22                                  | 22.19                                |
| 10              | QPSK       | 50         | 0            | 22.15                               | 22.23                                  | 22.25                                |
| 10              | 16QAM      | 1          | 0            | 22.37                               | 22.42                                  | 22.35                                |
| 10              | 16QAM      | 1          | 25           | 22.24                               | 22.29                                  | 22.22                                |
| 10              | 16QAM      | 1          | 49           | 22.33                               | 22.33                                  | 22.31                                |
| 10              | 16QAM      | 25         | 0            | 21.54                               | 21.38                                  | 21.34                                |
| 10              | 16QAM      | 25         | 12           | 21.39                               | 21.41                                  | 21.23                                |
| 10              | 16QAM      | 25         | 25           | 21.19                               | 21.25                                  | 21.18                                |
| 10              | 16QAM      | 50         | 0            | 21.33                               | 21.33                                  | 21.24                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23035                               | 23095                                  | 23155                                |
| Frequency (MHz) |            |            |              | 701.5                               | 707.5                                  | 713.5                                |
| 5               | QPSK       | 1          | 0            | 23.30                               | 23.37                                  | 23.23                                |
| 5               | QPSK       | 1          | 12           | 23.32                               | 23.28                                  | 23.34                                |
| 5               | QPSK       | 1          | 24           | 23.33                               | 23.29                                  | 23.19                                |
| 5               | QPSK       | 12         | 0            | 22.28                               | 22.43                                  | 22.33                                |
| 5               | QPSK       | 12         | 7            | 22.15                               | 22.26                                  | 22.27                                |
| 5               | QPSK       | 12         | 13           | 22.17                               | 22.18                                  | 22.16                                |
| 5               | QPSK       | 25         | 0            | 22.07                               | 22.29                                  | 22.26                                |
| 5               | 16QAM      | 1          | 0            | 22.42                               | 22.39                                  | 22.32                                |
| 5               | 16QAM      | 1          | 12           | 22.16                               | 22.30                                  | 22.32                                |
| 5               | 16QAM      | 1          | 24           | 22.36                               | 22.22                                  | 22.21                                |
| 5               | 16QAM      | 12         | 0            | 21.32                               | 21.38                                  | 21.38                                |
| 5               | 16QAM      | 12         | 7            | 21.21                               | 21.32                                  | 21.25                                |
| 5               | 16QAM      | 12         | 13           | 21.24                               | 21.28                                  | 21.33                                |
| 5               | 16QAM      | 25         | 0            | 21.33                               | 21.29                                  | 21.16                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23025                               | 23095                                  | 23165                                |
| Frequency (MHz) |            |            |              | 700.5                               | 707.5                                  | 714.5                                |
| 3               | QPSK       | 1          | 0            | 23.17                               | 23.35                                  | 23.29                                |
| 3               | QPSK       | 1          | 8            | 23.21                               | 23.28                                  | 23.10                                |
| 3               | QPSK       | 1          | 14           | 23.15                               | 23.18                                  | 23.13                                |
| 3               | QPSK       | 8          | 0            | 22.25                               | 22.36                                  | 22.28                                |
| 3               | QPSK       | 8          | 4            | 22.31                               | 22.33                                  | 22.09                                |
| 3               | QPSK       | 8          | 7            | 22.33                               | 22.32                                  | 22.23                                |
| 3               | QPSK       | 15         | 0            | 22.14                               | 22.29                                  | 22.38                                |
| 3               | 16QAM      | 1          | 0            | 22.45                               | 22.45                                  | 22.39                                |
| 3               | 16QAM      | 1          | 8            | 22.29                               | 22.33                                  | 22.35                                |
| 3               | 16QAM      | 1          | 14           | 22.17                               | 22.31                                  | 22.32                                |
| 3               | 16QAM      | 8          | 0            | 21.26                               | 21.42                                  | 21.33                                |
| 3               | 16QAM      | 8          | 4            | 21.15                               | 21.36                                  | 21.26                                |
| 3               | 16QAM      | 8          | 7            | 21.36                               | 21.22                                  | 21.34                                |
| 3               | 16QAM      | 15         | 0            | 21.33                               | 21.38                                  | 21.26                                |



| LTE Band 12     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23017                               | 23095                                  | 23173                                |
| Frequency (MHz) |            |            |              | 699.7                               | 707.5                                  | 715.3                                |
| 1.4             | QPSK       | 1          | 0            | 23.29                               | 23.33                                  | 23.25                                |
| 1.4             | QPSK       | 1          | 3            | 23.14                               | 23.26                                  | 23.32                                |
| 1.4             | QPSK       | 1          | 5            | 23.18                               | 23.24                                  | 23.28                                |
| 1.4             | QPSK       | 3          | 0            | 22.19                               | 22.39                                  | 22.21                                |
| 1.4             | QPSK       | 3          | 1            | 22.15                               | 22.14                                  | 22.29                                |
| 1.4             | QPSK       | 3          | 3            | 22.04                               | 22.19                                  | 22.24                                |
| 1.4             | QPSK       | 6          | 0            | 22.24                               | 22.42                                  | 22.28                                |
| 1.4             | 16QAM      | 1          | 0            | 22.33                               | 22.39                                  | 22.31                                |
| 1.4             | 16QAM      | 1          | 3            | 22.22                               | 22.31                                  | 22.26                                |
| 1.4             | 16QAM      | 1          | 5            | 22.23                               | 22.21                                  | 22.19                                |
| 1.4             | 16QAM      | 3          | 0            | 21.37                               | 21.44                                  | 21.40                                |
| 1.4             | 16QAM      | 3          | 1            | 21.40                               | 21.42                                  | 21.27                                |
| 1.4             | 16QAM      | 3          | 3            | 21.19                               | 21.40                                  | 21.19                                |
| 1.4             | 16QAM      | 6          | 0            | 21.39                               | 21.43                                  | 21.26                                |



| LTE Band 17     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23780                               | 23790                                  | 23800                                |
| Frequency (MHz) |            |            |              | 709                                 | 710                                    | 711                                  |
| 10              | QPSK       | 1          | 0            | 23.27                               | 23.35                                  | 23.34                                |
| 10              | QPSK       | 1          | 25           | 23.29                               | 23.32                                  | 23.22                                |
| 10              | QPSK       | 1          | 49           | 23.16                               | 23.28                                  | 23.19                                |
| 10              | QPSK       | 25         | 0            | 22.16                               | 22.36                                  | 22.26                                |
| 10              | QPSK       | 25         | 12           | 22.24                               | 22.26                                  | 22.25                                |
| 10              | QPSK       | 25         | 25           | 22.15                               | 22.19                                  | 22.17                                |
| 10              | QPSK       | 50         | 0            | 22.16                               | 22.25                                  | 22.38                                |
| 10              | 16QAM      | 1          | 0            | 22.19                               | 22.40                                  | 22.32                                |
| 10              | 16QAM      | 1          | 25           | 22.24                               | 22.33                                  | 22.32                                |
| 10              | 16QAM      | 1          | 49           | 22.29                               | 22.30                                  | 22.24                                |
| 10              | 16QAM      | 25         | 0            | 21.37                               | 21.37                                  | 21.28                                |
| 10              | 16QAM      | 25         | 12           | 21.35                               | 21.32                                  | 21.23                                |
| 10              | 16QAM      | 25         | 25           | 21.16                               | 21.22                                  | 21.16                                |
| 10              | 16QAM      | 50         | 0            | 21.27                               | 21.32                                  | 21.24                                |



| LTE Band 17     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 23755                               | 23790                                  | 23825                                |
| Frequency (MHz) |            |            |              | 706.5                               | 710                                    | 713.5                                |
| 5               | QPSK       | 1          | 0            | 23.31                               | 23.32                                  | 23.29                                |
| 5               | QPSK       | 1          | 12           | 23.12                               | 23.30                                  | 23.19                                |
| 5               | QPSK       | 1          | 24           | 23.25                               | 23.27                                  | 23.22                                |
| 5               | QPSK       | 12         | 0            | 22.30                               | 22.41                                  | 22.35                                |
| 5               | QPSK       | 12         | 7            | 22.29                               | 22.32                                  | 22.18                                |
| 5               | QPSK       | 12         | 13           | 22.11                               | 22.25                                  | 22.18                                |
| 5               | QPSK       | 25         | 0            | 22.20                               | 22.23                                  | 22.21                                |
| 5               | 16QAM      | 1          | 0            | 22.32                               | 22.40                                  | 22.40                                |
| 5               | 16QAM      | 1          | 12           | 22.16                               | 22.36                                  | 22.37                                |
| 5               | 16QAM      | 1          | 24           | 22.26                               | 22.35                                  | 22.26                                |
| 5               | 16QAM      | 12         | 0            | 21.30                               | 21.36                                  | 21.32                                |
| 5               | 16QAM      | 12         | 7            | 21.31                               | 21.25                                  | 21.28                                |
| 5               | 16QAM      | 12         | 13           | 21.30                               | 21.33                                  | 21.36                                |
| 5               | 16QAM      | 25         | 0            | 21.29                               | 21.27                                  | 21.26                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132072                              | 132322                                 | 132572                               |
| Frequency (MHz) |            |            |              | 1720                                | 1745                                   | 1770                                 |
| 20              | QPSK       | 1          | 0            | 23.73                               | 23.86                                  | 23.77                                |
| 20              | QPSK       | 1          | 49           | 23.70                               | 23.80                                  | 23.52                                |
| 20              | QPSK       | 1          | 99           | 23.53                               | 23.68                                  | 23.66                                |
| 20              | QPSK       | 50         | 0            | 22.63                               | 22.87                                  | 22.75                                |
| 20              | QPSK       | 50         | 24           | 22.65                               | 22.70                                  | 22.68                                |
| 20              | QPSK       | 50         | 50           | 22.70                               | 22.76                                  | 22.76                                |
| 20              | QPSK       | 100        | 0            | 22.75                               | 22.82                                  | 22.79                                |
| 20              | 16QAM      | 1          | 0            | 22.82                               | 22.91                                  | 22.70                                |
| 20              | 16QAM      | 1          | 49           | 22.91                               | 22.91                                  | 22.77                                |
| 20              | 16QAM      | 1          | 99           | 22.75                               | 22.77                                  | 22.63                                |
| 20              | 16QAM      | 50         | 0            | 21.65                               | 21.80                                  | 21.74                                |
| 20              | 16QAM      | 50         | 24           | 21.64                               | 21.74                                  | 21.60                                |
| 20              | 16QAM      | 50         | 50           | 21.81                               | 21.86                                  | 21.66                                |
| 20              | 16QAM      | 100        | 0            | 21.70                               | 21.76                                  | 21.77                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132047                              | 132322                                 | 132597                               |
| Frequency (MHz) |            |            |              | 1717.5                              | 1745                                   | 1772.5                               |
| 15              | QPSK       | 1          | 0            | 23.74                               | 23.83                                  | 23.82                                |
| 15              | QPSK       | 1          | 37           | 23.82                               | 23.69                                  | 23.82                                |
| 15              | QPSK       | 1          | 74           | 23.56                               | 23.74                                  | 23.67                                |
| 15              | QPSK       | 36         | 0            | 22.58                               | 22.85                                  | 22.68                                |
| 15              | QPSK       | 36         | 20           | 22.75                               | 22.75                                  | 22.58                                |
| 15              | QPSK       | 36         | 39           | 22.60                               | 22.65                                  | 22.60                                |
| 15              | QPSK       | 75         | 0            | 22.76                               | 22.75                                  | 22.60                                |
| 15              | 16QAM      | 1          | 0            | 22.74                               | 22.78                                  | 22.77                                |
| 15              | 16QAM      | 1          | 37           | 22.80                               | 22.88                                  | 22.86                                |
| 15              | 16QAM      | 1          | 74           | 22.73                               | 22.68                                  | 22.66                                |
| 15              | 16QAM      | 36         | 0            | 21.69                               | 21.84                                  | 21.75                                |
| 15              | 16QAM      | 36         | 20           | 21.82                               | 21.83                                  | 21.79                                |
| 15              | 16QAM      | 36         | 39           | 21.60                               | 21.63                                  | 21.62                                |
| 15              | 16QAM      | 75         | 0            | 21.82                               | 21.83                                  | 21.71                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 132022                              | 132322                                 | 132622                               |
| Frequency (MHz) |            |            |              | 1715                                | 1745                                   | 1775                                 |
| 10              | QPSK       | 1          | 0            | 23.75                               | 23.84                                  | 23.68                                |
| 10              | QPSK       | 1          | 25           | 23.59                               | 23.62                                  | 23.67                                |
| 10              | QPSK       | 1          | 49           | 23.61                               | 23.63                                  | 23.60                                |
| 10              | QPSK       | 25         | 0            | 22.75                               | 22.79                                  | 22.63                                |
| 10              | QPSK       | 25         | 12           | 22.68                               | 22.77                                  | 22.71                                |
| 10              | QPSK       | 25         | 25           | 22.58                               | 22.69                                  | 22.78                                |
| 10              | QPSK       | 50         | 0            | 22.67                               | 22.80                                  | 22.65                                |
| 10              | 16QAM      | 1          | 0            | 22.79                               | 22.81                                  | 22.71                                |
| 10              | 16QAM      | 1          | 25           | 22.73                               | 22.86                                  | 22.73                                |
| 10              | 16QAM      | 1          | 49           | 22.60                               | 22.77                                  | 22.78                                |
| 10              | 16QAM      | 25         | 0            | 21.73                               | 21.87                                  | 21.84                                |
| 10              | 16QAM      | 25         | 12           | 21.75                               | 21.66                                  | 21.64                                |
| 10              | 16QAM      | 25         | 25           | 21.61                               | 21.82                                  | 21.75                                |
| 10              | 16QAM      | 50         | 0            | 21.72                               | 21.79                                  | 21.66                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131997                              | 132322                                 | 132647                               |
| Frequency (MHz) |            |            |              | 1712.5                              | 1745                                   | 1777.5                               |
| 5               | QPSK       | 1          | 0            | 23.78                               | 23.81                                  | 23.76                                |
| 5               | QPSK       | 1          | 12           | 23.69                               | 23.81                                  | 23.53                                |
| 5               | QPSK       | 1          | 24           | 23.76                               | 23.65                                  | 23.69                                |
| 5               | QPSK       | 12         | 0            | 22.78                               | 22.77                                  | 22.76                                |
| 5               | QPSK       | 12         | 7            | 22.59                               | 22.58                                  | 22.65                                |
| 5               | QPSK       | 12         | 13           | 22.69                               | 22.54                                  | 22.65                                |
| 5               | QPSK       | 25         | 0            | 22.51                               | 22.72                                  | 22.78                                |
| 5               | 16QAM      | 1          | 0            | 22.71                               | 22.83                                  | 22.88                                |
| 5               | 16QAM      | 1          | 12           | 22.74                               | 22.69                                  | 22.67                                |
| 5               | 16QAM      | 1          | 24           | 22.59                               | 22.73                                  | 22.63                                |
| 5               | 16QAM      | 12         | 0            | 21.83                               | 21.87                                  | 21.81                                |
| 5               | 16QAM      | 12         | 7            | 21.85                               | 21.69                                  | 21.65                                |
| 5               | 16QAM      | 12         | 13           | 21.58                               | 21.87                                  | 21.87                                |
| 5               | 16QAM      | 25         | 0            | 21.81                               | 21.80                                  | 21.82                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131987                              | 132322                                 | 132657                               |
| Frequency (MHz) |            |            |              | 1711.5                              | 1745                                   | 1778.5                               |
| 3               | QPSK       | 1          | 0            | 23.83                               | 23.84                                  | 23.83                                |
| 3               | QPSK       | 1          | 8            | 23.76                               | 23.81                                  | 23.81                                |
| 3               | QPSK       | 1          | 14           | 23.70                               | 23.58                                  | 23.68                                |
| 3               | QPSK       | 8          | 0            | 22.67                               | 22.67                                  | 22.65                                |
| 3               | QPSK       | 8          | 4            | 22.68                               | 22.52                                  | 22.74                                |
| 3               | QPSK       | 8          | 7            | 22.69                               | 22.65                                  | 22.60                                |
| 3               | QPSK       | 15         | 0            | 22.68                               | 22.66                                  | 22.73                                |
| 3               | 16QAM      | 1          | 0            | 22.69                               | 22.87                                  | 22.88                                |
| 3               | 16QAM      | 1          | 8            | 22.88                               | 22.76                                  | 22.76                                |
| 3               | 16QAM      | 1          | 14           | 22.63                               | 22.71                                  | 22.70                                |
| 3               | 16QAM      | 8          | 0            | 21.72                               | 21.82                                  | 21.69                                |
| 3               | 16QAM      | 8          | 4            | 21.55                               | 21.79                                  | 21.63                                |
| 3               | 16QAM      | 8          | 7            | 21.62                               | 21.62                                  | 21.58                                |
| 3               | 16QAM      | 15         | 0            | 21.71                               | 21.78                                  | 21.80                                |



| LTE Band 66     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 131979                              | 132322                                 | 132665                               |
| Frequency (MHz) |            |            |              | 1710.7                              | 1745                                   | 1779.3                               |
| 1.4             | QPSK       | 1          | 0            | 23.64                               | 23.82                                  | 23.65                                |
| 1.4             | QPSK       | 1          | 3            | 23.55                               | 23.64                                  | 23.65                                |
| 1.4             | QPSK       | 1          | 5            | 23.65                               | 23.80                                  | 23.77                                |
| 1.4             | QPSK       | 3          | 0            | 22.76                               | 22.89                                  | 22.87                                |
| 1.4             | QPSK       | 3          | 1            | 22.53                               | 22.53                                  | 22.64                                |
| 1.4             | QPSK       | 3          | 3            | 22.59                               | 22.76                                  | 22.81                                |
| 1.4             | QPSK       | 6          | 0            | 22.74                               | 22.80                                  | 22.74                                |
| 1.4             | 16QAM      | 1          | 0            | 22.87                               | 22.82                                  | 22.71                                |
| 1.4             | 16QAM      | 1          | 3            | 22.87                               | 22.69                                  | 22.79                                |
| 1.4             | 16QAM      | 1          | 5            | 22.60                               | 22.85                                  | 22.63                                |
| 1.4             | 16QAM      | 3          | 0            | 21.89                               | 21.85                                  | 21.82                                |
| 1.4             | 16QAM      | 3          | 1            | 21.73                               | 22.02                                  | 21.85                                |
| 1.4             | 16QAM      | 3          | 3            | 21.69                               | 21.95                                  | 21.86                                |
| 1.4             | 16QAM      | 6          | 0            | 21.87                               | 21.83                                  | 21.76                                |



| LTE Band 71     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 133222                              | 133322                                 | 133372                               |
| Frequency (MHz) |            |            |              | 673                                 | 683                                    | 688                                  |
| 20              | QPSK       | 1          | 0            | 22.21                               | 22.44                                  | 22.31                                |
| 20              | QPSK       | 1          | 49           | 22.31                               | 22.35                                  | 22.28                                |
| 20              | QPSK       | 1          | 99           | 22.32                               | 22.41                                  | 22.25                                |
| 20              | QPSK       | 50         | 0            | 21.33                               | 21.42                                  | 21.32                                |
| 20              | QPSK       | 50         | 24           | 21.18                               | 21.21                                  | 21.15                                |
| 20              | QPSK       | 50         | 50           | 21.09                               | 21.26                                  | 21.21                                |
| 20              | QPSK       | 100        | 0            | 21.13                               | 21.33                                  | 21.27                                |
| 20              | 16QAM      | 1          | 0            | 21.35                               | 21.39                                  | 21.33                                |
| 20              | 16QAM      | 1          | 49           | 21.32                               | 21.37                                  | 21.36                                |
| 20              | 16QAM      | 1          | 99           | 21.19                               | 21.36                                  | 21.16                                |
| 20              | 16QAM      | 50         | 0            | 20.26                               | 20.39                                  | 20.35                                |
| 20              | 16QAM      | 50         | 24           | 20.24                               | 20.34                                  | 20.32                                |
| 20              | 16QAM      | 50         | 50           | 20.28                               | 20.31                                  | 20.16                                |
| 20              | 16QAM      | 100        | 0            | 20.17                               | 20.26                                  | 20.24                                |



| LTE Band 71     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 133197                              | 133297                                 | 133397                               |
| Frequency (MHz) |            |            |              | 670.8                               | 680.5                                  | 690.5                                |
| 15              | QPSK       | 1          | 0            | 22.35                               | 22.42                                  | 22.32                                |
| 15              | QPSK       | 1          | 37           | 22.21                               | 22.36                                  | 22.30                                |
| 15              | QPSK       | 1          | 74           | 22.19                               | 22.37                                  | 22.23                                |
| 15              | QPSK       | 36         | 0            | 21.38                               | 21.42                                  | 21.35                                |
| 15              | QPSK       | 36         | 20           | 21.09                               | 21.28                                  | 21.19                                |
| 15              | QPSK       | 36         | 39           | 21.14                               | 21.38                                  | 21.15                                |
| 15              | QPSK       | 75         | 0            | 21.13                               | 21.35                                  | 21.20                                |
| 15              | 16QAM      | 1          | 0            | 21.26                               | 21.36                                  | 21.22                                |
| 15              | 16QAM      | 1          | 37           | 21.19                               | 21.33                                  | 21.29                                |
| 15              | 16QAM      | 1          | 74           | 21.28                               | 21.38                                  | 21.33                                |
| 15              | 16QAM      | 36         | 0            | 20.25                               | 20.41                                  | 20.30                                |
| 15              | 16QAM      | 36         | 20           | 20.31                               | 20.33                                  | 20.27                                |
| 15              | 16QAM      | 36         | 39           | 20.30                               | 20.29                                  | 20.25                                |
| 15              | 16QAM      | 75         | 0            | 20.28                               | 20.35                                  | 20.23                                |



| LTE Band 71     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 133172                              | 133272                                 | 133422                               |
| Frequency (MHz) |            |            |              | 668                                 | 678                                    | 693                                  |
| 10              | QPSK       | 1          | 0            | 22.34                               | 22.41                                  | 22.28                                |
| 10              | QPSK       | 1          | 25           | 22.18                               | 22.35                                  | 22.36                                |
| 10              | QPSK       | 1          | 49           | 22.30                               | 22.34                                  | 22.17                                |
| 10              | QPSK       | 25         | 0            | 21.30                               | 21.46                                  | 21.43                                |
| 10              | QPSK       | 25         | 12           | 21.37                               | 21.44                                  | 21.10                                |
| 10              | QPSK       | 25         | 25           | 21.25                               | 21.23                                  | 21.19                                |
| 10              | QPSK       | 50         | 0            | 21.09                               | 21.35                                  | 21.34                                |
| 10              | 16QAM      | 1          | 0            | 21.33                               | 21.38                                  | 21.25                                |
| 10              | 16QAM      | 1          | 25           | 21.36                               | 21.24                                  | 21.26                                |
| 10              | 16QAM      | 1          | 49           | 21.26                               | 21.40                                  | 21.32                                |
| 10              | 16QAM      | 25         | 0            | 20.35                               | 20.39                                  | 20.33                                |
| 10              | 16QAM      | 25         | 12           | 20.43                               | 20.33                                  | 20.28                                |
| 10              | 16QAM      | 25         | 25           | 20.20                               | 20.45                                  | 20.33                                |
| 10              | 16QAM      | 50         | 0            | 20.19                               | 20.31                                  | 20.27                                |



| LTE Band 71     |            |            |              |                                     |                                        |                                      |
|-----------------|------------|------------|--------------|-------------------------------------|----------------------------------------|--------------------------------------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Average Power<br>Low<br>Ch. / Freq. | Average Power<br>Middle<br>Ch. / Freq. | Average Power<br>High<br>Ch. / Freq. |
| Channel         |            |            |              | 133147                              | 133247                                 | 133447                               |
| Frequency (MHz) |            |            |              | 665.5                               | 675.5                                  | 695.5                                |
| 5               | QPSK       | 1          | 0            | 22.17                               | 22.42                                  | 22.32                                |
| 5               | QPSK       | 1          | 12           | 22.26                               | 22.29                                  | 22.17                                |
| 5               | QPSK       | 1          | 24           | 22.19                               | 22.25                                  | 22.27                                |
| 5               | QPSK       | 12         | 0            | 21.28                               | 21.34                                  | 21.29                                |
| 5               | QPSK       | 12         | 7            | 21.22                               | 21.34                                  | 21.34                                |
| 5               | QPSK       | 12         | 13           | 21.03                               | 21.07                                  | 21.03                                |
| 5               | QPSK       | 25         | 0            | 21.35                               | 21.32                                  | 21.30                                |
| 5               | 16QAM      | 1          | 0            | 21.34                               | 21.42                                  | 21.30                                |
| 5               | 16QAM      | 1          | 12           | 21.22                               | 21.37                                  | 21.27                                |
| 5               | 16QAM      | 1          | 24           | 21.14                               | 21.31                                  | 21.23                                |
| 5               | 16QAM      | 12         | 0            | 20.22                               | 20.36                                  | 20.27                                |
| 5               | 16QAM      | 12         | 7            | 20.20                               | 20.35                                  | 20.23                                |
| 5               | 16QAM      | 12         | 13           | 20.34                               | 20.24                                  | 20.39                                |
| 5               | 16QAM      | 25         | 0            | 20.26                               | 20.39                                  | 20.30                                |

**Effective Radiated Power and Effective Isotropic Radiated Power**

| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18700             |       | 18900              |       | 19100            |       |
| Frequency (MHz) |            |         |           | 1860              |       | 1880               |       | 1900             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 20              | QPSK       | 1       | 0         | 25.46             | 0.352 | 25.52              | 0.356 | 25.50            | 0.355 |
| 20              | QPSK       | 1       | 49        | 25.41             | 0.348 | 25.47              | 0.352 | 25.39            | 0.346 |
| 20              | QPSK       | 1       | 99        | 25.42             | 0.348 | 25.43              | 0.349 | 25.45            | 0.351 |
| 20              | QPSK       | 50      | 0         | 24.44             | 0.278 | 24.50              | 0.282 | 24.48            | 0.281 |
| 20              | QPSK       | 50      | 24        | 24.38             | 0.274 | 24.41              | 0.276 | 24.37            | 0.274 |
| 20              | QPSK       | 50      | 50        | 24.30             | 0.269 | 24.34              | 0.272 | 24.45            | 0.279 |
| 20              | QPSK       | 100     | 0         | 24.36             | 0.273 | 24.42              | 0.277 | 24.39            | 0.275 |
| 20              | 16QAM      | 1       | 0         | 24.65             | 0.292 | 24.63              | 0.290 | 24.59            | 0.288 |
| 20              | 16QAM      | 1       | 49        | 24.50             | 0.282 | 24.66              | 0.292 | 24.57            | 0.286 |
| 20              | 16QAM      | 1       | 99        | 24.48             | 0.281 | 24.58              | 0.287 | 24.51            | 0.282 |
| 20              | 16QAM      | 50      | 0         | 23.54             | 0.226 | 23.66              | 0.232 | 23.58            | 0.228 |
| 20              | 16QAM      | 50      | 24        | 23.43             | 0.220 | 23.61              | 0.230 | 23.46            | 0.222 |
| 20              | 16QAM      | 50      | 50        | 23.49             | 0.223 | 23.52              | 0.225 | 23.44            | 0.221 |
| 20              | 16QAM      | 100     | 0         | 23.57             | 0.228 | 23.59              | 0.229 | 23.51            | 0.224 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18675             |       | 18900              |       | 19125            |       |
| Frequency (MHz) |            |         |           | 1857.5            |       | 1880               |       | 1902.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 15              | QPSK       | 1       | 0         | 25.45             | 0.351 | 25.49              | 0.354 | 25.47            | 0.352 |
| 15              | QPSK       | 1       | 37        | 25.29             | 0.338 | 25.32              | 0.340 | 25.38            | 0.345 |
| 15              | QPSK       | 1       | 74        | 25.40             | 0.347 | 25.41              | 0.348 | 25.35            | 0.343 |
| 15              | QPSK       | 36      | 0         | 24.49             | 0.281 | 24.57              | 0.286 | 24.52            | 0.283 |
| 15              | QPSK       | 36      | 20        | 24.33             | 0.271 | 24.39              | 0.275 | 24.37            | 0.274 |
| 15              | QPSK       | 36      | 39        | 24.35             | 0.272 | 24.30              | 0.269 | 24.28            | 0.268 |
| 15              | QPSK       | 75      | 0         | 24.34             | 0.272 | 24.39              | 0.275 | 24.49            | 0.281 |
| 15              | 16QAM      | 1       | 0         | 24.57             | 0.286 | 24.71              | 0.296 | 24.64            | 0.291 |
| 15              | 16QAM      | 1       | 37        | 24.64             | 0.291 | 24.63              | 0.290 | 24.57            | 0.286 |
| 15              | 16QAM      | 1       | 74        | 24.40             | 0.275 | 24.58              | 0.287 | 24.33            | 0.271 |
| 15              | 16QAM      | 36      | 0         | 23.45             | 0.221 | 23.64              | 0.231 | 23.68            | 0.233 |
| 15              | 16QAM      | 36      | 20        | 23.56             | 0.227 | 23.49              | 0.223 | 23.53            | 0.225 |
| 15              | 16QAM      | 36      | 39        | 23.50             | 0.224 | 23.38              | 0.218 | 23.33            | 0.215 |
| 15              | 16QAM      | 75      | 0         | 23.47             | 0.222 | 23.41              | 0.219 | 23.50            | 0.224 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18650             |       | 18900              |       | 19150            |       |
| Frequency (MHz) |            |         |           | 1855              |       | 1880               |       | 1905             |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 10              | QPSK       | 1       | 0         | 25.39             | 0.346 | 25.50              | 0.355 | 25.46            | 0.352 |
| 10              | QPSK       | 1       | 25        | 25.37             | 0.344 | 25.48              | 0.353 | 25.32            | 0.340 |
| 10              | QPSK       | 1       | 49        | 25.49             | 0.354 | 25.27              | 0.337 | 25.37            | 0.344 |
| 10              | QPSK       | 25      | 0         | 24.55             | 0.285 | 24.60              | 0.288 | 24.59            | 0.288 |
| 10              | QPSK       | 25      | 12        | 24.30             | 0.269 | 24.39              | 0.275 | 24.32            | 0.270 |
| 10              | QPSK       | 25      | 25        | 24.44             | 0.278 | 24.27              | 0.267 | 24.58            | 0.287 |
| 10              | QPSK       | 50      | 0         | 24.50             | 0.282 | 24.44              | 0.278 | 24.32            | 0.270 |
| 10              | 16QAM      | 1       | 0         | 24.55             | 0.285 | 24.48              | 0.281 | 24.44            | 0.278 |
| 10              | 16QAM      | 1       | 25        | 24.60             | 0.288 | 24.46              | 0.279 | 24.66            | 0.292 |
| 10              | 16QAM      | 1       | 49        | 24.62             | 0.290 | 24.59              | 0.288 | 24.50            | 0.282 |
| 10              | 16QAM      | 25      | 0         | 23.64             | 0.231 | 23.51              | 0.224 | 23.40            | 0.219 |
| 10              | 16QAM      | 25      | 12        | 23.24             | 0.211 | 23.40              | 0.219 | 23.39            | 0.218 |
| 10              | 16QAM      | 25      | 25        | 23.40             | 0.219 | 23.38              | 0.218 | 23.57            | 0.228 |
| 10              | 16QAM      | 50      | 0         | 23.51             | 0.224 | 23.53              | 0.225 | 23.32            | 0.215 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18625             |       | 18900              |       | 19175            |       |
| Frequency (MHz) |            |         |           | 1852.5            |       | 1880               |       | 1907.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 5               | QPSK       | 1       | 0         | 25.36             | 0.344 | 25.48              | 0.353 | 25.40            | 0.347 |
| 5               | QPSK       | 1       | 12        | 25.42             | 0.348 | 25.28              | 0.337 | 25.46            | 0.352 |
| 5               | QPSK       | 1       | 24        | 25.37             | 0.344 | 25.44              | 0.350 | 25.39            | 0.346 |
| 5               | QPSK       | 12      | 0         | 24.32             | 0.270 | 24.31              | 0.270 | 24.51            | 0.282 |
| 5               | QPSK       | 12      | 7         | 24.45             | 0.279 | 24.34              | 0.272 | 24.32            | 0.270 |
| 5               | QPSK       | 12      | 13        | 24.42             | 0.277 | 24.41              | 0.276 | 24.33            | 0.271 |
| 5               | QPSK       | 25      | 0         | 24.45             | 0.279 | 24.28              | 0.268 | 24.21            | 0.264 |
| 5               | 16QAM      | 1       | 0         | 24.58             | 0.287 | 24.60              | 0.288 | 24.61            | 0.289 |
| 5               | 16QAM      | 1       | 12        | 24.37             | 0.274 | 24.54              | 0.284 | 24.60            | 0.288 |
| 5               | 16QAM      | 1       | 24        | 24.28             | 0.268 | 24.56              | 0.286 | 24.54            | 0.284 |
| 5               | 16QAM      | 12      | 0         | 23.61             | 0.230 | 23.70              | 0.234 | 23.66            | 0.232 |
| 5               | 16QAM      | 12      | 7         | 23.46             | 0.222 | 23.71              | 0.235 | 23.32            | 0.215 |
| 5               | 16QAM      | 12      | 13        | 23.34             | 0.216 | 23.58              | 0.228 | 23.54            | 0.226 |
| 5               | 16QAM      | 25      | 0         | 23.45             | 0.221 | 23.67              | 0.233 | 23.53            | 0.225 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18615             |       | 18900              |       | 19185            |       |
| Frequency (MHz) |            |         |           | 1851.5            |       | 1880               |       | 1908.5           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 3               | QPSK       | 1       | 0         | 25.40             | 0.347 | 25.49              | 0.354 | 25.35            | 0.343 |
| 3               | QPSK       | 1       | 8         | 25.34             | 0.342 | 25.45              | 0.351 | 25.36            | 0.344 |
| 3               | QPSK       | 1       | 14        | 25.43             | 0.349 | 25.39              | 0.346 | 25.34            | 0.342 |
| 3               | QPSK       | 8       | 0         | 24.37             | 0.274 | 24.49              | 0.281 | 24.30            | 0.269 |
| 3               | QPSK       | 8       | 4         | 24.20             | 0.263 | 24.22              | 0.264 | 24.24            | 0.265 |
| 3               | QPSK       | 8       | 7         | 24.24             | 0.265 | 24.42              | 0.277 | 24.39            | 0.275 |
| 3               | QPSK       | 15      | 0         | 24.27             | 0.267 | 24.35              | 0.272 | 24.39            | 0.275 |
| 3               | 16QAM      | 1       | 0         | 24.72             | 0.296 | 24.65              | 0.292 | 24.46            | 0.279 |
| 3               | 16QAM      | 1       | 8         | 24.63             | 0.290 | 24.70              | 0.295 | 24.52            | 0.283 |
| 3               | 16QAM      | 1       | 14        | 24.52             | 0.283 | 24.46              | 0.279 | 24.46            | 0.279 |
| 3               | 16QAM      | 8       | 0         | 23.48             | 0.223 | 23.52              | 0.225 | 23.41            | 0.219 |
| 3               | 16QAM      | 8       | 4         | 23.35             | 0.216 | 23.66              | 0.232 | 23.57            | 0.228 |
| 3               | 16QAM      | 8       | 7         | 23.33             | 0.215 | 23.63              | 0.231 | 23.43            | 0.220 |
| 3               | 16QAM      | 15      | 0         | 23.47             | 0.222 | 23.56              | 0.227 | 23.46            | 0.222 |



| LTE Band 2      |            |         |           | Measured E.I.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-------------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq.   |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 18607             |       | 18900              |       | 19193            |       |
| Frequency (MHz) |            |         |           | 1850.7            |       | 1880               |       | 1909.3           |       |
|                 |            |         |           | dBm               | W     | dBm                | W     | dBm              | W     |
| 1.4             | QPSK       | 1       | 0         | 25.41             | 0.348 | 25.47              | 0.352 | 25.44            | 0.350 |
| 1.4             | QPSK       | 1       | 3         | 25.40             | 0.347 | 25.40              | 0.347 | 25.43            | 0.349 |
| 1.4             | QPSK       | 1       | 5         | 25.27             | 0.337 | 25.44              | 0.350 | 25.42            | 0.348 |
| 1.4             | QPSK       | 3       | 0         | 24.31             | 0.270 | 24.39              | 0.275 | 24.56            | 0.286 |
| 1.4             | QPSK       | 3       | 1         | 24.45             | 0.279 | 24.37              | 0.274 | 24.25            | 0.266 |
| 1.4             | QPSK       | 3       | 3         | 24.27             | 0.267 | 24.46              | 0.279 | 24.31            | 0.270 |
| 1.4             | QPSK       | 6       | 0         | 24.36             | 0.273 | 24.31              | 0.270 | 24.25            | 0.266 |
| 1.4             | 16QAM      | 1       | 0         | 24.56             | 0.286 | 24.53              | 0.284 | 24.64            | 0.291 |
| 1.4             | 16QAM      | 1       | 3         | 24.52             | 0.283 | 24.64              | 0.291 | 24.66            | 0.292 |
| 1.4             | 16QAM      | 1       | 5         | 24.33             | 0.271 | 24.52              | 0.283 | 24.36            | 0.273 |
| 1.4             | 16QAM      | 3       | 0         | 23.67             | 0.233 | 23.63              | 0.231 | 23.73            | 0.236 |
| 1.4             | 16QAM      | 3       | 1         | 23.47             | 0.222 | 23.70              | 0.234 | 23.33            | 0.215 |
| 1.4             | 16QAM      | 3       | 3         | 23.61             | 0.230 | 23.57              | 0.228 | 23.44            | 0.221 |
| 1.4             | 16QAM      | 6       | 0         | 23.49             | 0.223 | 23.65              | 0.232 | 23.38            | 0.218 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20050              |       | 20175                 |       | 20300               |       |
| Frequency (MHz) |            |            |              | 1720               |       | 1732.5                |       | 1745                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 25.09              | 0.323 | 25.14                 | 0.327 | 25.05               | 0.320 |
| 20              | QPSK       | 1          | 49           | 25.04              | 0.319 | 25.04                 | 0.319 | 24.90               | 0.309 |
| 20              | QPSK       | 1          | 99           | 25.00              | 0.316 | 25.05                 | 0.320 | 25.04               | 0.319 |
| 20              | QPSK       | 50         | 0            | 24.18              | 0.262 | 24.25                 | 0.266 | 24.22               | 0.264 |
| 20              | QPSK       | 50         | 24           | 24.06              | 0.255 | 24.13                 | 0.259 | 24.12               | 0.258 |
| 20              | QPSK       | 50         | 50           | 24.10              | 0.257 | 24.16                 | 0.261 | 24.00               | 0.251 |
| 20              | QPSK       | 100        | 0            | 24.06              | 0.255 | 24.09                 | 0.256 | 24.03               | 0.253 |
| 20              | 16QAM      | 1          | 0            | 24.18              | 0.262 | 24.30                 | 0.269 | 24.14               | 0.259 |
| 20              | 16QAM      | 1          | 49           | 24.24              | 0.265 | 24.17                 | 0.261 | 24.24               | 0.265 |
| 20              | 16QAM      | 1          | 99           | 24.07              | 0.255 | 24.28                 | 0.268 | 24.06               | 0.255 |
| 20              | 16QAM      | 50         | 0            | 22.94              | 0.197 | 23.13                 | 0.206 | 23.07               | 0.203 |
| 20              | 16QAM      | 50         | 24           | 22.93              | 0.196 | 23.06                 | 0.202 | 23.00               | 0.200 |
| 20              | 16QAM      | 50         | 50           | 22.97              | 0.198 | 23.08                 | 0.203 | 23.11               | 0.205 |
| 20              | 16QAM      | 100        | 0            | 23.18              | 0.208 | 23.15                 | 0.207 | 23.10               | 0.204 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20025              |       | 20175                 |       | 20325               |       |
| Frequency (MHz) |            |            |              | 1717.5             |       | 1732.5                |       | 1747.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 25.02              | 0.318 | 25.11                 | 0.324 | 25.04               | 0.319 |
| 15              | QPSK       | 1          | 37           | 24.97              | 0.314 | 25.02                 | 0.318 | 25.08               | 0.322 |
| 15              | QPSK       | 1          | 74           | 25.03              | 0.318 | 25.09                 | 0.323 | 25.05               | 0.320 |
| 15              | QPSK       | 36         | 0            | 24.13              | 0.259 | 24.28                 | 0.268 | 24.07               | 0.255 |
| 15              | QPSK       | 36         | 20           | 24.12              | 0.258 | 24.04                 | 0.254 | 23.98               | 0.250 |
| 15              | QPSK       | 36         | 39           | 24.08              | 0.256 | 24.02                 | 0.252 | 24.05               | 0.254 |
| 15              | QPSK       | 75         | 0            | 24.09              | 0.256 | 24.00                 | 0.251 | 24.12               | 0.258 |
| 15              | 16QAM      | 1          | 0            | 24.08              | 0.256 | 24.24                 | 0.265 | 24.14               | 0.259 |
| 15              | 16QAM      | 1          | 37           | 24.00              | 0.251 | 24.15                 | 0.260 | 24.24               | 0.265 |
| 15              | 16QAM      | 1          | 74           | 24.10              | 0.257 | 24.16                 | 0.261 | 24.23               | 0.265 |
| 15              | 16QAM      | 36         | 0            | 23.12              | 0.205 | 23.22                 | 0.210 | 23.14               | 0.206 |
| 15              | 16QAM      | 36         | 20           | 23.11              | 0.205 | 23.21                 | 0.209 | 23.05               | 0.202 |
| 15              | 16QAM      | 36         | 39           | 23.07              | 0.203 | 23.15                 | 0.207 | 23.02               | 0.200 |
| 15              | 16QAM      | 75         | 0            | 23.17              | 0.207 | 23.21                 | 0.209 | 23.02               | 0.200 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20000              |       | 20175                 |       | 20350               |       |
| Frequency (MHz) |            |            |              | 1715               |       | 1732.5                |       | 1750                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 25.07              | 0.321 | 25.12                 | 0.325 | 25.08               | 0.322 |
| 10              | QPSK       | 1          | 25           | 25.08              | 0.322 | 25.06                 | 0.321 | 25.06               | 0.321 |
| 10              | QPSK       | 1          | 49           | 25.02              | 0.318 | 25.00                 | 0.316 | 25.09               | 0.323 |
| 10              | QPSK       | 25         | 0            | 24.07              | 0.255 | 24.25                 | 0.266 | 24.06               | 0.255 |
| 10              | QPSK       | 25         | 12           | 24.01              | 0.252 | 24.12                 | 0.258 | 24.09               | 0.256 |
| 10              | QPSK       | 25         | 25           | 24.08              | 0.256 | 24.11                 | 0.258 | 24.00               | 0.251 |
| 10              | QPSK       | 50         | 0            | 24.12              | 0.258 | 24.00                 | 0.251 | 24.04               | 0.254 |
| 10              | 16QAM      | 1          | 0            | 24.33              | 0.271 | 24.30                 | 0.269 | 24.26               | 0.267 |
| 10              | 16QAM      | 1          | 25           | 23.96              | 0.249 | 24.08                 | 0.256 | 24.01               | 0.252 |
| 10              | 16QAM      | 1          | 49           | 24.13              | 0.259 | 24.09                 | 0.256 | 24.17               | 0.261 |
| 10              | 16QAM      | 25         | 0            | 23.01              | 0.200 | 23.24                 | 0.211 | 23.08               | 0.203 |
| 10              | 16QAM      | 25         | 12           | 23.06              | 0.202 | 23.19                 | 0.208 | 23.13               | 0.206 |
| 10              | 16QAM      | 25         | 25           | 22.97              | 0.198 | 23.21                 | 0.209 | 23.10               | 0.204 |
| 10              | 16QAM      | 50         | 0            | 23.05              | 0.202 | 23.23                 | 0.210 | 23.09               | 0.204 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19975              |       | 20175                 |       | 20375               |       |
| Frequency (MHz) |            |            |              | 1712.5             |       | 1732.5                |       | 1752.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 25.04              | 0.319 | 25.10                 | 0.324 | 25.02               | 0.318 |
| 5               | QPSK       | 1          | 12           | 24.99              | 0.316 | 25.08                 | 0.322 | 25.05               | 0.320 |
| 5               | QPSK       | 1          | 24           | 25.01              | 0.317 | 25.02                 | 0.318 | 25.09               | 0.323 |
| 5               | QPSK       | 12         | 0            | 24.06              | 0.255 | 24.18                 | 0.262 | 24.09               | 0.256 |
| 5               | QPSK       | 12         | 7            | 24.00              | 0.251 | 23.95                 | 0.248 | 24.00               | 0.251 |
| 5               | QPSK       | 12         | 13           | 23.97              | 0.249 | 24.03                 | 0.253 | 24.00               | 0.251 |
| 5               | QPSK       | 25         | 0            | 24.03              | 0.253 | 24.02                 | 0.252 | 24.06               | 0.255 |
| 5               | 16QAM      | 1          | 0            | 24.18              | 0.262 | 24.30                 | 0.269 | 24.19               | 0.262 |
| 5               | 16QAM      | 1          | 12           | 24.09              | 0.256 | 24.09                 | 0.256 | 24.03               | 0.253 |
| 5               | 16QAM      | 1          | 24           | 24.12              | 0.258 | 24.32                 | 0.270 | 24.02               | 0.252 |
| 5               | 16QAM      | 12         | 0            | 22.98              | 0.199 | 23.25                 | 0.211 | 23.15               | 0.207 |
| 5               | 16QAM      | 12         | 7            | 23.12              | 0.205 | 23.04                 | 0.201 | 22.91               | 0.195 |
| 5               | 16QAM      | 12         | 13           | 23.17              | 0.207 | 22.96                 | 0.198 | 23.04               | 0.201 |
| 5               | 16QAM      | 25         | 0            | 23.15              | 0.207 | 23.20                 | 0.209 | 23.24               | 0.211 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19965              |       | 20175                 |       | 20385               |       |
| Frequency (MHz) |            |            |              | 1711.5             |       | 1732.5                |       | 1753.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1          | 0            | 25.07              | 0.321 | 25.12                 | 0.325 | 25.09               | 0.323 |
| 3               | QPSK       | 1          | 8            | 25.07              | 0.321 | 25.11                 | 0.324 | 25.07               | 0.321 |
| 3               | QPSK       | 1          | 14           | 25.04              | 0.319 | 25.02                 | 0.318 | 25.06               | 0.321 |
| 3               | QPSK       | 8          | 0            | 24.17              | 0.261 | 24.16                 | 0.261 | 24.06               | 0.255 |
| 3               | QPSK       | 8          | 4            | 24.00              | 0.251 | 24.07                 | 0.255 | 24.03               | 0.253 |
| 3               | QPSK       | 8          | 7            | 24.12              | 0.258 | 24.04                 | 0.254 | 24.12               | 0.258 |
| 3               | QPSK       | 15         | 0            | 24.12              | 0.258 | 24.03                 | 0.253 | 24.14               | 0.259 |
| 3               | 16QAM      | 1          | 0            | 24.05              | 0.254 | 24.36                 | 0.273 | 24.10               | 0.257 |
| 3               | 16QAM      | 1          | 8            | 23.98              | 0.250 | 24.08                 | 0.256 | 24.03               | 0.253 |
| 3               | 16QAM      | 1          | 14           | 24.04              | 0.254 | 23.98                 | 0.250 | 24.05               | 0.254 |
| 3               | 16QAM      | 8          | 0            | 22.99              | 0.199 | 23.29                 | 0.213 | 23.02               | 0.200 |
| 3               | 16QAM      | 8          | 4            | 23.08              | 0.203 | 23.03                 | 0.201 | 22.99               | 0.199 |
| 3               | 16QAM      | 8          | 7            | 23.10              | 0.204 | 23.17                 | 0.207 | 23.03               | 0.201 |
| 3               | 16QAM      | 15         | 0            | 23.02              | 0.200 | 23.09                 | 0.204 | 23.22               | 0.210 |



| LTE Band 4      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 19957              |       | 20175                 |       | 20393               |       |
| Frequency (MHz) |            |            |              | 1710.7             |       | 1732.5                |       | 1754.3              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 1.4             | QPSK       | 1          | 0            | 25.07              | 0.321 | 25.11                 | 0.324 | 25.00               | 0.316 |
| 1.4             | QPSK       | 1          | 3            | 25.00              | 0.316 | 25.02                 | 0.318 | 24.95               | 0.313 |
| 1.4             | QPSK       | 1          | 5            | 24.95              | 0.313 | 25.03                 | 0.318 | 25.01               | 0.317 |
| 1.4             | QPSK       | 3          | 0            | 24.11              | 0.258 | 24.15                 | 0.260 | 24.07               | 0.255 |
| 1.4             | QPSK       | 3          | 1            | 24.06              | 0.255 | 24.06                 | 0.255 | 24.03               | 0.253 |
| 1.4             | QPSK       | 3          | 3            | 23.99              | 0.251 | 24.07                 | 0.255 | 24.08               | 0.256 |
| 1.4             | QPSK       | 6          | 0            | 23.83              | 0.242 | 24.13                 | 0.259 | 23.81               | 0.240 |
| 1.4             | 16QAM      | 1          | 0            | 24.31              | 0.270 | 24.37                 | 0.274 | 24.13               | 0.259 |
| 1.4             | 16QAM      | 1          | 3            | 24.09              | 0.256 | 24.40                 | 0.275 | 24.03               | 0.253 |
| 1.4             | 16QAM      | 1          | 5            | 24.09              | 0.256 | 24.17                 | 0.261 | 24.15               | 0.260 |
| 1.4             | 16QAM      | 3          | 0            | 23.04              | 0.201 | 23.34                 | 0.216 | 23.01               | 0.200 |
| 1.4             | 16QAM      | 3          | 1            | 22.99              | 0.199 | 23.17                 | 0.207 | 23.05               | 0.202 |
| 1.4             | 16QAM      | 3          | 3            | 23.01              | 0.200 | 23.10                 | 0.204 | 23.02               | 0.200 |
| 1.4             | 16QAM      | 6          | 0            | 23.02              | 0.200 | 23.11                 | 0.205 | 23.15               | 0.207 |



| LTE Band 5      |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 20450              |       | 20525                 |       | 20600               |       |
| Frequency (MHz) |            |         |              | 829                |       | 836.5                 |       | 844                 |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1       | 0            | 21.97              | 0.157 | 22.13                 | 0.163 | 22.07               | 0.161 |
| 10              | QPSK       | 1       | 25           | 21.87              | 0.154 | 21.97                 | 0.157 | 22.06               | 0.161 |
| 10              | QPSK       | 1       | 49           | 22.03              | 0.160 | 22.00                 | 0.158 | 22.01               | 0.159 |
| 10              | QPSK       | 25      | 0            | 21.03              | 0.127 | 21.15                 | 0.130 | 20.96               | 0.125 |
| 10              | QPSK       | 25      | 12           | 21.10              | 0.129 | 20.93                 | 0.124 | 21.13               | 0.130 |
| 10              | QPSK       | 25      | 25           | 21.08              | 0.128 | 20.93                 | 0.124 | 20.99               | 0.126 |
| 10              | QPSK       | 50      | 0            | 20.92              | 0.124 | 20.94                 | 0.124 | 21.09               | 0.129 |
| 10              | 16QAM      | 1       | 0            | 21.06              | 0.128 | 21.07                 | 0.128 | 21.04               | 0.127 |
| 10              | 16QAM      | 1       | 25           | 21.02              | 0.126 | 20.99                 | 0.126 | 21.05               | 0.127 |
| 10              | 16QAM      | 1       | 49           | 21.12              | 0.129 | 21.10                 | 0.129 | 20.97               | 0.125 |
| 10              | 16QAM      | 25      | 0            | 20.17              | 0.104 | 20.13                 | 0.103 | 20.14               | 0.103 |
| 10              | 16QAM      | 25      | 12           | 20.10              | 0.102 | 20.19                 | 0.104 | 19.95               | 0.099 |
| 10              | 16QAM      | 25      | 25           | 19.96              | 0.099 | 20.06                 | 0.101 | 20.14               | 0.103 |
| 10              | 16QAM      | 50      | 0            | 20.17              | 0.104 | 20.17                 | 0.104 | 20.18               | 0.104 |



| LTE Band 5      |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 20425              |       | 20525                 |       | 20625               |       |
| Frequency (MHz) |            |         |              | 826.5              |       | 836.5                 |       | 846.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1       | 0            | 22.09              | 0.162 | 22.10                 | 0.162 | 22.04               | 0.160 |
| 5               | QPSK       | 1       | 12           | 21.96              | 0.157 | 22.00                 | 0.158 | 21.88               | 0.154 |
| 5               | QPSK       | 1       | 24           | 21.88              | 0.154 | 21.99                 | 0.158 | 21.93               | 0.156 |
| 5               | QPSK       | 12      | 0            | 21.12              | 0.129 | 21.14                 | 0.130 | 20.95               | 0.124 |
| 5               | QPSK       | 12      | 7            | 20.90              | 0.123 | 21.06                 | 0.128 | 20.99               | 0.126 |
| 5               | QPSK       | 12      | 13           | 20.96              | 0.125 | 20.78                 | 0.120 | 21.04               | 0.127 |
| 5               | QPSK       | 25      | 0            | 21.00              | 0.126 | 20.90                 | 0.123 | 20.95               | 0.124 |
| 5               | 16QAM      | 1       | 0            | 20.96              | 0.125 | 21.15                 | 0.130 | 20.94               | 0.124 |
| 5               | 16QAM      | 1       | 12           | 21.09              | 0.129 | 21.00                 | 0.126 | 21.07               | 0.128 |
| 5               | 16QAM      | 1       | 24           | 21.11              | 0.129 | 21.09                 | 0.129 | 21.06               | 0.128 |
| 5               | 16QAM      | 12      | 0            | 20.16              | 0.104 | 20.14                 | 0.103 | 20.06               | 0.101 |
| 5               | 16QAM      | 12      | 7            | 19.95              | 0.099 | 20.07                 | 0.102 | 20.13               | 0.103 |
| 5               | 16QAM      | 12      | 13           | 19.93              | 0.098 | 19.96                 | 0.099 | 20.15               | 0.104 |
| 5               | 16QAM      | 25      | 0            | 20.10              | 0.102 | 20.12                 | 0.103 | 20.16               | 0.104 |



| LTE Band 5      |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 20415              |       | 20525                 |       | 20635               |       |
| Frequency (MHz) |            |         |              | 825.5              |       | 836.5                 |       | 847.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1       | 0            | 21.95              | 0.157 | 22.11                 | 0.163 | 21.97               | 0.157 |
| 3               | QPSK       | 1       | 8            | 21.88              | 0.154 | 22.04                 | 0.160 | 22.10               | 0.162 |
| 3               | QPSK       | 1       | 14           | 21.90              | 0.155 | 21.96                 | 0.157 | 21.96               | 0.157 |
| 3               | QPSK       | 8       | 0            | 21.17              | 0.131 | 21.18                 | 0.131 | 21.07               | 0.128 |
| 3               | QPSK       | 8       | 4            | 20.93              | 0.124 | 21.04                 | 0.127 | 21.00               | 0.126 |
| 3               | QPSK       | 8       | 7            | 21.08              | 0.128 | 21.13                 | 0.130 | 21.12               | 0.129 |
| 3               | QPSK       | 15      | 0            | 20.86              | 0.122 | 21.05                 | 0.127 | 21.08               | 0.128 |
| 3               | 16QAM      | 1       | 0            | 21.03              | 0.127 | 21.13                 | 0.130 | 21.13               | 0.130 |
| 3               | 16QAM      | 1       | 8            | 21.12              | 0.129 | 21.05                 | 0.127 | 21.16               | 0.131 |
| 3               | 16QAM      | 1       | 14           | 21.08              | 0.128 | 21.15                 | 0.130 | 21.18               | 0.131 |
| 3               | 16QAM      | 8       | 0            | 20.13              | 0.103 | 20.15                 | 0.104 | 20.05               | 0.101 |
| 3               | 16QAM      | 8       | 4            | 20.02              | 0.100 | 20.09                 | 0.102 | 20.18               | 0.104 |
| 3               | 16QAM      | 8       | 7            | 19.96              | 0.099 | 20.01                 | 0.100 | 19.96               | 0.099 |
| 3               | 16QAM      | 15      | 0            | 20.07              | 0.102 | 20.17                 | 0.104 | 20.10               | 0.102 |



| LTE Band 5      |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 20407              |       | 20525                 |       | 20643               |       |
| Frequency (MHz) |            |         |              | 824.7              |       | 836.5                 |       | 848.3               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 1.4             | QPSK       | 1       | 0            | 22.04              | 0.160 | 22.08                 | 0.161 | 22.07               | 0.161 |
| 1.4             | QPSK       | 1       | 3            | 21.92              | 0.156 | 21.96                 | 0.157 | 21.87               | 0.154 |
| 1.4             | QPSK       | 1       | 5            | 21.95              | 0.157 | 21.95                 | 0.157 | 21.97               | 0.157 |
| 1.4             | QPSK       | 3       | 0            | 21.08              | 0.128 | 21.10                 | 0.129 | 21.07               | 0.128 |
| 1.4             | QPSK       | 3       | 1            | 21.05              | 0.127 | 21.06                 | 0.128 | 21.09               | 0.129 |
| 1.4             | QPSK       | 3       | 3            | 21.09              | 0.129 | 21.02                 | 0.126 | 20.97               | 0.125 |
| 1.4             | QPSK       | 6       | 0            | 21.01              | 0.126 | 21.17                 | 0.131 | 21.04               | 0.127 |
| 1.4             | 16QAM      | 1       | 0            | 21.03              | 0.127 | 21.12                 | 0.129 | 21.10               | 0.129 |
| 1.4             | 16QAM      | 1       | 3            | 21.10              | 0.129 | 21.18                 | 0.131 | 20.98               | 0.125 |
| 1.4             | 16QAM      | 1       | 5            | 21.09              | 0.129 | 21.14                 | 0.130 | 21.01               | 0.126 |
| 1.4             | 16QAM      | 3       | 0            | 19.98              | 0.100 | 20.09                 | 0.102 | 20.11               | 0.103 |
| 1.4             | 16QAM      | 3       | 1            | 20.03              | 0.101 | 20.16                 | 0.104 | 19.99               | 0.100 |
| 1.4             | 16QAM      | 3       | 3            | 19.96              | 0.099 | 20.01                 | 0.100 | 20.07               | 0.102 |
| 1.4             | 16QAM      | 6       | 0            | 20.04              | 0.101 | 20.00                 | 0.100 | 20.09               | 0.102 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20850              |       | 21100                 |       | 21350               |       |
| Frequency (MHz) |            |            |              | 2510               |       | 2535                  |       | 2560                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 23.54              | 0.226 | 23.67                 | 0.233 | 23.53               | 0.225 |
| 20              | QPSK       | 1          | 49           | 23.47              | 0.222 | 23.60                 | 0.229 | 23.65               | 0.232 |
| 20              | QPSK       | 1          | 99           | 23.57              | 0.228 | 23.55                 | 0.226 | 23.56               | 0.227 |
| 20              | QPSK       | 50         | 0            | 22.59              | 0.182 | 22.76                 | 0.189 | 22.71               | 0.187 |
| 20              | QPSK       | 50         | 24           | 22.49              | 0.177 | 22.75                 | 0.188 | 22.51               | 0.178 |
| 20              | QPSK       | 50         | 50           | 22.44              | 0.175 | 22.68                 | 0.185 | 22.55               | 0.180 |
| 20              | QPSK       | 100        | 0            | 22.64              | 0.184 | 22.71                 | 0.187 | 22.70               | 0.186 |
| 20              | 16QAM      | 1          | 0            | 22.68              | 0.185 | 22.72                 | 0.187 | 22.64               | 0.184 |
| 20              | 16QAM      | 1          | 49           | 22.64              | 0.184 | 22.69                 | 0.186 | 22.77               | 0.189 |
| 20              | 16QAM      | 1          | 99           | 22.61              | 0.182 | 22.74                 | 0.188 | 22.53               | 0.179 |
| 20              | 16QAM      | 50         | 0            | 21.68              | 0.147 | 21.67                 | 0.147 | 21.63               | 0.146 |
| 20              | 16QAM      | 50         | 24           | 21.49              | 0.141 | 21.60                 | 0.145 | 21.66               | 0.147 |
| 20              | 16QAM      | 50         | 50           | 21.70              | 0.148 | 21.76                 | 0.150 | 21.71               | 0.148 |
| 20              | 16QAM      | 100        | 0            | 21.63              | 0.146 | 21.69                 | 0.148 | 21.65               | 0.146 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20825              |       | 21100                 |       | 21375               |       |
| Frequency (MHz) |            |            |              | 2507.5             |       | 2535                  |       | 2562.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 23.60              | 0.229 | 23.65                 | 0.232 | 23.63               | 0.231 |
| 15              | QPSK       | 1          | 37           | 23.53              | 0.225 | 23.57                 | 0.228 | 23.58               | 0.228 |
| 15              | QPSK       | 1          | 74           | 23.39              | 0.218 | 23.50                 | 0.224 | 23.48               | 0.223 |
| 15              | QPSK       | 36         | 0            | 22.64              | 0.184 | 22.70                 | 0.186 | 22.58               | 0.181 |
| 15              | QPSK       | 36         | 20           | 22.46              | 0.176 | 22.47                 | 0.177 | 22.59               | 0.182 |
| 15              | QPSK       | 36         | 39           | 22.34              | 0.171 | 22.66                 | 0.185 | 22.48               | 0.177 |
| 15              | QPSK       | 75         | 0            | 22.51              | 0.178 | 22.74                 | 0.188 | 22.45               | 0.176 |
| 15              | 16QAM      | 1          | 0            | 22.56              | 0.180 | 22.73                 | 0.187 | 22.62               | 0.183 |
| 15              | 16QAM      | 1          | 37           | 22.51              | 0.178 | 22.71                 | 0.187 | 22.49               | 0.177 |
| 15              | 16QAM      | 1          | 74           | 22.46              | 0.176 | 22.62                 | 0.183 | 22.53               | 0.179 |
| 15              | 16QAM      | 36         | 0            | 21.59              | 0.144 | 21.68                 | 0.147 | 21.63               | 0.146 |
| 15              | 16QAM      | 36         | 20           | 21.51              | 0.142 | 21.70                 | 0.148 | 21.58               | 0.144 |
| 15              | 16QAM      | 36         | 39           | 21.78              | 0.151 | 21.57                 | 0.144 | 21.58               | 0.144 |
| 15              | 16QAM      | 75         | 0            | 21.55              | 0.143 | 21.62                 | 0.145 | 21.57               | 0.144 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20800              |       | 21100                 |       | 21400               |       |
| Frequency (MHz) |            |            |              | 2505               |       | 2535                  |       | 2565                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 23.52              | 0.225 | 23.63                 | 0.231 | 23.56               | 0.227 |
| 10              | QPSK       | 1          | 25           | 23.54              | 0.226 | 23.61                 | 0.230 | 23.48               | 0.223 |
| 10              | QPSK       | 1          | 49           | 23.56              | 0.227 | 23.57                 | 0.228 | 23.57               | 0.228 |
| 10              | QPSK       | 25         | 0            | 22.45              | 0.176 | 22.66                 | 0.185 | 22.62               | 0.183 |
| 10              | QPSK       | 25         | 12           | 22.47              | 0.177 | 22.71                 | 0.187 | 22.52               | 0.179 |
| 10              | QPSK       | 25         | 25           | 22.49              | 0.177 | 22.59                 | 0.182 | 22.59               | 0.182 |
| 10              | QPSK       | 50         | 0            | 22.52              | 0.179 | 22.45                 | 0.176 | 22.57               | 0.181 |
| 10              | 16QAM      | 1          | 0            | 22.70              | 0.186 | 22.77                 | 0.189 | 22.64               | 0.184 |
| 10              | 16QAM      | 1          | 25           | 22.58              | 0.181 | 22.78                 | 0.190 | 22.60               | 0.182 |
| 10              | 16QAM      | 1          | 49           | 22.61              | 0.182 | 22.69                 | 0.186 | 22.47               | 0.177 |
| 10              | 16QAM      | 25         | 0            | 21.64              | 0.146 | 21.69                 | 0.148 | 21.58               | 0.144 |
| 10              | 16QAM      | 25         | 12           | 21.46              | 0.140 | 21.78                 | 0.151 | 21.52               | 0.142 |
| 10              | 16QAM      | 25         | 25           | 21.55              | 0.143 | 21.61                 | 0.145 | 21.49               | 0.141 |
| 10              | 16QAM      | 50         | 0            | 21.60              | 0.145 | 21.60                 | 0.145 | 21.55               | 0.143 |



| LTE Band 7      |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 20775              |       | 21100                 |       | 21425               |       |
| Frequency (MHz) |            |            |              | 2502.5             |       | 2535                  |       | 2567.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 23.51              | 0.224 | 23.64                 | 0.231 | 23.50               | 0.224 |
| 5               | QPSK       | 1          | 12           | 23.60              | 0.229 | 23.56                 | 0.227 | 23.58               | 0.228 |
| 5               | QPSK       | 1          | 24           | 23.46              | 0.222 | 23.63                 | 0.231 | 23.62               | 0.230 |
| 5               | QPSK       | 12         | 0            | 22.64              | 0.184 | 22.60                 | 0.182 | 22.56               | 0.180 |
| 5               | QPSK       | 12         | 7            | 22.71              | 0.187 | 22.64                 | 0.184 | 22.59               | 0.182 |
| 5               | QPSK       | 12         | 13           | 22.50              | 0.178 | 22.64                 | 0.184 | 22.52               | 0.179 |
| 5               | QPSK       | 25         | 0            | 22.60              | 0.182 | 22.61                 | 0.182 | 22.48               | 0.177 |
| 5               | 16QAM      | 1          | 0            | 22.75              | 0.188 | 22.70                 | 0.186 | 22.57               | 0.181 |
| 5               | 16QAM      | 1          | 12           | 22.63              | 0.183 | 22.72                 | 0.187 | 22.77               | 0.189 |
| 5               | 16QAM      | 1          | 24           | 22.59              | 0.182 | 22.62                 | 0.183 | 22.68               | 0.185 |
| 5               | 16QAM      | 12         | 0            | 21.63              | 0.146 | 21.67                 | 0.147 | 21.68               | 0.147 |
| 5               | 16QAM      | 12         | 7            | 21.67              | 0.147 | 21.76                 | 0.150 | 21.64               | 0.146 |
| 5               | 16QAM      | 12         | 13           | 21.70              | 0.148 | 21.65                 | 0.146 | 21.64               | 0.146 |
| 5               | 16QAM      | 25         | 0            | 21.50              | 0.141 | 21.60                 | 0.145 | 21.58               | 0.144 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23060              |       | 23095                 |       | 23130               |       |
| Frequency (MHz) |            |         |              | 704                |       | 707.5                 |       | 711                 |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1       | 0            | 20.16              | 0.104 | 20.18                 | 0.104 | 20.07               | 0.102 |
| 10              | QPSK       | 1       | 25           | 19.95              | 0.099 | 20.17                 | 0.104 | 19.94               | 0.099 |
| 10              | QPSK       | 1       | 49           | 20.01              | 0.100 | 20.05                 | 0.101 | 19.97               | 0.099 |
| 10              | QPSK       | 25      | 0            | 19.11              | 0.081 | 19.19                 | 0.083 | 19.12               | 0.082 |
| 10              | QPSK       | 25      | 12           | 19.00              | 0.079 | 19.04                 | 0.080 | 19.02               | 0.080 |
| 10              | QPSK       | 25      | 25           | 18.87              | 0.077 | 19.01                 | 0.080 | 18.98               | 0.079 |
| 10              | QPSK       | 50      | 0            | 18.94              | 0.078 | 19.02                 | 0.080 | 19.04               | 0.080 |
| 10              | 16QAM      | 1       | 0            | 19.16              | 0.082 | 19.21                 | 0.083 | 19.14               | 0.082 |
| 10              | 16QAM      | 1       | 25           | 19.03              | 0.080 | 19.08                 | 0.081 | 19.01               | 0.080 |
| 10              | 16QAM      | 1       | 49           | 19.12              | 0.082 | 19.12                 | 0.082 | 19.10               | 0.081 |
| 10              | 16QAM      | 25      | 0            | 18.33              | 0.068 | 18.17                 | 0.066 | 18.13               | 0.065 |
| 10              | 16QAM      | 25      | 12           | 18.18              | 0.066 | 18.20                 | 0.066 | 18.02               | 0.063 |
| 10              | 16QAM      | 25      | 25           | 17.98              | 0.063 | 18.04                 | 0.064 | 17.97               | 0.063 |
| 10              | 16QAM      | 50      | 0            | 18.12              | 0.065 | 18.12                 | 0.065 | 18.03               | 0.064 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23035              |       | 23095                 |       | 23155               |       |
| Frequency (MHz) |            |         |              | 701.5              |       | 707.5                 |       | 713.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1       | 0            | 20.09              | 0.102 | 20.16                 | 0.104 | 20.02               | 0.100 |
| 5               | QPSK       | 1       | 12           | 20.11              | 0.103 | 20.07                 | 0.102 | 20.13               | 0.103 |
| 5               | QPSK       | 1       | 24           | 20.12              | 0.103 | 20.08                 | 0.102 | 19.98               | 0.100 |
| 5               | QPSK       | 12      | 0            | 19.07              | 0.081 | 19.22                 | 0.084 | 19.12               | 0.082 |
| 5               | QPSK       | 12      | 7            | 18.94              | 0.078 | 19.05                 | 0.080 | 19.06               | 0.081 |
| 5               | QPSK       | 12      | 13           | 18.96              | 0.079 | 18.97                 | 0.079 | 18.95               | 0.079 |
| 5               | QPSK       | 25      | 0            | 18.86              | 0.077 | 19.08                 | 0.081 | 19.05               | 0.080 |
| 5               | 16QAM      | 1       | 0            | 19.21              | 0.083 | 19.18                 | 0.083 | 19.11               | 0.081 |
| 5               | 16QAM      | 1       | 12           | 18.95              | 0.079 | 19.09                 | 0.081 | 19.11               | 0.081 |
| 5               | 16QAM      | 1       | 24           | 19.15              | 0.082 | 19.01                 | 0.080 | 19.00               | 0.079 |
| 5               | 16QAM      | 12      | 0            | 18.11              | 0.065 | 18.17                 | 0.066 | 18.17               | 0.066 |
| 5               | 16QAM      | 12      | 7            | 18.00              | 0.063 | 18.11                 | 0.065 | 18.04               | 0.064 |
| 5               | 16QAM      | 12      | 13           | 18.03              | 0.064 | 18.07                 | 0.064 | 18.12               | 0.065 |
| 5               | 16QAM      | 25      | 0            | 18.12              | 0.065 | 18.08                 | 0.064 | 17.95               | 0.062 |



| LTE Band 12     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23025              |       | 23095                 |       | 23165               |       |
| Frequency (MHz) |            |         |              | 700.5              |       | 707.5                 |       | 714.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1       | 0            | 19.96              | 0.099 | 20.14                 | 0.103 | 20.08               | 0.102 |
| 3               | QPSK       | 1       | 8            | 20.00              | 0.100 | 20.07                 | 0.102 | 19.89               | 0.097 |
| 3               | QPSK       | 1       | 14           | 19.94              | 0.099 | 19.97                 | 0.099 | 19.92               | 0.098 |
| 3               | QPSK       | 8       | 0            | 19.04              | 0.080 | 19.15                 | 0.082 | 19.07               | 0.081 |
| 3               | QPSK       | 8       | 4            | 19.10              | 0.081 | 19.12                 | 0.082 | 18.88               | 0.077 |
| 3               | QPSK       | 8       | 7            | 19.12              | 0.082 | 19.11                 | 0.081 | 19.02               | 0.080 |
| 3               | QPSK       | 15      | 0            | 18.93              | 0.078 | 19.08                 | 0.081 | 19.17               | 0.083 |
| 3               | 16QAM      | 1       | 0            | 19.24              | 0.084 | 19.24                 | 0.084 | 19.18               | 0.083 |
| 3               | 16QAM      | 1       | 8            | 19.08              | 0.081 | 19.12                 | 0.082 | 19.14               | 0.082 |
| 3               | 16QAM      | 1       | 14           | 18.96              | 0.079 | 19.10                 | 0.081 | 19.11               | 0.081 |
| 3               | 16QAM      | 8       | 0            | 18.05              | 0.064 | 18.21                 | 0.066 | 18.12               | 0.065 |
| 3               | 16QAM      | 8       | 4            | 17.94              | 0.062 | 18.15                 | 0.065 | 18.05               | 0.064 |
| 3               | 16QAM      | 8       | 7            | 18.15              | 0.065 | 18.01                 | 0.063 | 18.13               | 0.065 |
| 3               | 16QAM      | 15      | 0            | 18.12              | 0.065 | 18.17                 | 0.066 | 18.05               | 0.064 |



| LTE Band 12     |            |         |           | Measured E.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-----------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq. |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 23017           |       | 23095              |       | 23173            |       |
| Frequency (MHz) |            |         |           | 699.7           |       | 707.5              |       | 715.3            |       |
|                 |            |         |           | dBm             | W     | dBm                | W     | dBm              | W     |
| 1.4             | QPSK       | 1       | 0         | 20.08           | 0.102 | 20.12              | 0.103 | 20.04            | 0.101 |
| 1.4             | QPSK       | 1       | 3         | 19.93           | 0.098 | 20.05              | 0.101 | 20.11            | 0.103 |
| 1.4             | QPSK       | 1       | 5         | 19.97           | 0.099 | 20.03              | 0.101 | 20.07            | 0.102 |
| 1.4             | QPSK       | 3       | 0         | 18.98           | 0.079 | 19.18              | 0.083 | 19.00            | 0.079 |
| 1.4             | QPSK       | 3       | 1         | 18.94           | 0.078 | 18.93              | 0.078 | 19.08            | 0.081 |
| 1.4             | QPSK       | 3       | 3         | 18.83           | 0.076 | 18.98              | 0.079 | 19.03            | 0.080 |
| 1.4             | QPSK       | 6       | 0         | 19.03           | 0.080 | 19.21              | 0.083 | 19.07            | 0.081 |
| 1.4             | 16QAM      | 1       | 0         | 19.12           | 0.082 | 19.18              | 0.083 | 19.10            | 0.081 |
| 1.4             | 16QAM      | 1       | 3         | 19.01           | 0.080 | 19.10              | 0.081 | 19.05            | 0.080 |
| 1.4             | 16QAM      | 1       | 5         | 19.02           | 0.080 | 19.00              | 0.079 | 18.98            | 0.079 |
| 1.4             | 16QAM      | 3       | 0         | 18.16           | 0.065 | 18.23              | 0.067 | 18.19            | 0.066 |
| 1.4             | 16QAM      | 3       | 1         | 18.19           | 0.066 | 18.21              | 0.066 | 18.06            | 0.064 |
| 1.4             | 16QAM      | 3       | 3         | 17.98           | 0.063 | 18.19              | 0.066 | 17.98            | 0.063 |
| 1.4             | 16QAM      | 6       | 0         | 18.18           | 0.066 | 18.22              | 0.066 | 18.05            | 0.064 |



| LTE Band 17     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23780              |       | 23790                 |       | 23800               |       |
| Frequency (MHz) |            |         |              | 709                |       | 710                   |       | 711                 |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1       | 0            | 19.87              | 0.097 | 19.95                 | 0.099 | 19.94               | 0.099 |
| 10              | QPSK       | 1       | 25           | 19.89              | 0.097 | 19.92                 | 0.098 | 19.82               | 0.096 |
| 10              | QPSK       | 1       | 49           | 19.76              | 0.095 | 19.88                 | 0.097 | 19.79               | 0.095 |
| 10              | QPSK       | 25      | 0            | 18.76              | 0.075 | 18.96                 | 0.079 | 18.86               | 0.077 |
| 10              | QPSK       | 25      | 12           | 18.84              | 0.077 | 18.86                 | 0.077 | 18.85               | 0.077 |
| 10              | QPSK       | 25      | 25           | 18.75              | 0.075 | 18.79                 | 0.076 | 18.77               | 0.075 |
| 10              | QPSK       | 50      | 0            | 18.76              | 0.075 | 18.85                 | 0.077 | 18.98               | 0.079 |
| 10              | 16QAM      | 1       | 0            | 18.79              | 0.076 | 19.00                 | 0.079 | 18.92               | 0.078 |
| 10              | 16QAM      | 1       | 25           | 18.84              | 0.077 | 18.93                 | 0.078 | 18.92               | 0.078 |
| 10              | 16QAM      | 1       | 49           | 18.89              | 0.077 | 18.90                 | 0.078 | 18.84               | 0.077 |
| 10              | 16QAM      | 25      | 0            | 17.97              | 0.063 | 17.97                 | 0.063 | 17.88               | 0.061 |
| 10              | 16QAM      | 25      | 12           | 17.95              | 0.062 | 17.92                 | 0.062 | 17.83               | 0.061 |
| 10              | 16QAM      | 25      | 25           | 17.76              | 0.060 | 17.82                 | 0.061 | 17.76               | 0.060 |
| 10              | 16QAM      | 50      | 0            | 17.87              | 0.061 | 17.92                 | 0.062 | 17.84               | 0.061 |



| LTE Band 17     |            |         |              | Measured E.R.P.    |       |                       |       |                     |       |
|-----------------|------------|---------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |         |              | 23755              |       | 23790                 |       | 23825               |       |
| Frequency (MHz) |            |         |              | 706.5              |       | 710                   |       | 713.5               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1       | 0            | 19.91              | 0.098 | 19.92                 | 0.098 | 19.89               | 0.097 |
| 5               | QPSK       | 1       | 12           | 19.72              | 0.094 | 19.90                 | 0.098 | 19.79               | 0.095 |
| 5               | QPSK       | 1       | 24           | 19.85              | 0.097 | 19.87                 | 0.097 | 19.82               | 0.096 |
| 5               | QPSK       | 12      | 0            | 18.90              | 0.078 | 19.01                 | 0.080 | 18.95               | 0.079 |
| 5               | QPSK       | 12      | 7            | 18.89              | 0.077 | 18.92                 | 0.078 | 18.78               | 0.076 |
| 5               | QPSK       | 12      | 13           | 18.71              | 0.074 | 18.85                 | 0.077 | 18.78               | 0.076 |
| 5               | QPSK       | 25      | 0            | 18.80              | 0.076 | 18.83                 | 0.076 | 18.81               | 0.076 |
| 5               | 16QAM      | 1       | 0            | 18.92              | 0.078 | 19.00                 | 0.079 | 19.00               | 0.079 |
| 5               | 16QAM      | 1       | 12           | 18.76              | 0.075 | 18.96                 | 0.079 | 18.97               | 0.079 |
| 5               | 16QAM      | 1       | 24           | 18.86              | 0.077 | 18.95                 | 0.079 | 18.86               | 0.077 |
| 5               | 16QAM      | 12      | 0            | 17.90              | 0.062 | 17.96                 | 0.063 | 17.92               | 0.062 |
| 5               | 16QAM      | 12      | 7            | 17.91              | 0.062 | 17.85                 | 0.061 | 17.88               | 0.061 |
| 5               | 16QAM      | 12      | 13           | 17.90              | 0.062 | 17.93                 | 0.062 | 17.96               | 0.063 |
| 5               | 16QAM      | 25      | 0            | 17.89              | 0.062 | 17.87                 | 0.061 | 17.86               | 0.061 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 132072             |       | 132322                |       | 132572              |       |
| Frequency (MHz) |            |            |              | 1720               |       | 1745                  |       | 1770                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 25.22              | 0.333 | 25.35                 | 0.343 | 25.26               | 0.336 |
| 20              | QPSK       | 1          | 49           | 25.19              | 0.330 | 25.29                 | 0.338 | 25.01               | 0.317 |
| 20              | QPSK       | 1          | 99           | 25.02              | 0.318 | 25.17                 | 0.329 | 25.15               | 0.327 |
| 20              | QPSK       | 50         | 0            | 24.12              | 0.258 | 24.36                 | 0.273 | 24.24               | 0.265 |
| 20              | QPSK       | 50         | 24           | 24.14              | 0.259 | 24.19                 | 0.262 | 24.17               | 0.261 |
| 20              | QPSK       | 50         | 50           | 24.19              | 0.262 | 24.25                 | 0.266 | 24.25               | 0.266 |
| 20              | QPSK       | 100        | 0            | 24.24              | 0.265 | 24.31                 | 0.270 | 24.28               | 0.268 |
| 20              | 16QAM      | 1          | 0            | 24.31              | 0.270 | 24.40                 | 0.275 | 24.19               | 0.262 |
| 20              | 16QAM      | 1          | 49           | 24.40              | 0.275 | 24.40                 | 0.275 | 24.26               | 0.267 |
| 20              | 16QAM      | 1          | 99           | 24.24              | 0.265 | 24.26                 | 0.267 | 24.12               | 0.258 |
| 20              | 16QAM      | 50         | 0            | 23.14              | 0.206 | 23.29                 | 0.213 | 23.23               | 0.210 |
| 20              | 16QAM      | 50         | 24           | 23.13              | 0.206 | 23.23                 | 0.210 | 23.09               | 0.204 |
| 20              | 16QAM      | 50         | 50           | 23.30              | 0.214 | 23.35                 | 0.216 | 23.15               | 0.207 |
| 20              | 16QAM      | 100        | 0            | 23.19              | 0.208 | 23.25                 | 0.211 | 23.26               | 0.212 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 132047             |       | 132322                |       | 132597              |       |
| Frequency (MHz) |            |            |              | 1717.5             |       | 1745                  |       | 1772.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 25.23              | 0.333 | 25.32                 | 0.340 | 25.31               | 0.340 |
| 15              | QPSK       | 1          | 37           | 25.31              | 0.340 | 25.18                 | 0.330 | 25.31               | 0.340 |
| 15              | QPSK       | 1          | 74           | 25.05              | 0.320 | 25.23                 | 0.333 | 25.16               | 0.328 |
| 15              | QPSK       | 36         | 0            | 24.07              | 0.255 | 24.34                 | 0.272 | 24.17               | 0.261 |
| 15              | QPSK       | 36         | 20           | 24.24              | 0.265 | 24.24                 | 0.265 | 24.07               | 0.255 |
| 15              | QPSK       | 36         | 39           | 24.09              | 0.256 | 24.14                 | 0.259 | 24.09               | 0.256 |
| 15              | QPSK       | 75         | 0            | 24.25              | 0.266 | 24.24                 | 0.265 | 24.09               | 0.256 |
| 15              | 16QAM      | 1          | 0            | 24.23              | 0.265 | 24.27                 | 0.267 | 24.26               | 0.267 |
| 15              | 16QAM      | 1          | 37           | 24.29              | 0.269 | 24.37                 | 0.274 | 24.35               | 0.272 |
| 15              | 16QAM      | 1          | 74           | 24.22              | 0.264 | 24.17                 | 0.261 | 24.15               | 0.260 |
| 15              | 16QAM      | 36         | 0            | 23.18              | 0.208 | 23.33                 | 0.215 | 23.24               | 0.211 |
| 15              | 16QAM      | 36         | 20           | 23.31              | 0.214 | 23.32                 | 0.215 | 23.28               | 0.213 |
| 15              | 16QAM      | 36         | 39           | 23.09              | 0.204 | 23.12                 | 0.205 | 23.11               | 0.205 |
| 15              | 16QAM      | 75         | 0            | 23.31              | 0.214 | 23.32                 | 0.215 | 23.20               | 0.209 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 132022             |       | 132322                |       | 132622              |       |
| Frequency (MHz) |            |            |              | 1715               |       | 1745                  |       | 1775                |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 25.24              | 0.334 | 25.33                 | 0.341 | 25.17               | 0.329 |
| 10              | QPSK       | 1          | 25           | 25.08              | 0.322 | 25.11                 | 0.324 | 25.16               | 0.328 |
| 10              | QPSK       | 1          | 49           | 25.10              | 0.324 | 25.12                 | 0.325 | 25.09               | 0.323 |
| 10              | QPSK       | 25         | 0            | 24.24              | 0.265 | 24.28                 | 0.268 | 24.12               | 0.258 |
| 10              | QPSK       | 25         | 12           | 24.17              | 0.261 | 24.26                 | 0.267 | 24.20               | 0.263 |
| 10              | QPSK       | 25         | 25           | 24.07              | 0.255 | 24.18                 | 0.262 | 24.27               | 0.267 |
| 10              | QPSK       | 50         | 0            | 24.16              | 0.261 | 24.29                 | 0.269 | 24.14               | 0.259 |
| 10              | 16QAM      | 1          | 0            | 24.28              | 0.268 | 24.30                 | 0.269 | 24.20               | 0.263 |
| 10              | 16QAM      | 1          | 25           | 24.22              | 0.264 | 24.35                 | 0.272 | 24.22               | 0.264 |
| 10              | 16QAM      | 1          | 49           | 24.09              | 0.256 | 24.26                 | 0.267 | 24.27               | 0.267 |
| 10              | 16QAM      | 25         | 0            | 23.22              | 0.210 | 23.36                 | 0.217 | 23.33               | 0.215 |
| 10              | 16QAM      | 25         | 12           | 23.24              | 0.211 | 23.15                 | 0.207 | 23.13               | 0.206 |
| 10              | 16QAM      | 25         | 25           | 23.10              | 0.204 | 23.31                 | 0.214 | 23.24               | 0.211 |
| 10              | 16QAM      | 50         | 0            | 23.21              | 0.209 | 23.28                 | 0.213 | 23.15               | 0.207 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 131997             |       | 132322                |       | 132647              |       |
| Frequency (MHz) |            |            |              | 1712.5             |       | 1745                  |       | 1777.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 25.27              | 0.337 | 25.30                 | 0.339 | 25.25               | 0.335 |
| 5               | QPSK       | 1          | 12           | 25.18              | 0.330 | 25.30                 | 0.339 | 25.02               | 0.318 |
| 5               | QPSK       | 1          | 24           | 25.25              | 0.335 | 25.14                 | 0.327 | 25.18               | 0.330 |
| 5               | QPSK       | 12         | 0            | 24.27              | 0.267 | 24.26                 | 0.267 | 24.25               | 0.266 |
| 5               | QPSK       | 12         | 7            | 24.08              | 0.256 | 24.07                 | 0.255 | 24.14               | 0.259 |
| 5               | QPSK       | 12         | 13           | 24.18              | 0.262 | 24.03                 | 0.253 | 24.14               | 0.259 |
| 5               | QPSK       | 25         | 0            | 24.00              | 0.251 | 24.21                 | 0.264 | 24.27               | 0.267 |
| 5               | 16QAM      | 1          | 0            | 24.20              | 0.263 | 24.32                 | 0.270 | 24.37               | 0.274 |
| 5               | 16QAM      | 1          | 12           | 24.23              | 0.265 | 24.18                 | 0.262 | 24.16               | 0.261 |
| 5               | 16QAM      | 1          | 24           | 24.08              | 0.256 | 24.22                 | 0.264 | 24.12               | 0.258 |
| 5               | 16QAM      | 12         | 0            | 23.32              | 0.215 | 23.36                 | 0.217 | 23.30               | 0.214 |
| 5               | 16QAM      | 12         | 7            | 23.34              | 0.216 | 23.18                 | 0.208 | 23.14               | 0.206 |
| 5               | 16QAM      | 12         | 13           | 23.07              | 0.203 | 23.36                 | 0.217 | 23.36               | 0.217 |
| 5               | 16QAM      | 25         | 0            | 23.30              | 0.214 | 23.29                 | 0.213 | 23.31               | 0.214 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 131987             |       | 132322                |       | 132657              |       |
| Frequency (MHz) |            |            |              | 1711.5             |       | 1745                  |       | 1778.5              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 3               | QPSK       | 1          | 0            | 25.32              | 0.340 | 25.33                 | 0.341 | 25.32               | 0.340 |
| 3               | QPSK       | 1          | 8            | 25.25              | 0.335 | 25.30                 | 0.339 | 25.30               | 0.339 |
| 3               | QPSK       | 1          | 14           | 25.19              | 0.330 | 25.07                 | 0.321 | 25.17               | 0.329 |
| 3               | QPSK       | 8          | 0            | 24.16              | 0.261 | 24.16                 | 0.261 | 24.14               | 0.259 |
| 3               | QPSK       | 8          | 4            | 24.17              | 0.261 | 24.01                 | 0.252 | 24.23               | 0.265 |
| 3               | QPSK       | 8          | 7            | 24.18              | 0.262 | 24.14                 | 0.259 | 24.09               | 0.256 |
| 3               | QPSK       | 15         | 0            | 24.17              | 0.261 | 24.15                 | 0.260 | 24.22               | 0.264 |
| 3               | 16QAM      | 1          | 0            | 24.18              | 0.262 | 24.36                 | 0.273 | 24.37               | 0.274 |
| 3               | 16QAM      | 1          | 8            | 24.37              | 0.274 | 24.25                 | 0.266 | 24.25               | 0.266 |
| 3               | 16QAM      | 1          | 14           | 24.12              | 0.258 | 24.20                 | 0.263 | 24.19               | 0.262 |
| 3               | 16QAM      | 8          | 0            | 23.21              | 0.209 | 23.31                 | 0.214 | 23.18               | 0.208 |
| 3               | 16QAM      | 8          | 4            | 23.04              | 0.201 | 23.28                 | 0.213 | 23.12               | 0.205 |
| 3               | 16QAM      | 8          | 7            | 23.11              | 0.205 | 23.11                 | 0.205 | 23.07               | 0.203 |
| 3               | 16QAM      | 15         | 0            | 23.20              | 0.209 | 23.27                 | 0.212 | 23.29               | 0.213 |



| LTE Band 66     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 131979             |       | 132322                |       | 132665              |       |
| Frequency (MHz) |            |            |              | 1710.7             |       | 1745                  |       | 1779.3              |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 1.4             | QPSK       | 1          | 0            | 25.13              | 0.326 | 25.31                 | 0.340 | 25.14               | 0.327 |
| 1.4             | QPSK       | 1          | 3            | 25.04              | 0.319 | 25.13                 | 0.326 | 25.14               | 0.327 |
| 1.4             | QPSK       | 1          | 5            | 25.14              | 0.327 | 25.29                 | 0.338 | 25.26               | 0.336 |
| 1.4             | QPSK       | 3          | 0            | 24.25              | 0.266 | 24.38                 | 0.274 | 24.36               | 0.273 |
| 1.4             | QPSK       | 3          | 1            | 24.02              | 0.252 | 24.02                 | 0.252 | 24.13               | 0.259 |
| 1.4             | QPSK       | 3          | 3            | 24.08              | 0.256 | 24.25                 | 0.266 | 24.30               | 0.269 |
| 1.4             | QPSK       | 6          | 0            | 24.23              | 0.265 | 24.29                 | 0.269 | 24.23               | 0.265 |
| 1.4             | 16QAM      | 1          | 0            | 24.36              | 0.273 | 24.31                 | 0.270 | 24.20               | 0.263 |
| 1.4             | 16QAM      | 1          | 3            | 24.36              | 0.273 | 24.18                 | 0.262 | 24.28               | 0.268 |
| 1.4             | 16QAM      | 1          | 5            | 24.09              | 0.256 | 24.34                 | 0.272 | 24.12               | 0.258 |
| 1.4             | 16QAM      | 3          | 0            | 23.38              | 0.218 | 23.34                 | 0.216 | 23.31               | 0.214 |
| 1.4             | 16QAM      | 3          | 1            | 23.22              | 0.210 | 23.51                 | 0.224 | 23.34               | 0.216 |
| 1.4             | 16QAM      | 3          | 3            | 23.18              | 0.208 | 23.44                 | 0.221 | 23.35               | 0.216 |
| 1.4             | 16QAM      | 6          | 0            | 23.36              | 0.217 | 23.32                 | 0.215 | 23.25               | 0.211 |



| LTE Band 71     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 133222             |       | 133322                |       | 133372              |       |
| Frequency (MHz) |            |            |              | 673                |       | 683                   |       | 688                 |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 20              | QPSK       | 1          | 0            | 19.00              | 0.079 | 19.23                 | 0.084 | 19.10               | 0.081 |
| 20              | QPSK       | 1          | 49           | 19.10              | 0.081 | 19.14                 | 0.082 | 19.07               | 0.081 |
| 20              | QPSK       | 1          | 99           | 19.11              | 0.081 | 19.20                 | 0.083 | 19.04               | 0.080 |
| 20              | QPSK       | 50         | 0            | 18.12              | 0.065 | 18.21                 | 0.066 | 18.11               | 0.065 |
| 20              | QPSK       | 50         | 24           | 17.97              | 0.063 | 18.00                 | 0.063 | 17.94               | 0.062 |
| 20              | QPSK       | 50         | 50           | 17.88              | 0.061 | 18.05                 | 0.064 | 18.00               | 0.063 |
| 20              | QPSK       | 100        | 0            | 17.92              | 0.062 | 18.12                 | 0.065 | 18.06               | 0.064 |
| 20              | 16QAM      | 1          | 0            | 18.14              | 0.065 | 18.18                 | 0.066 | 18.12               | 0.065 |
| 20              | 16QAM      | 1          | 49           | 18.11              | 0.065 | 18.16                 | 0.065 | 18.15               | 0.065 |
| 20              | 16QAM      | 1          | 99           | 17.98              | 0.063 | 18.15                 | 0.065 | 17.95               | 0.062 |
| 20              | 16QAM      | 50         | 0            | 17.05              | 0.051 | 17.18                 | 0.052 | 17.14               | 0.052 |
| 20              | 16QAM      | 50         | 24           | 17.03              | 0.050 | 17.13                 | 0.052 | 17.11               | 0.051 |
| 20              | 16QAM      | 50         | 50           | 17.07              | 0.051 | 17.10                 | 0.051 | 16.95               | 0.050 |
| 20              | 16QAM      | 100        | 0            | 16.96              | 0.050 | 17.05                 | 0.051 | 17.03               | 0.050 |



| LTE Band 71     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 133197             |       | 133297                |       | 133397              |       |
| Frequency (MHz) |            |            |              | 670.8              |       | 680.5                 |       | 690.5               |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 15              | QPSK       | 1          | 0            | 19.14              | 0.082 | 19.21                 | 0.083 | 19.11               | 0.081 |
| 15              | QPSK       | 1          | 37           | 19.00              | 0.079 | 19.15                 | 0.082 | 19.09               | 0.081 |
| 15              | QPSK       | 1          | 74           | 18.98              | 0.079 | 19.16                 | 0.082 | 19.02               | 0.080 |
| 15              | QPSK       | 36         | 0            | 18.17              | 0.066 | 18.21                 | 0.066 | 18.14               | 0.065 |
| 15              | QPSK       | 36         | 20           | 17.88              | 0.061 | 18.07                 | 0.064 | 17.98               | 0.063 |
| 15              | QPSK       | 36         | 39           | 17.93              | 0.062 | 18.17                 | 0.066 | 17.94               | 0.062 |
| 15              | QPSK       | 75         | 0            | 17.92              | 0.062 | 18.14                 | 0.065 | 17.99               | 0.063 |
| 15              | 16QAM      | 1          | 0            | 18.05              | 0.064 | 18.15                 | 0.065 | 18.01               | 0.063 |
| 15              | 16QAM      | 1          | 37           | 17.98              | 0.063 | 18.12                 | 0.065 | 18.08               | 0.064 |
| 15              | 16QAM      | 1          | 74           | 18.07              | 0.064 | 18.17                 | 0.066 | 18.12               | 0.065 |
| 15              | 16QAM      | 36         | 0            | 17.04              | 0.051 | 17.20                 | 0.052 | 17.09               | 0.051 |
| 15              | 16QAM      | 36         | 20           | 17.10              | 0.051 | 17.12                 | 0.052 | 17.06               | 0.051 |
| 15              | 16QAM      | 36         | 39           | 17.09              | 0.051 | 17.08                 | 0.051 | 17.04               | 0.051 |
| 15              | 16QAM      | 75         | 0            | 17.07              | 0.051 | 17.14                 | 0.052 | 17.02               | 0.050 |



| LTE Band 71     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 133172             |       | 133272                |       | 133422              |       |
| Frequency (MHz) |            |            |              | 668                |       | 678                   |       | 693                 |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 10              | QPSK       | 1          | 0            | 19.13              | 0.082 | 19.20                 | 0.083 | 19.07               | 0.081 |
| 10              | QPSK       | 1          | 25           | 18.97              | 0.079 | 19.14                 | 0.082 | 19.15               | 0.082 |
| 10              | QPSK       | 1          | 49           | 19.09              | 0.081 | 19.13                 | 0.082 | 18.96               | 0.079 |
| 10              | QPSK       | 25         | 0            | 18.09              | 0.064 | 18.25                 | 0.067 | 18.22               | 0.066 |
| 10              | QPSK       | 25         | 12           | 18.16              | 0.065 | 18.23                 | 0.067 | 17.89               | 0.062 |
| 10              | QPSK       | 25         | 25           | 18.04              | 0.064 | 18.02                 | 0.063 | 17.98               | 0.063 |
| 10              | QPSK       | 50         | 0            | 17.88              | 0.061 | 18.14                 | 0.065 | 18.13               | 0.065 |
| 10              | 16QAM      | 1          | 0            | 18.12              | 0.065 | 18.17                 | 0.066 | 18.04               | 0.064 |
| 10              | 16QAM      | 1          | 25           | 18.15              | 0.065 | 18.03                 | 0.064 | 18.05               | 0.064 |
| 10              | 16QAM      | 1          | 49           | 18.05              | 0.064 | 18.19                 | 0.066 | 18.11               | 0.065 |
| 10              | 16QAM      | 25         | 0            | 17.14              | 0.052 | 17.18                 | 0.052 | 17.12               | 0.052 |
| 10              | 16QAM      | 25         | 12           | 17.22              | 0.053 | 17.12                 | 0.052 | 17.07               | 0.051 |
| 10              | 16QAM      | 25         | 25           | 16.99              | 0.050 | 17.24                 | 0.053 | 17.12               | 0.052 |
| 10              | 16QAM      | 50         | 0            | 16.98              | 0.050 | 17.10                 | 0.051 | 17.06               | 0.051 |



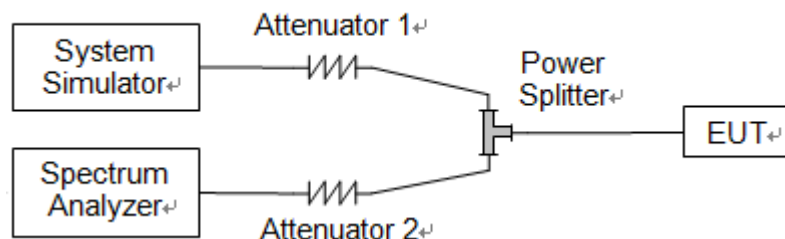
| LTE Band 71     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| BW<br>[MHz]     | Modulation | RB<br>Size | RB<br>Offset | Low<br>Ch. / Freq. |       | Middle<br>Ch. / Freq. |       | High<br>Ch. / Freq. |       |
| Channel         |            |            |              | 133147             |       | 133247                |       | 133447              |       |
| Frequency (MHz) |            |            |              | 665.5              |       | 675.5                 |       | 695.5               |       |
|                 |            |            |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 5               | QPSK       | 1          | 0            | 18.96              | 0.079 | 19.21                 | 0.083 | 19.11               | 0.081 |
| 5               | QPSK       | 1          | 12           | 19.05              | 0.080 | 19.08                 | 0.081 | 18.96               | 0.079 |
| 5               | QPSK       | 1          | 24           | 18.98              | 0.079 | 19.04                 | 0.080 | 19.06               | 0.081 |
| 5               | QPSK       | 12         | 0            | 18.07              | 0.064 | 18.13                 | 0.065 | 18.08               | 0.064 |
| 5               | QPSK       | 12         | 7            | 18.01              | 0.063 | 18.13                 | 0.065 | 18.13               | 0.065 |
| 5               | QPSK       | 12         | 13           | 17.82              | 0.061 | 17.86                 | 0.061 | 17.82               | 0.061 |
| 5               | QPSK       | 25         | 0            | 18.14              | 0.065 | 18.11                 | 0.065 | 18.09               | 0.064 |
| 5               | 16QAM      | 1          | 0            | 18.13              | 0.065 | 18.21                 | 0.066 | 18.09               | 0.064 |
| 5               | 16QAM      | 1          | 12           | 18.01              | 0.063 | 18.16                 | 0.065 | 18.06               | 0.064 |
| 5               | 16QAM      | 1          | 24           | 17.93              | 0.062 | 18.10                 | 0.065 | 18.02               | 0.063 |
| 5               | 16QAM      | 12         | 0            | 17.01              | 0.050 | 17.15                 | 0.052 | 17.06               | 0.051 |
| 5               | 16QAM      | 12         | 7            | 16.99              | 0.050 | 17.14                 | 0.052 | 17.02               | 0.050 |
| 5               | 16QAM      | 12         | 13           | 17.13              | 0.052 | 17.03                 | 0.050 | 17.18               | 0.052 |
| 5               | 16QAM      | 25         | 0            | 17.05              | 0.051 | 17.18                 | 0.052 | 17.09               | 0.051 |

## 2.2. Occupied Bandwidth

### 2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

### 2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.2.3. Test Procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

### 2.2.4. Test Result



| LTE Band 2 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4        | Low           | QPSK       | 1.09        | 1.24         |
|            | Low           | 16QAM      | 1.10        | 1.25         |
|            | Mid           | QPSK       | 1.09        | 1.25         |
|            | Mid           | 16QAM      | 1.10        | 1.25         |
|            | High          | QPSK       | 1.10        | 1.25         |
|            | High          | 16QAM      | 1.10        | 1.26         |
| 3          | Low           | QPSK       | 2.72        | 3.05         |
|            | Low           | 16QAM      | 2.71        | 3.05         |
|            | Mid           | QPSK       | 2.71        | 2.98         |
|            | Mid           | 16QAM      | 2.72        | 3.05         |
|            | High          | QPSK       | 2.71        | 3.05         |
|            | High          | 16QAM      | 2.71        | 3.04         |
| 5          | Low           | QPSK       | 4.50        | 4.95         |
|            | Low           | 16QAM      | 4.50        | 4.99         |
|            | Mid           | QPSK       | 4.50        | 4.97         |
|            | Mid           | 16QAM      | 4.50        | 4.97         |
|            | High          | QPSK       | 4.50        | 4.96         |
|            | High          | 16QAM      | 4.50        | 4.97         |
| 10         | Low           | QPSK       | 8.94        | 9.62         |
|            | Low           | 16QAM      | 8.98        | 9.84         |
|            | Mid           | QPSK       | 9.01        | 9.89         |
|            | Mid           | 16QAM      | 8.96        | 9.85         |
|            | High          | QPSK       | 8.99        | 9.79         |
|            | High          | 16QAM      | 8.95        | 9.81         |
| 15         | Low           | QPSK       | 13.54       | 14.99        |
|            | Low           | 16QAM      | 13.51       | 14.99        |
|            | Mid           | QPSK       | 13.46       | 14.91        |
|            | Mid           | 16QAM      | 13.46       | 14.98        |
|            | High          | QPSK       | 13.47       | 14.90        |
|            | High          | 16QAM      | 13.45       | 14.82        |
| 20         | Low           | QPSK       | 18.03       | 19.80        |
|            | Low           | 16QAM      | 18.01       | 19.86        |
|            | Mid           | QPSK       | 17.96       | 19.67        |
|            | Mid           | 16QAM      | 17.90       | 18.90        |
|            | High          | QPSK       | 17.97       | 19.78        |
|            | High          | 16QAM      | 18.03       | 19.68        |



| LTE Band 4 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4        | Low           | QPSK       | 1.10        | 1.38         |
|            | Low           | 16QAM      | 1.11        | 1.65         |
|            | Mid           | QPSK       | 1.10        | 1.25         |
|            | Mid           | 16QAM      | 1.10        | 1.25         |
|            | High          | QPSK       | 1.10        | 1.25         |
|            | High          | 16QAM      | 1.10        | 1.25         |
| 3          | Low           | QPSK       | 2.73        | 3.07         |
|            | Low           | 16QAM      | 2.73        | 3.09         |
|            | Mid           | QPSK       | 2.71        | 3.06         |
|            | Mid           | 16QAM      | 2.72        | 3.05         |
|            | High          | QPSK       | 2.72        | 3.06         |
|            | High          | 16QAM      | 2.72        | 3.99         |
| 5          | Low           | QPSK       | 4.51        | 5.36         |
|            | Low           | 16QAM      | 4.50        | 4.97         |
|            | Mid           | QPSK       | 4.49        | 4.96         |
|            | Mid           | 16QAM      | 4.50        | 5.00         |
|            | High          | QPSK       | 4.50        | 4.94         |
|            | High          | 16QAM      | 4.51        | 4.96         |
| 10         | Low           | QPSK       | 9.01        | 9.87         |
|            | Low           | 16QAM      | 8.98        | 9.82         |
|            | Mid           | QPSK       | 8.98        | 9.81         |
|            | Mid           | 16QAM      | 8.96        | 9.79         |
|            | High          | QPSK       | 9.03        | 9.86         |
|            | High          | 16QAM      | 8.98        | 9.84         |
| 15         | Low           | QPSK       | 13.51       | 14.95        |
|            | Low           | 16QAM      | 13.51       | 14.95        |
|            | Mid           | QPSK       | 13.50       | 15.02        |
|            | Mid           | 16QAM      | 13.47       | 14.95        |
|            | High          | QPSK       | 13.48       | 14.89        |
|            | High          | 16QAM      | 13.51       | 14.89        |
| 20         | Low           | QPSK       | 18.01       | 19.77        |
|            | Low           | 16QAM      | 18.05       | 19.78        |
|            | Mid           | QPSK       | 17.95       | 19.66        |
|            | Mid           | 16QAM      | 17.98       | 19.80        |
|            | High          | QPSK       | 17.99       | 19.75        |
|            | High          | 16QAM      | 18.02       | 20.78        |



| LTE Band 5 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4        | Low           | QPSK       | 1.09        | 1.24         |
|            | Low           | 16QAM      | 1.10        | 1.24         |
|            | Mid           | QPSK       | 1.09        | 1.24         |
|            | Mid           | 16QAM      | 1.10        | 1.25         |
|            | High          | QPSK       | 1.09        | 1.24         |
|            | High          | 16QAM      | 1.10        | 1.25         |
| 3          | Low           | QPSK       | 2.71        | 3.05         |
|            | Low           | 16QAM      | 2.72        | 3.06         |
|            | Mid           | QPSK       | 2.72        | 3.04         |
|            | Mid           | 16QAM      | 2.71        | 3.06         |
|            | High          | QPSK       | 2.72        | 3.04         |
|            | High          | 16QAM      | 2.71        | 3.06         |
| 5          | Low           | QPSK       | 4.50        | 4.99         |
|            | Low           | 16QAM      | 4.50        | 4.98         |
|            | Mid           | QPSK       | 4.50        | 4.99         |
|            | Mid           | 16QAM      | 4.50        | 4.99         |
|            | High          | QPSK       | 4.50        | 4.98         |
|            | High          | 16QAM      | 4.49        | 4.98         |
| 10         | Low           | QPSK       | 9.01        | 9.92         |
|            | Low           | 16QAM      | 8.98        | 9.87         |
|            | Mid           | QPSK       | 9.02        | 9.81         |
|            | Mid           | 16QAM      | 8.97        | 9.77         |
|            | High          | QPSK       | 8.99        | 9.89         |
|            | High          | 16QAM      | 8.95        | 9.83         |



| LTE Band 7 |               |            |             |              |
|------------|---------------|------------|-------------|--------------|
| BW(MHz)    | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 5          | Low           | QPSK       | 4.50        | 4.96         |
|            | Low           | 16QAM      | 4.51        | 4.99         |
|            | Mid           | QPSK       | 4.50        | 4.99         |
|            | Mid           | 16QAM      | 4.50        | 4.96         |
|            | High          | QPSK       | 4.51        | 4.99         |
|            | High          | 16QAM      | 4.51        | 4.99         |
| 10         | Low           | QPSK       | 9.01        | 9.89         |
|            | Low           | 16QAM      | 8.97        | 9.82         |
|            | Mid           | QPSK       | 9.01        | 9.89         |
|            | Mid           | 16QAM      | 8.98        | 9.83         |
|            | High          | QPSK       | 9.01        | 9.84         |
|            | High          | 16QAM      | 9.01        | 9.84         |
| 15         | Low           | QPSK       | 13.48       | 14.90        |
|            | Low           | 16QAM      | 13.50       | 15.00        |
|            | Mid           | QPSK       | 13.52       | 14.98        |
|            | Mid           | 16QAM      | 13.50       | 15.02        |
|            | High          | QPSK       | 13.50       | 14.86        |
|            | High          | 16QAM      | 13.49       | 15.03        |
| 20         | Low           | QPSK       | 17.95       | 19.62        |
|            | Low           | 16QAM      | 17.99       | 19.74        |
|            | Mid           | QPSK       | 17.97       | 19.78        |
|            | Mid           | 16QAM      | 18.01       | 19.72        |
|            | High          | QPSK       | 17.99       | 19.66        |
|            | High          | 16QAM      | 17.99       | 19.78        |



| LTE Band 12 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4         | Low           | QPSK       | 1.09        | 1.24         |
|             | Low           | 16QAM      | 1.10        | 1.29         |
|             | Mid           | QPSK       | 1.10        | 1.25         |
|             | Mid           | 16QAM      | 1.10        | 1.25         |
|             | High          | QPSK       | 1.10        | 1.24         |
|             | High          | 16QAM      | 1.10        | 1.25         |
| 3           | Low           | QPSK       | 2.71        | 3.04         |
|             | Low           | 16QAM      | 2.71        | 3.05         |
|             | Mid           | QPSK       | 2.72        | 3.04         |
|             | Mid           | 16QAM      | 2.71        | 3.04         |
|             | High          | QPSK       | 2.71        | 3.05         |
|             | High          | 16QAM      | 2.71        | 3.06         |
| 5           | Low           | QPSK       | 4.50        | 4.98         |
|             | Low           | 16QAM      | 4.50        | 4.98         |
|             | Mid           | QPSK       | 4.50        | 4.99         |
|             | Mid           | 16QAM      | 4.50        | 5.02         |
|             | High          | QPSK       | 4.49        | 4.95         |
|             | High          | 16QAM      | 4.49        | 5.00         |
| 10          | Low           | QPSK       | 9.02        | 9.88         |
|             | Low           | 16QAM      | 8.97        | 9.81         |
|             | Mid           | QPSK       | 8.99        | 9.88         |
|             | Mid           | 16QAM      | 8.97        | 9.78         |
|             | High          | QPSK       | 8.98        | 9.89         |
|             | High          | 16QAM      | 8.95        | 9.75         |



| LTE Band 17 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 5           | Low           | QPSK       | 4.50        | 4.95         |
|             | Low           | 16QAM      | 4.50        | 4.98         |
|             | Mid           | QPSK       | 4.50        | 4.96         |
|             | Mid           | 16QAM      | 4.50        | 4.94         |
|             | High          | QPSK       | 4.49        | 4.98         |
|             | High          | 16QAM      | 4.51        | 4.99         |
| 10          | Low           | QPSK       | 9.00        | 9.87         |
|             | Low           | 16QAM      | 8.95        | 9.79         |
|             | Mid           | QPSK       | 8.99        | 9.85         |
|             | Mid           | 16QAM      | 8.97        | 9.80         |
|             | High          | QPSK       | 8.96        | 9.85         |
|             | High          | 16QAM      | 8.96        | 9.79         |



| LTE Band 66 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 1.4         | Low           | QPSK       | 1.10        | 1.29         |
|             | Low           | 16QAM      | 1.11        | 1.64         |
|             | Mid           | QPSK       | 1.10        | 1.24         |
|             | Mid           | 16QAM      | 1.11        | 1.28         |
|             | High          | QPSK       | 1.10        | 1.26         |
|             | High          | 16QAM      | 1.10        | 1.26         |
| 3           | Low           | QPSK       | 2.73        | 3.13         |
|             | Low           | 16QAM      | 2.73        | 3.12         |
|             | Mid           | QPSK       | 2.72        | 3.05         |
|             | Mid           | 16QAM      | 2.72        | 3.08         |
|             | High          | QPSK       | 2.72        | 3.07         |
|             | High          | 16QAM      | 2.71        | 3.07         |
| 5           | Low           | QPSK       | 4.50        | 4.98         |
|             | Low           | 16QAM      | 4.52        | 5.15         |
|             | Mid           | QPSK       | 4.50        | 4.98         |
|             | Mid           | 16QAM      | 4.50        | 4.99         |
|             | High          | QPSK       | 4.50        | 4.97         |
|             | High          | 16QAM      | 4.50        | 4.99         |
| 10          | Low           | QPSK       | 9.01        | 9.92         |
|             | Low           | 16QAM      | 9.00        | 9.81         |
|             | Mid           | QPSK       | 9.00        | 9.90         |
|             | Mid           | 16QAM      | 8.99        | 9.84         |
|             | High          | QPSK       | 8.99        | 9.87         |
|             | High          | 16QAM      | 8.97        | 9.85         |
| 15          | Low           | QPSK       | 13.49       | 14.85        |
|             | Low           | 16QAM      | 13.53       | 14.92        |
|             | Mid           | QPSK       | 13.52       | 14.95        |
|             | Mid           | 16QAM      | 13.50       | 16.69        |
|             | High          | QPSK       | 13.46       | 14.97        |
|             | High          | 16QAM      | 13.49       | 14.97        |
| 20          | Low           | QPSK       | 18.00       | 19.77        |
|             | Low           | 16QAM      | 18.06       | 19.80        |
|             | Mid           | QPSK       | 17.96       | 19.72        |
|             | Mid           | 16QAM      | 18.00       | 19.86        |
|             | High          | QPSK       | 18.01       | 19.86        |
|             | High          | 16QAM      | 18.02       | 19.91        |



| LTE Band 71 |               |            |             |              |
|-------------|---------------|------------|-------------|--------------|
| BW(MHz)     | Channel Level | Modulation | 99% BW(MHz) | 26dB BW(MHz) |
| 5           | Low           | QPSK       | 4.50        | 4.98         |
|             | Low           | 16QAM      | 4.51        | 5.00         |
|             | Mid           | QPSK       | 4.50        | 4.99         |
|             | Mid           | 16QAM      | 4.50        | 5.00         |
|             | High          | QPSK       | 4.51        | 4.98         |
|             | High          | 16QAM      | 4.51        | 5.03         |
| 10          | Low           | QPSK       | 8.98        | 9.88         |
|             | Low           | 16QAM      | 8.96        | 9.79         |
|             | Mid           | QPSK       | 9.03        | 9.87         |
|             | Mid           | 16QAM      | 8.99        | 9.89         |
|             | High          | QPSK       | 9.04        | 9.94         |
|             | High          | 16QAM      | 9.02        | 9.81         |
| 15          | Low           | QPSK       | 13.43       | 14.78        |
|             | Low           | 16QAM      | 13.48       | 14.94        |
|             | Mid           | QPSK       | 13.52       | 14.90        |
|             | Mid           | 16QAM      | 13.48       | 14.92        |
|             | High          | QPSK       | 13.48       | 14.87        |
|             | High          | 16QAM      | 13.51       | 14.91        |
| 20          | Low           | QPSK       | 17.97       | 20.09        |
|             | Low           | 16QAM      | 18.01       | 19.82        |
|             | Mid           | QPSK       | 17.97       | 19.76        |
|             | Mid           | 16QAM      | 17.96       | 19.76        |
|             | High          | QPSK       | 17.96       | 19.78        |
|             | High          | 16QAM      | 18.02       | 19.86        |



Band2 / 1.4MHz / QPSK/ Low CH



Band2 / 1.4MHz / 16QAM/ Low CH



Band2 / 1.4MHz / QPSK/ Mid CH



Band2 / 1.4MHz / 16QAM/ Mid CH



Band2 / 1.4MHz / QPSK/ High CH



Band2 / 1.4MHz / 16QAM/ High CH



Band2 / 3MHz / QPSK/ Low CH



Band2 / 3MHz / 16QAM/ Low CH



Band2 / 3MHz / QPSK/ Mid CH



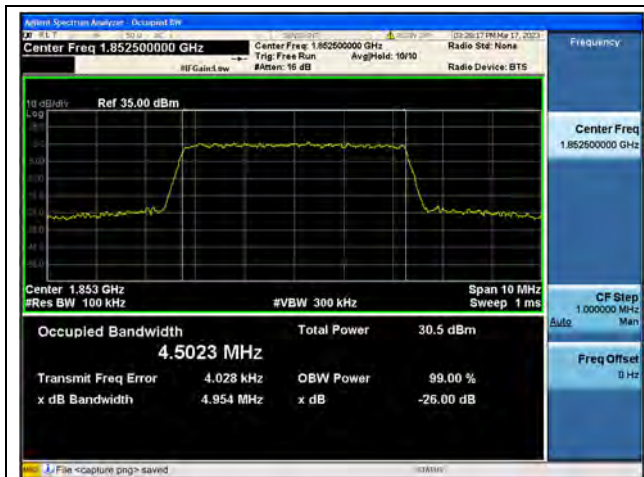
Band2 / 3MHz / 16QAM/ Mid CH



Band2 / 3MHz / QPSK/ High CH



Band2 / 3MHz / 16QAM/ High CH



Band2 / 5MHz / QPSK/ Low CH



Band2 / 5MHz / 16QAM/ Low CH



Band2 / 5MHz / QPSK/ Mid CH



Band2 / 5MHz / 16QAM/ Mid CH



Band2 / 5MHz / QPSK/ High CH



Band2 / 5MHz / 16QAM/ High CH



Band2 / 10MHz / QPSK/ Low CH



Band2 / 10MHz / 16QAM/ Low CH



Band2 / 10MHz / QPSK/ Mid CH



Band2 / 10MHz / 16QAM/ Mid CH



Band2 / 10MHz / QPSK/ High CH



Band2 / 10MHz / 16QAM/ High CH



Band2 / 15MHz / QPSK/ Low CH



Band2 / 15MHz / 16QAM/ Low CH



Band2 / 15MHz / QPSK/ Mid CH



Band2 / 15MHz / 16QAM/ Mid CH



Band2 / 15MHz / QPSK/ High CH



Band2 / 15MHz / 16QAM/ High CH



Band2 / 20MHz / QPSK/ Low CH



Band2 / 20MHz / 16QAM/ Low CH



Band2 / 20MHz / QPSK/ Mid CH



Band2 / 20MHz / 16QAM/ Mid CH



Band2 / 20MHz / QPSK/ High CH



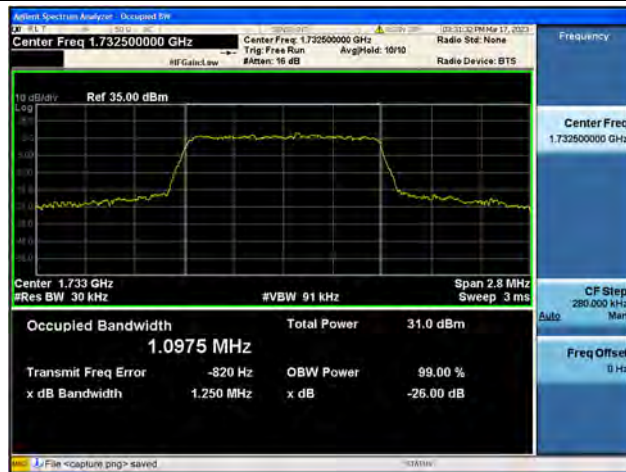
Band2 / 20MHz / 16QAM/ High CH



Band4 / 1.4MHz / QPSK/ Low CH



Band4 / 1.4MHz / 16QAM/ Low CH



Band4 / 1.4MHz / QPSK/ Mid CH



Band4 / 1.4MHz / 16QAM/ Mid CH



Band4 / 1.4MHz / QPSK/ High CH



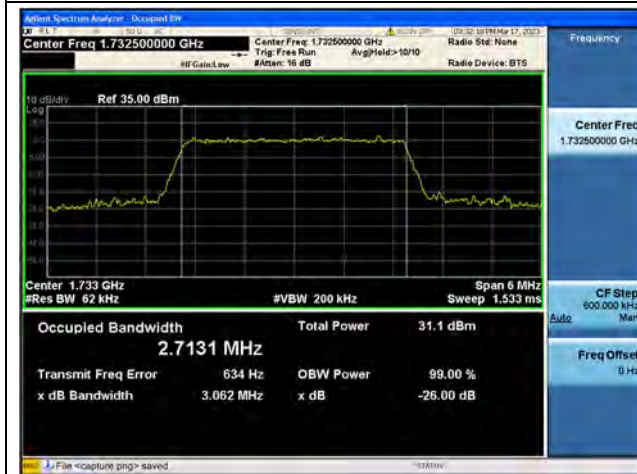
Band4 / 1.4MHz / 16QAM/ High CH



Band4 / 3MHz / QPSK/ Low CH



Band4 / 3MHz / 16QAM/ Low CH



Band4 / 3MHz / QPSK/ Mid CH



Band4 / 3MHz / 16QAM/ Mid CH



Band4 / 3MHz / QPSK/ High CH



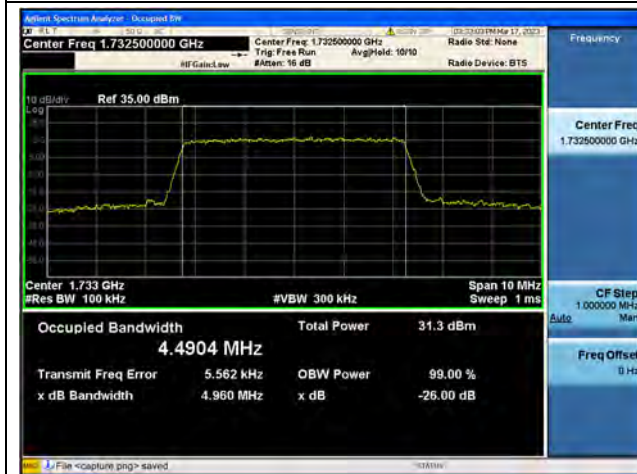
Band4 / 3MHz / 16QAM/ High CH



Band4 / 5MHz / QPSK/ Low CH



Band4 / 5MHz / 16QAM/ Low CH



Band4 / 5MHz / QPSK/ Mid CH



Band4 / 5MHz / 16QAM/ Mid CH



Band4 / 5MHz / QPSK/ High CH



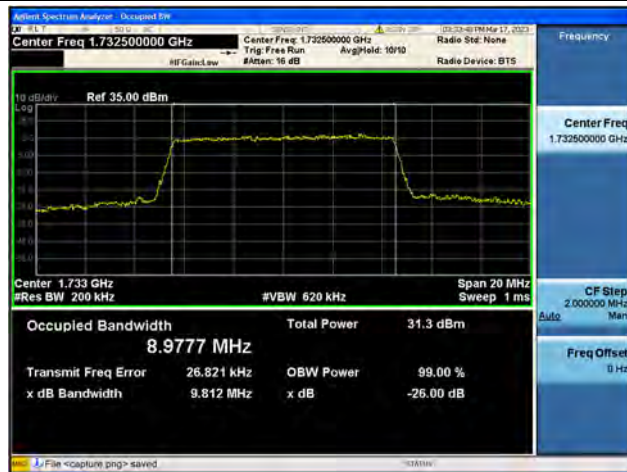
Band4 / 5MHz / 16QAM/ High CH



Band4 / 10MHz / QPSK/ Low CH



Band4 / 10MHz / 16QAM/ Low CH



Band4 / 10MHz / QPSK/ Mid CH



Band4 / 10MHz / 16QAM/ Mid CH



Band4 / 10MHz / QPSK/ High CH



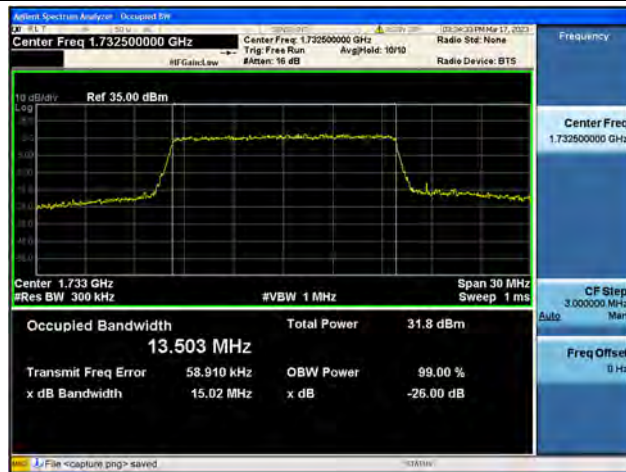
Band4 / 10MHz / 16QAM/ High CH



Band4 / 15MHz / QPSK/ Low CH



Band4 / 15MHz / 16QAM/ Low CH



Band4 / 15MHz / QPSK/ Mid CH



Band4 / 15MHz / 16QAM/ Mid CH



Band4 / 15MHz / QPSK/ High CH



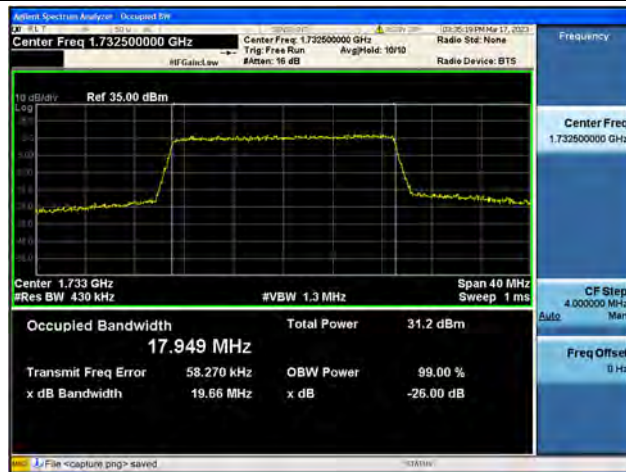
Band4 / 15MHz / 16QAM/ High CH



Band4 / 20MHz / QPSK/ Low CH



Band4 / 20MHz / 16QAM/ Low CH



Band4 / 20MHz / QPSK/ Mid CH



Band4 / 20MHz / 16QAM/ Mid CH



Band4 / 20MHz / QPSK/ High CH



Band4 / 20MHz / 16QAM/ High CH



Band5 / 1.4MHz / QPSK/ Low CH



Band5 / 1.4MHz / 16QAM/ Low CH



Band5 / 1.4MHz / QPSK/ Mid CH



Band5 / 1.4MHz / 16QAM/ Mid CH



Band5 / 1.4MHz / QPSK/ High CH



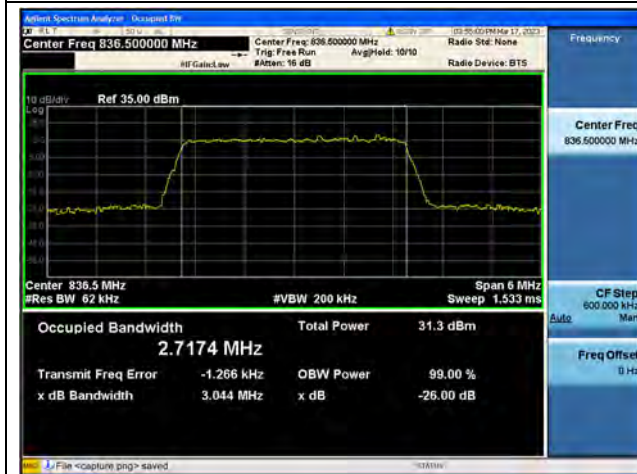
Band5 / 1.4MHz / 16QAM/ High CH



Band5 / 3MHz / QPSK/ Low CH



Band5 / 3MHz / 16QAM/ Low CH



Band5 / 3MHz / QPSK/ Mid CH



Band5 / 3MHz / 16QAM/ Mid CH



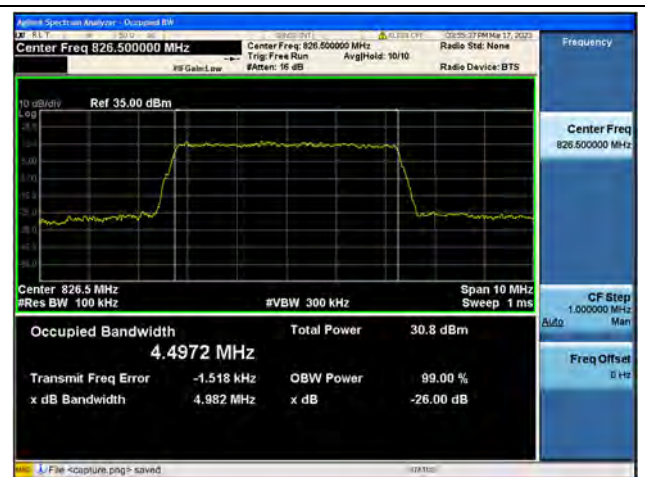
Band5 / 3MHz / QPSK/ High CH



Band5 / 3MHz / 16QAM/ High CH



Band5 / 5MHz / QPSK/ Low CH



Band5 / 5MHz / 16QAM/ Low CH



Band5 / 5MHz / QPSK/ Mid CH



Band5 / 5MHz / 16QAM/ Mid CH



Band5 / 5MHz / QPSK/ High CH



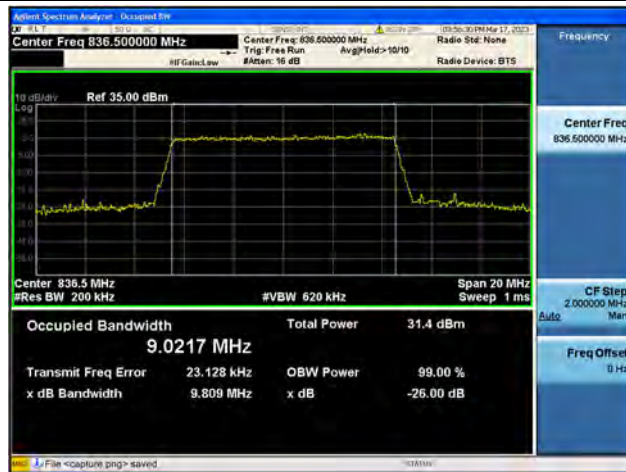
Band5 / 5MHz / 16QAM/ High CH



Band5 / 10MHz / QPSK/ Low CH



Band5 / 10MHz / 16QAM/ Low CH



Band5 / 10MHz / QPSK/ Mid CH



Band5 / 10MHz / 16QAM/ Mid CH



Band5 / 10MHz / QPSK/ High CH



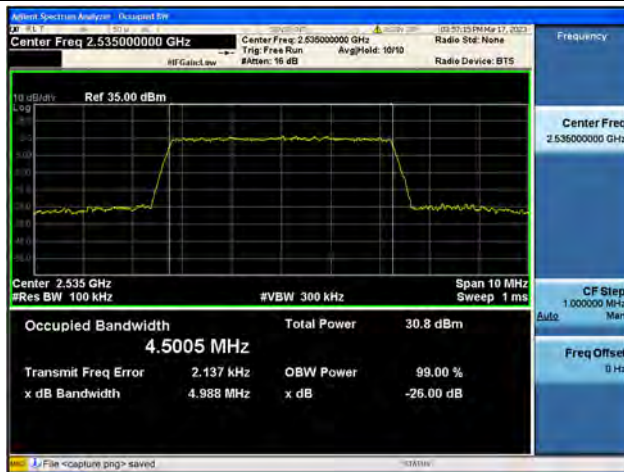
Band5 / 10MHz / 16QAM/ High CH



Band7 / 5MHz / QPSK/ Low CH



Band7 / 5MHz / 16QAM/ Low CH



Band7 / 5MHz / QPSK/ Mid CH



Band7 / 5MHz / 16QAM/ Mid CH



Band7 / 5MHz / QPSK/ High CH



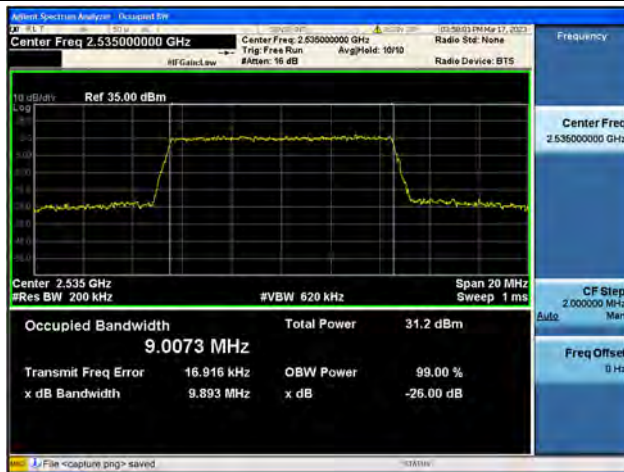
Band7 / 5MHz / 16QAM/ High CH



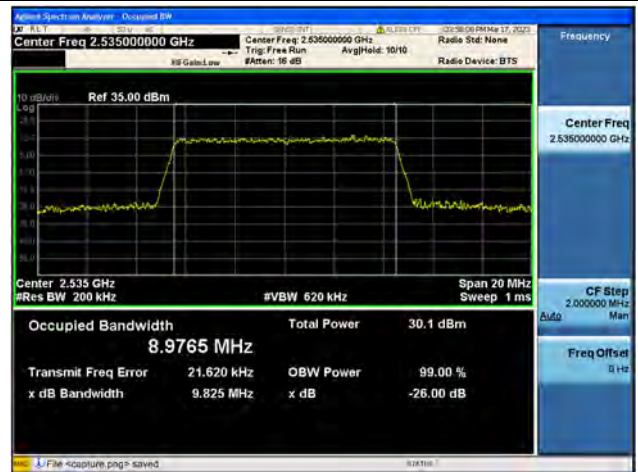
Band7 / 10MHz / QPSK/ Low CH



Band7 / 10MHz / 16QAM/ Low CH



Band7 / 10MHz / QPSK/ Mid CH



Band7 / 10MHz / 16QAM/ Mid CH



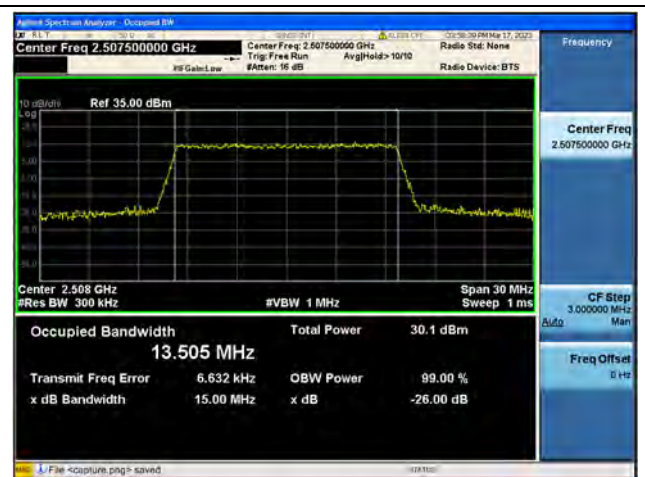
Band7 / 10MHz / QPSK/ High CH



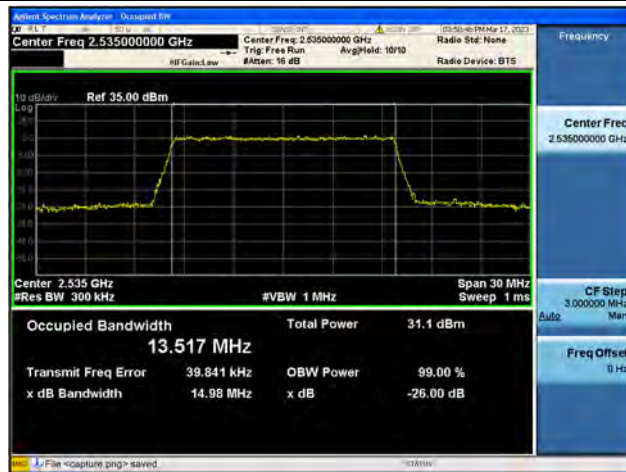
Band7 / 10MHz / 16QAM/ High CH



Band7 / 15MHz / QPSK/ Low CH



Band7 / 15MHz / 16QAM/ Low CH



Band7 / 15MHz / QPSK/ Mid CH



Band7 / 15MHz / 16QAM/ Mid CH



Band7 / 15MHz / QPSK/ High CH



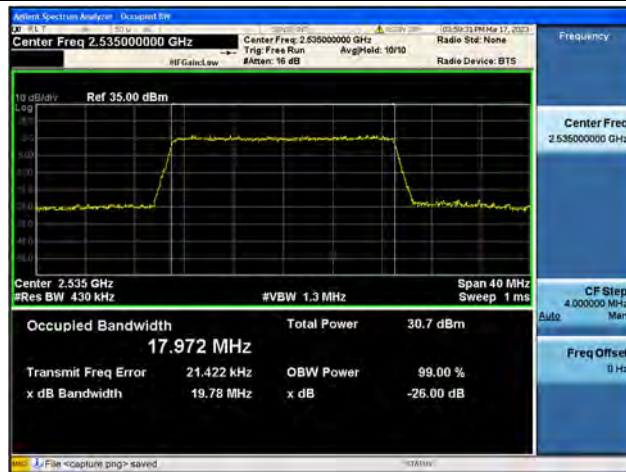
Band7 / 15MHz / 16QAM/ High CH



Band7 / 20MHz / QPSK/ Low CH



Band7 / 20MHz / 16QAM/ Low CH



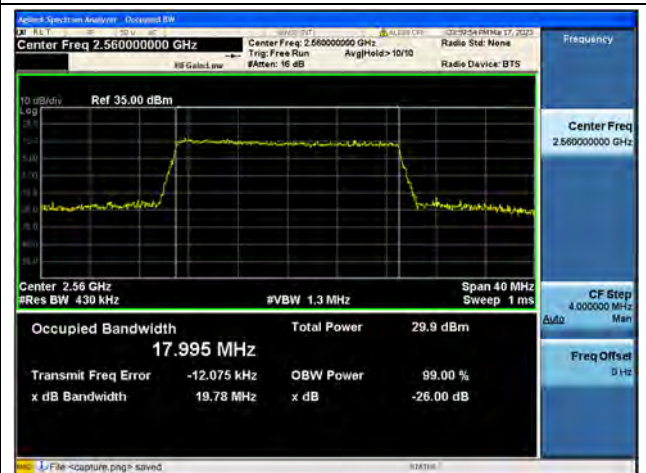
Band7 / 20MHz / QPSK/ Mid CH



Band7 / 20MHz / 16QAM/ Mid CH



Band7 / 20MHz / QPSK/ High CH



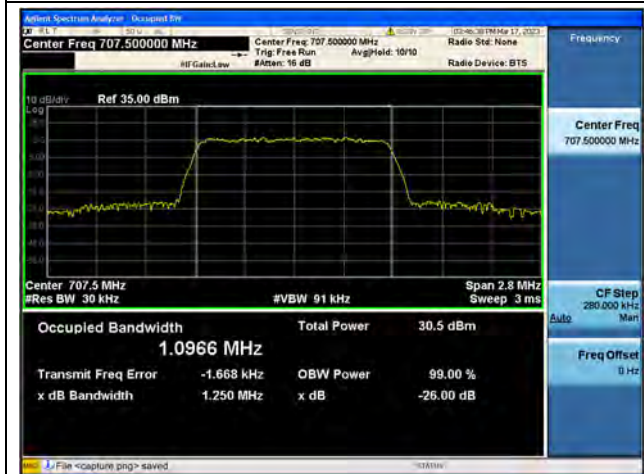
Band7 / 20MHz / 16QAM/ High CH



Band12 / 1.4MHz / QPSK/ Low CH



Band12 / 1.4MHz / 16QAM/ Low CH



Band12 / 1.4MHz / QPSK/ Mid CH



Band12 / 1.4MHz / 16QAM/ Mid CH



Band12 / 1.4MHz / QPSK/ High CH



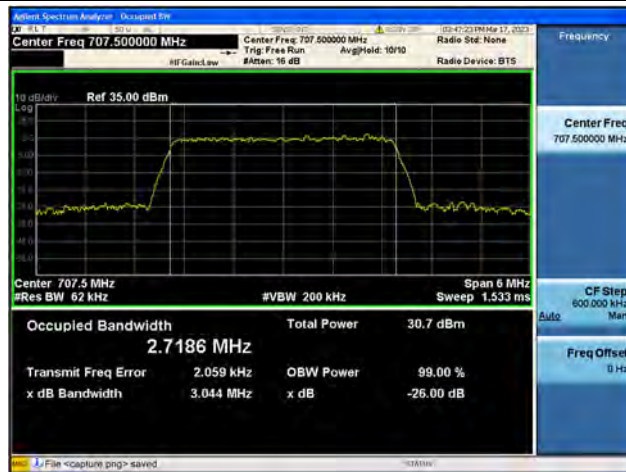
Band12 / 1.4MHz / 16QAM/ High CH



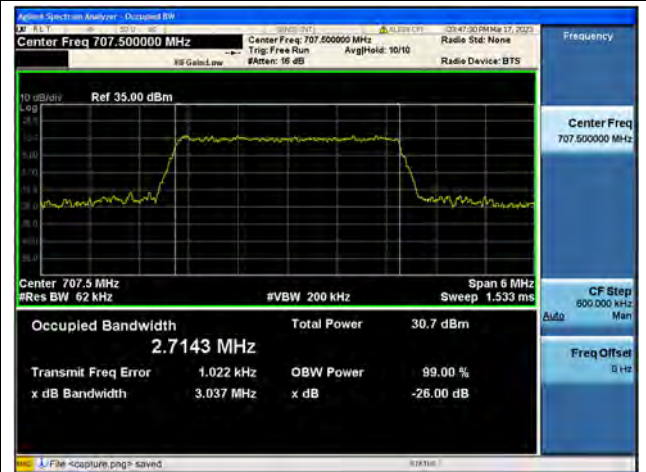
Band12 / 3MHz / QPSK/ Low CH



Band12 / 3MHz / 16QAM/ Low CH



Band12 / 3MHz / QPSK/ Mid CH



Band12 / 3MHz / 16QAM/ Mid CH



Band12 / 3MHz / QPSK/ High CH



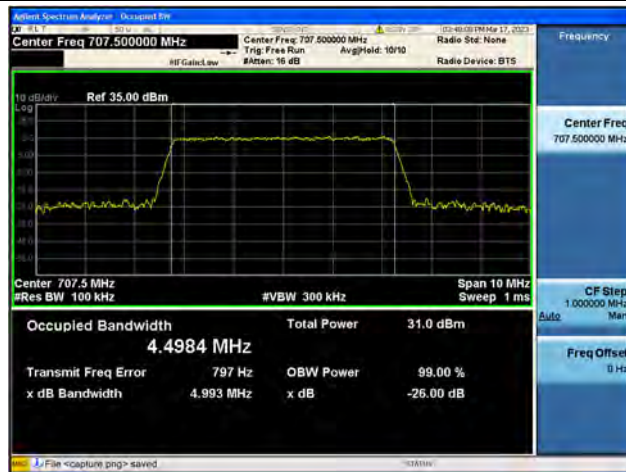
Band12 / 3MHz / 16QAM/ High CH



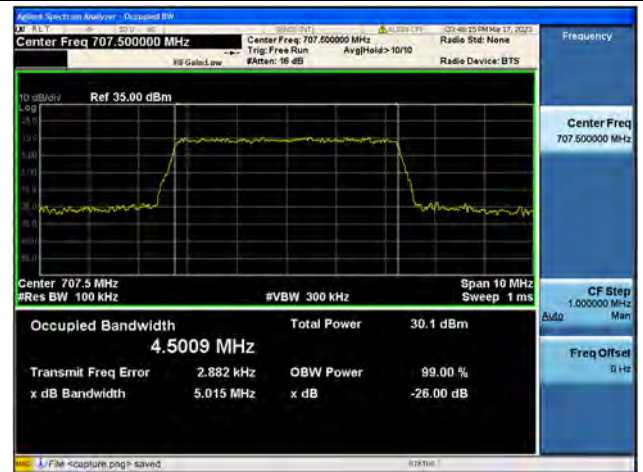
Band12 / 5MHz / QPSK/ Low CH



Band12 / 5MHz / 16QAM/ Low CH



Band12 / 5MHz / QPSK/ Mid CH



Band12 / 5MHz / 16QAM/ Mid CH



Band12 / 5MHz / QPSK/ High CH



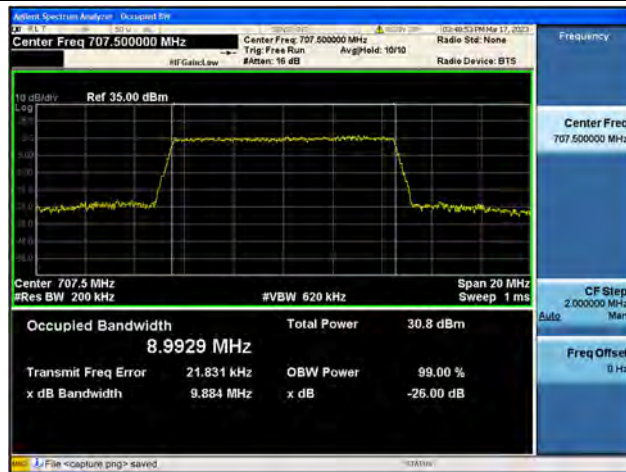
Band12 / 5MHz / 16QAM/ High CH



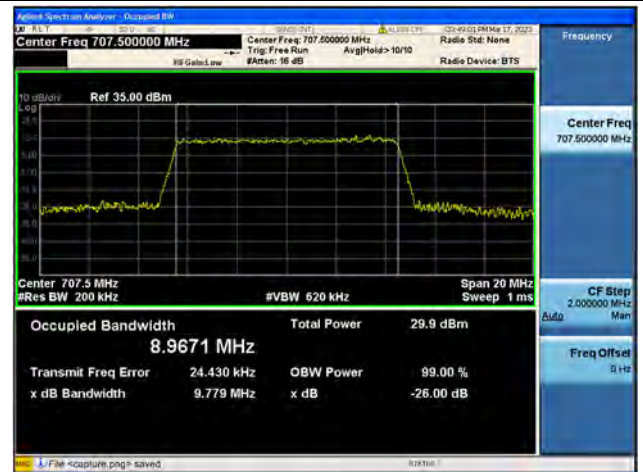
Band12 / 10MHz / QPSK/ Low CH



Band12 / 10MHz / 16QAM/ Low CH



Band12 / 10MHz / QPSK/ Mid CH



Band12 / 10MHz / 16QAM/ Mid CH



Band12 / 10MHz / QPSK/ High CH



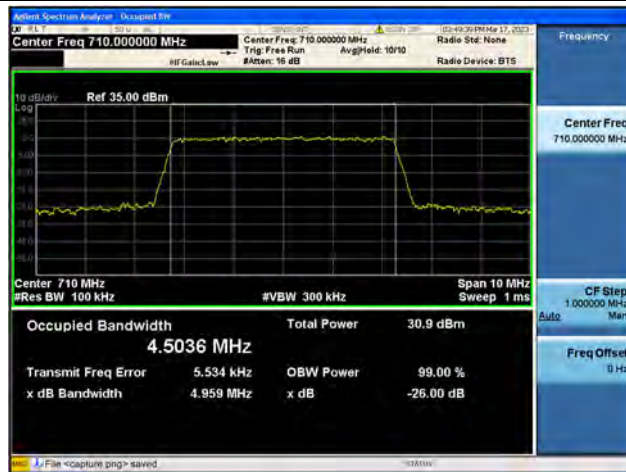
Band12 / 10MHz / 16QAM/ High CH



Band17 / 5MHz / QPSK/ Low CH



Band17 / 5MHz / 16QAM/ Low CH



Band17 / 5MHz / QPSK/ Mid CH



Band17 / 5MHz / 16QAM/ Mid CH



Band17 / 5MHz / QPSK/ High CH



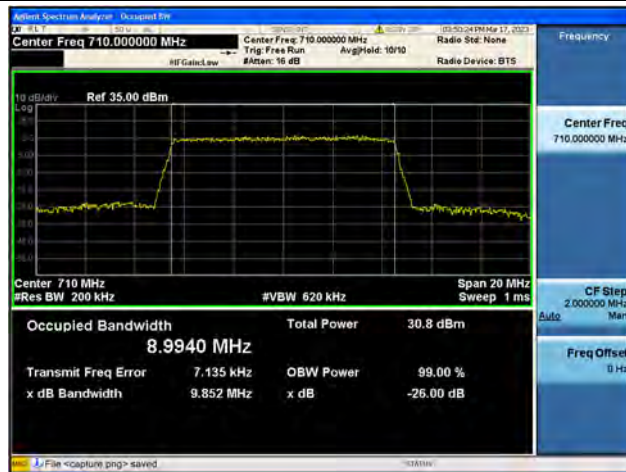
Band17 / 5MHz / 16QAM/ High CH



Band17 / 10MHz / QPSK/ Low CH



Band17 / 10MHz / 16QAM/ Low CH



Band17 / 10MHz / QPSK/ Mid CH



Band17 / 10MHz / 16QAM/ Mid CH



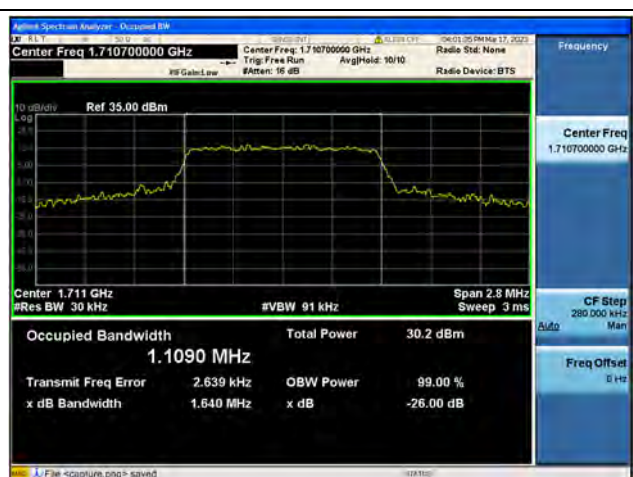
Band17 / 10MHz / QPSK/ High CH



Band17 / 10MHz / 16QAM/ High CH



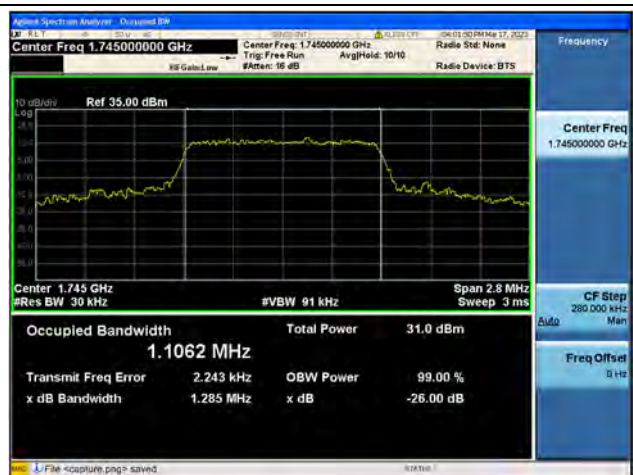
Band66 / 1.4MHz / QPSK/ Low CH



Band66 / 1.4MHz / 16QAM/ Low CH



Band66 / 1.4MHz / QPSK/ Mid CH



Band66 / 1.4MHz / 16QAM/ Mid CH



Band66 / 1.4MHz / QPSK/ High CH



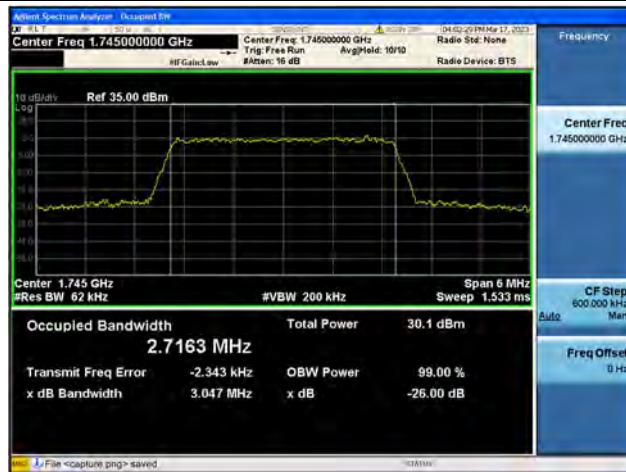
Band66 / 1.4MHz / 16QAM/ High CH



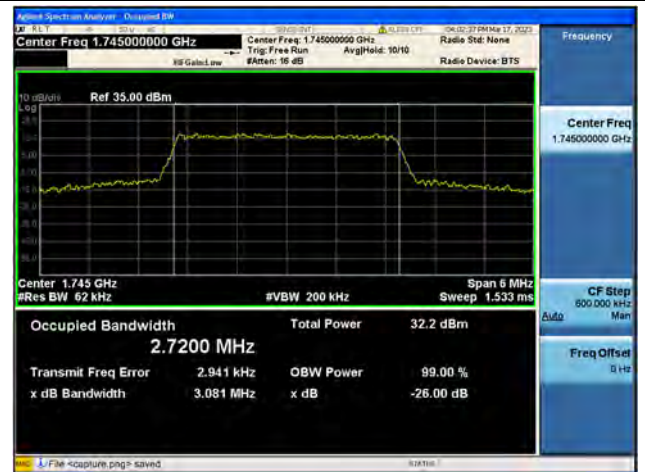
Band66 / 3MHz / QPSK/ Low CH



Band66 / 3MHz / 16QAM/ Low CH



Band66 / 3MHz / QPSK/ Mid CH



Band66 / 3MHz / 16QAM/ Mid CH



Band66 / 3MHz / QPSK/ High CH



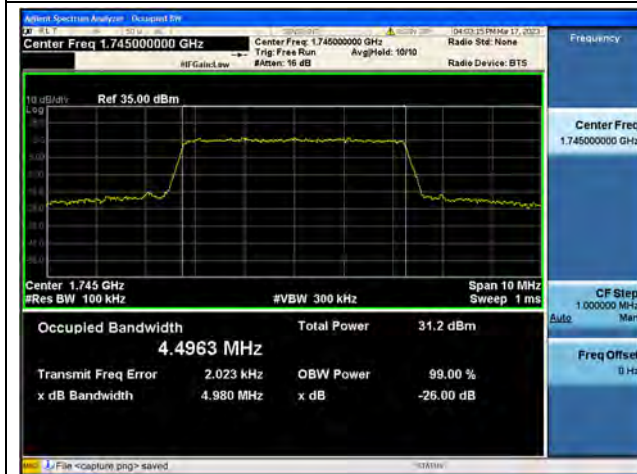
Band66 / 3MHz / 16QAM/ High CH



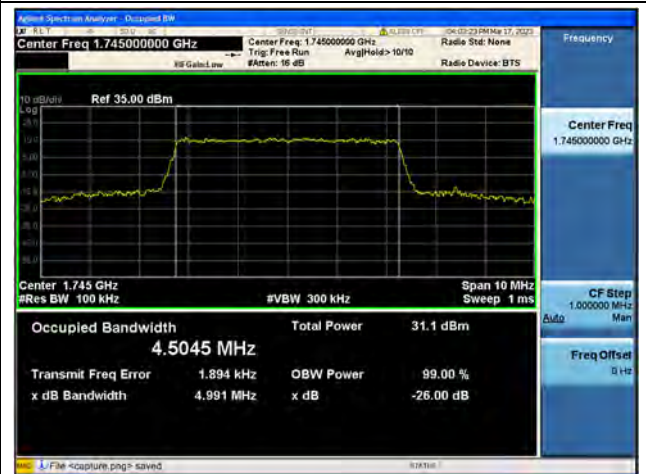
Band66 / 5MHz / QPSK/ Low CH



Band66 / 5MHz / 16QAM/ Low CH



Band66 / 5MHz / QPSK/ Mid CH



Band66 / 5MHz / 16QAM/ Mid CH



Band66 / 5MHz / QPSK/ High CH



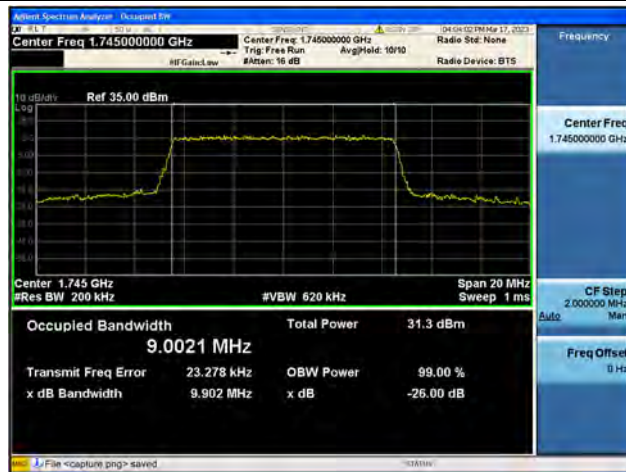
Band66 / 5MHz / 16QAM/ High CH



Band66 / 10MHz / QPSK/ Low CH



Band66 / 10MHz / 16QAM/ Low CH



Band66 / 10MHz / QPSK/ Mid CH



Band66 / 10MHz / 16QAM/ Mid CH



Band66 / 10MHz / QPSK/ High CH



Band66 / 10MHz / 16QAM/ High CH



Band66 / 15MHz / QPSK/ Low CH



Band66 / 15MHz / 16QAM/ Low CH



Band66 / 15MHz / QPSK/ Mid CH



Band66 / 15MHz / 16QAM/ Mid CH



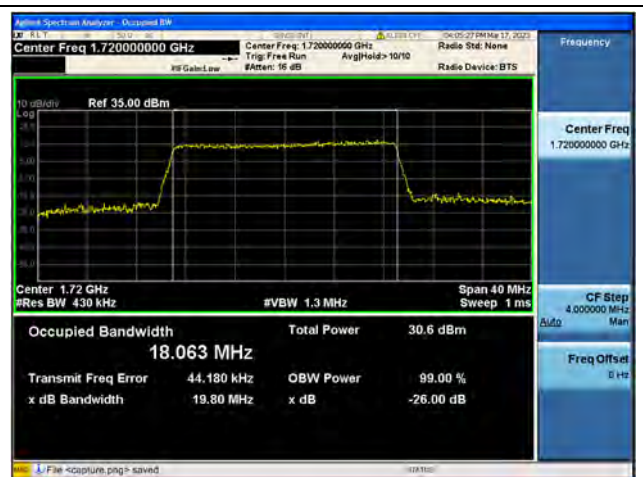
Band66 / 15MHz / QPSK/ High CH



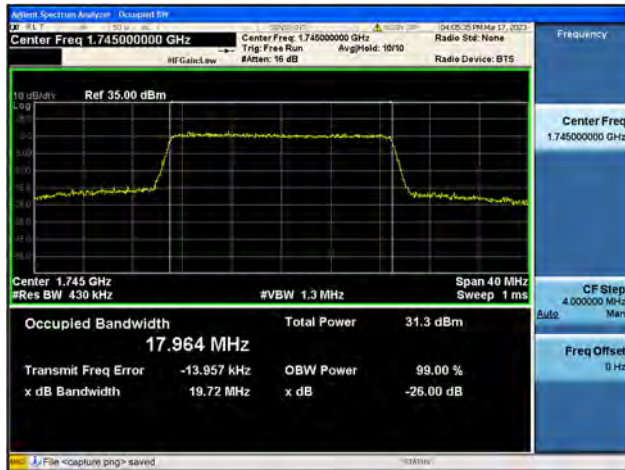
Band66 / 15MHz / 16QAM/ High CH



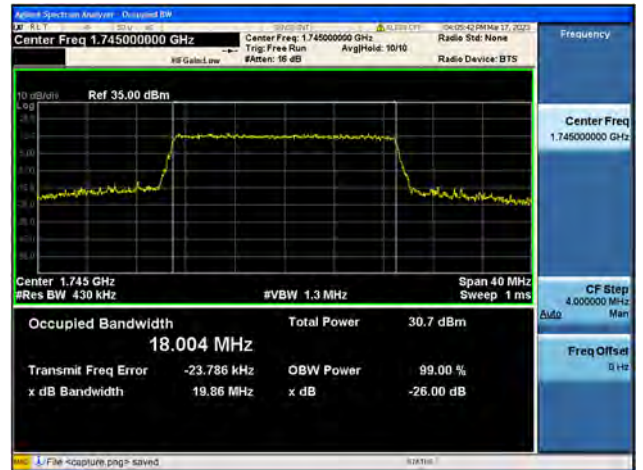
Band66 / 20MHz / QPSK/ Low CH



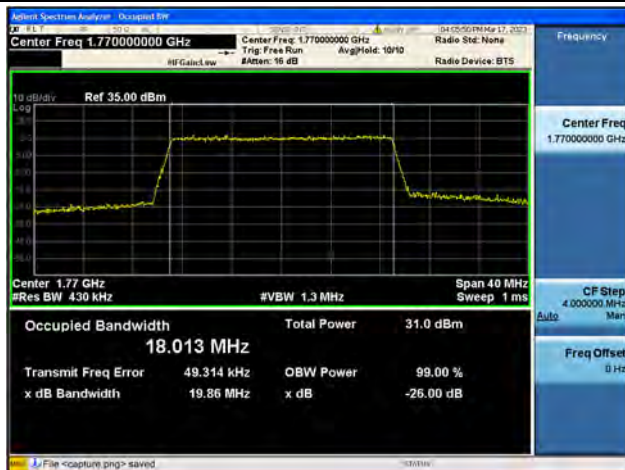
Band66 / 20MHz / 16QAM/ Low CH



Band66 / 20MHz / QPSK/ Mid CH



Band66 / 20MHz / 16QAM/ Mid CH



Band66 / 20MHz / QPSK/ High CH



Band66 / 20MHz / 16QAM/ High CH



Band71 / 5MHz / QPSK/ Low CH



Band71 / 5MHz / 16QAM/ Low CH



Band71 / 5MHz / QPSK/ Mid CH



Band71 / 5MHz / 16QAM/ Mid CH



Band71 / 5MHz / QPSK/ High CH



Band71 / 5MHz / 16QAM/ High CH



Band71 / 10MHz / QPSK/ Low CH



Band71 / 10MHz / 16QAM/ Low CH



Band71 / 10MHz / QPSK/ Mid CH



Band71 / 10MHz / 16QAM/ Mid CH



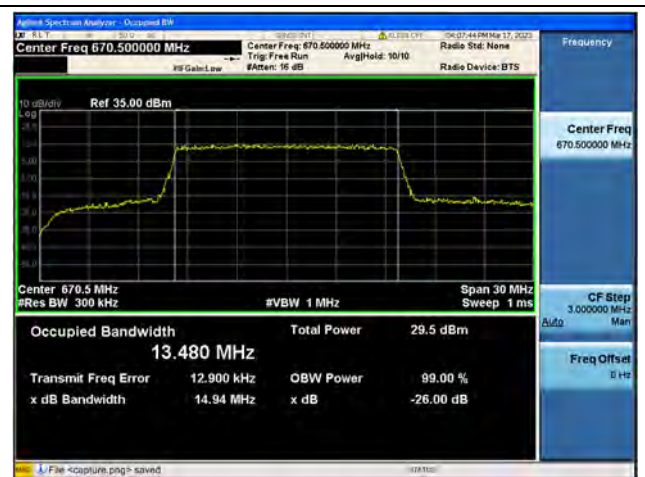
Band71 / 10MHz / QPSK/ High CH



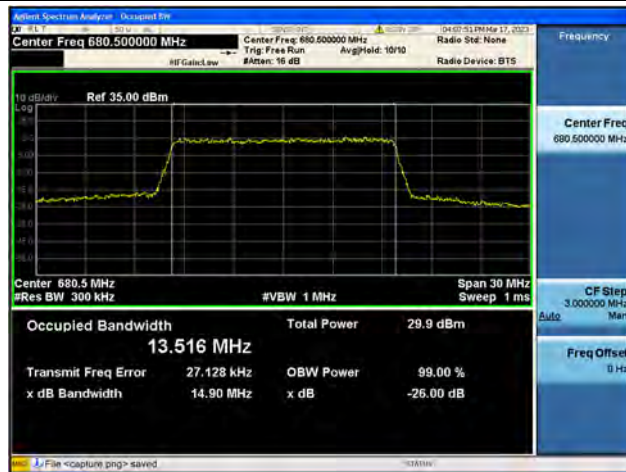
Band71 / 10MHz / 16QAM/ High CH



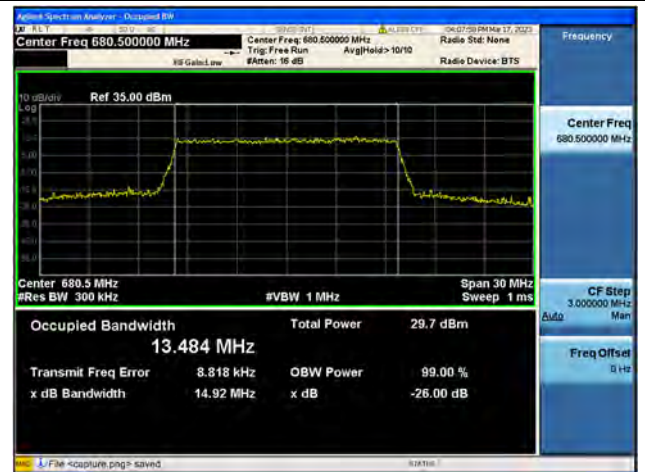
Band71 / 15MHz / QPSK/ Low CH



Band71 / 15MHz / 16QAM/ Low CH



Band71 / 15MHz / QPSK/ Mid CH



Band71 / 15MHz / 16QAM/ Mid CH



Band71 / 15MHz / QPSK/ High CH



Band71 / 15MHz / 16QAM/ High CH



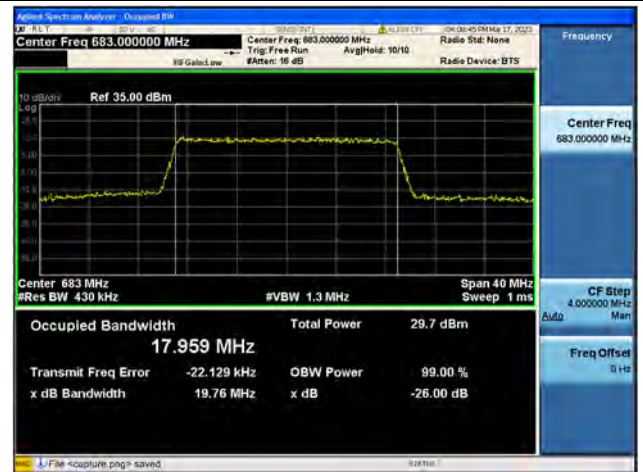
Band71 / 20MHz / QPSK/ Low CH



Band71 / 20MHz / 16QAM/ Low CH



Band71 / 20MHz / QPSK/ Mid CH



Band71 / 20MHz / 16QAM/ Mid CH



Band71 / 20MHz / QPSK/ High CH



Band71 / 20MHz / 16QAM/ High CH

## 2.3. Frequency Stability

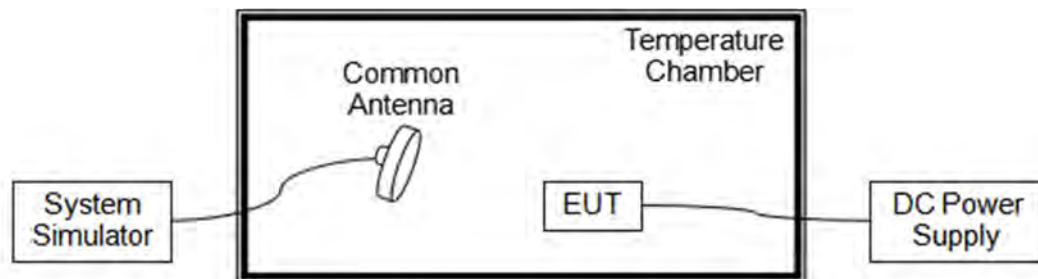
### 2.3.1. Requirement

According to FCC section 2.1055, 24.235, 27.54, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  at intervals of not more than  $10^{\circ}\text{C}$ .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

**Note:** The operating temperature of EUT is from  $-10^{\circ}\text{C}$  to  $55^{\circ}\text{C}$ , which are specified by the applicant.

### 2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

### 2.3.3. Test Procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.



### 2.3.4. Test Result

The nominal, highest and lowest extreme voltages are separately 3.80V, 4.35V and 3.40V, which are specified by the applicant; the normal temperature here used is 20°C.

| LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz |             |          |                |                 |        |
|------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Limit =Within Authorized Band                        |             |          |                |                 |        |
| Voltage (%)                                          | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                               | 3.80        | +20(Ref) | -5             | -0.003          | PASS   |
| Normal                                               |             | -10      | 19             | 0.010           |        |
| Normal                                               |             | 0        | 20             | 0.011           |        |
| Normal                                               |             | +10      | 19             | 0.010           |        |
| Normal                                               |             | +20      | -12            | -0.006          |        |
| Normal                                               |             | +30      | 14             | 0.007           |        |
| Normal                                               |             | +40      | -11            | -0.006          |        |
| Normal                                               |             | +50      | 16             | 0.009           |        |
| Normal                                               |             | +55      | 16             | 0.009           |        |
| High                                                 | 4.35        | +20      | -9             | -0.005          |        |
| BATT.ENDPOINT                                        | 3.40        | +20      | 15             | 0.008           |        |

| LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz |             |          |                |                 |        |
|------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Limit =Within Authorized Band                        |             |          |                |                 |        |
| Voltage (%)                                          | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                               | 3.80        | +20(Ref) | -13            | -0.008          | PASS   |
| Normal                                               |             | -10      | 21             | 0.012           |        |
| Normal                                               |             | 0        | 20             | 0.012           |        |
| Normal                                               |             | +10      | -8             | -0.005          |        |
| Normal                                               |             | +20      | 16             | 0.009           |        |
| Normal                                               |             | +30      | 6              | 0.003           |        |
| Normal                                               |             | +40      | 13             | 0.008           |        |
| Normal                                               |             | +50      | 15             | 0.009           |        |
| Normal                                               |             | +55      | 8              | 0.005           |        |
| High                                                 | 4.35        | +20      | 14             | 0.008           |        |
| BATT.ENDPOINT                                        | 3.40        | +20      | 20             | 0.012           |        |



| LTE Band 5, QPSK, Channel 20525, Frequency 836.5MHz<br>Limit=±2.5ppm |             |          |                |                 |        |
|----------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                          | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                               | 3.80        | +20(Ref) | 13             | 0.016           | PASS   |
| Normal                                                               |             | -10      | 2              | 0.002           |        |
| Normal                                                               |             | 0        | 19             | 0.023           |        |
| Normal                                                               |             | +10      | -10            | -0.012          |        |
| Normal                                                               |             | +20      | 13             | 0.016           |        |
| Normal                                                               |             | +30      | -15            | -0.018          |        |
| Normal                                                               |             | +40      | 5              | 0.006           |        |
| Normal                                                               |             | +50      | 19             | 0.023           |        |
| Normal                                                               |             | +55      | 19             | 0.023           |        |
| High                                                                 | 4.35        | +20      | 16             | 0.019           |        |
| BATT.ENDPOINT                                                        | 3.40        | +20      | 16             | 0.019           |        |

| LTE Band 7, 16QAM, Channel 21100, Frequency 2535.0MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|----------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                            | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                 | 3.80        | +20(Ref) | 14             | 0.006           | PASS   |
| Normal                                                                                 |             | -10      | 14             | 0.006           |        |
| Normal                                                                                 |             | 0        | 6              | 0.002           |        |
| Normal                                                                                 |             | +10      | 17             | 0.007           |        |
| Normal                                                                                 |             | +20      | 19             | 0.007           |        |
| Normal                                                                                 |             | +30      | 13             | 0.005           |        |
| Normal                                                                                 |             | +40      | 20             | 0.008           |        |
| Normal                                                                                 |             | +50      | -6             | -0.002          |        |
| Normal                                                                                 |             | +55      | 14             | 0.006           |        |
| High                                                                                   | 4.35        | +20      | 19             | 0.007           |        |
| BATT.ENDPOINT                                                                          | 3.40        | +20      | 17             | 0.007           |        |



| LTE Band 12, QPSK, Channel 23095, Frequency 707.5MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                | 3.80        | +20(Ref) | 22             | 0.031           | PASS   |
| Normal                                                                                |             | -10      | -6             | -0.008          |        |
| Normal                                                                                |             | 0        | 15             | 0.021           |        |
| Normal                                                                                |             | +10      | 16             | 0.023           |        |
| Normal                                                                                |             | +20      | 12             | 0.017           |        |
| Normal                                                                                |             | +30      | 13             | 0.018           |        |
| Normal                                                                                |             | +40      | 13             | 0.018           |        |
| Normal                                                                                |             | +50      | 13             | 0.018           |        |
| Normal                                                                                |             | +55      | 12             | 0.017           |        |
| High                                                                                  | 4.35        | +20      | 18             | 0.025           |        |
| BATT.ENDPOINT                                                                         | 3.40        | +20      | 15             | 0.021           |        |

| LTE Band 17, QPSK, Channel 23790, Frequency 710MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|-------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                         | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                              | 3.80        | +20(Ref) | 13             | 0.018           | PASS   |
| Normal                                                                              |             | -10      | 16             | 0.023           |        |
| Normal                                                                              |             | 0        | 17             | 0.024           |        |
| Normal                                                                              |             | +10      | 13             | 0.018           |        |
| Normal                                                                              |             | +20      | -21            | -0.030          |        |
| Normal                                                                              |             | +30      | 3              | 0.004           |        |
| Normal                                                                              |             | +40      | 15             | 0.021           |        |
| Normal                                                                              |             | +50      | 20             | 0.028           |        |
| Normal                                                                              |             | +55      | 14             | 0.020           |        |
| High                                                                                | 4.35        | +20      | -11            | -0.015          |        |
| BATT.ENDPOINT                                                                       | 3.40        | +20      | 19             | 0.027           |        |



| LTE Band 66, QPSK, Channel 132322, Frequency 1745.0MHz<br>Limit =Within Authorized Band |             |           |                |                 |        |
|-----------------------------------------------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                                                             | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                  | 3.80        | +20(Ref)  | 17             | 0.010           | PASS   |
| Normal                                                                                  |             | -10       | 16             | 0.009           |        |
| Normal                                                                                  |             | 0         | 17             | 0.010           |        |
| Normal                                                                                  |             | +10       | -23            | -0.013          |        |
| Normal                                                                                  |             | +20       | 9              | 0.005           |        |
| Normal                                                                                  |             | +30       | 13             | 0.007           |        |
| Normal                                                                                  |             | +40       | 17             | 0.010           |        |
| Normal                                                                                  |             | +50       | -4             | -0.002          |        |
| Normal                                                                                  |             | +55       | 13             | 0.007           |        |
| High                                                                                    | 4.35        | +20       | 20             | 0.011           |        |
| BATT.ENDPOINT                                                                           | 3.40        | +20       | 19             | 0.011           |        |

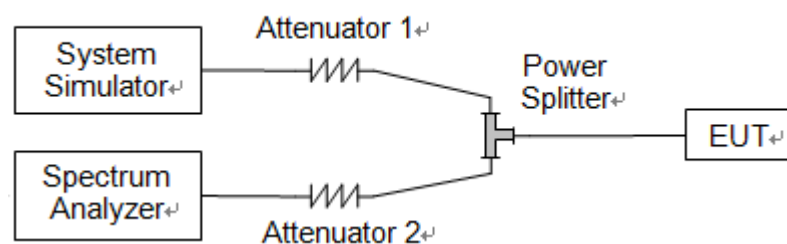
| LTE Band 71, 64QAM, Channel 133322, Frequency 683.0MHz<br>Limit =Within Authorized Band |             |           |                |                 |        |
|-----------------------------------------------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                                                             | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                  | 3.80        | +20(Ref)  | 20             | 0.029           | PASS   |
| Normal                                                                                  |             | -10       | 13             | 0.019           |        |
| Normal                                                                                  |             | 0         | 15             | 0.022           |        |
| Normal                                                                                  |             | +10       | 12             | 0.018           |        |
| Normal                                                                                  |             | +20       | 17             | 0.025           |        |
| Normal                                                                                  |             | +30       | -19            | -0.028          |        |
| Normal                                                                                  |             | +40       | 1              | 0.001           |        |
| Normal                                                                                  |             | +50       | 18             | 0.026           |        |
| Normal                                                                                  |             | +55       | -23            | -0.034          |        |
| High                                                                                    | 4.35        | +20       | 10             | 0.015           |        |
| BATT.ENDPOINT                                                                           | 3.40        | +20       | 20             | 0.029           |        |

## 2.4. Peak to Average Ratio

### 2.4.1. Requirement

According to FCC section 24.232(d) and 27.50(d), the peak to average ratio (PAR) of the transmission may not exceed 13dB.

### 2.4.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.4.3. Test Procedure

KDB 971168 D01v03 Section 5.7 and ANSI/TIA-603-E-2016.

### 2.4.4. Test Result

Record the maximum PAPR level associated with a probability of 0.1%.



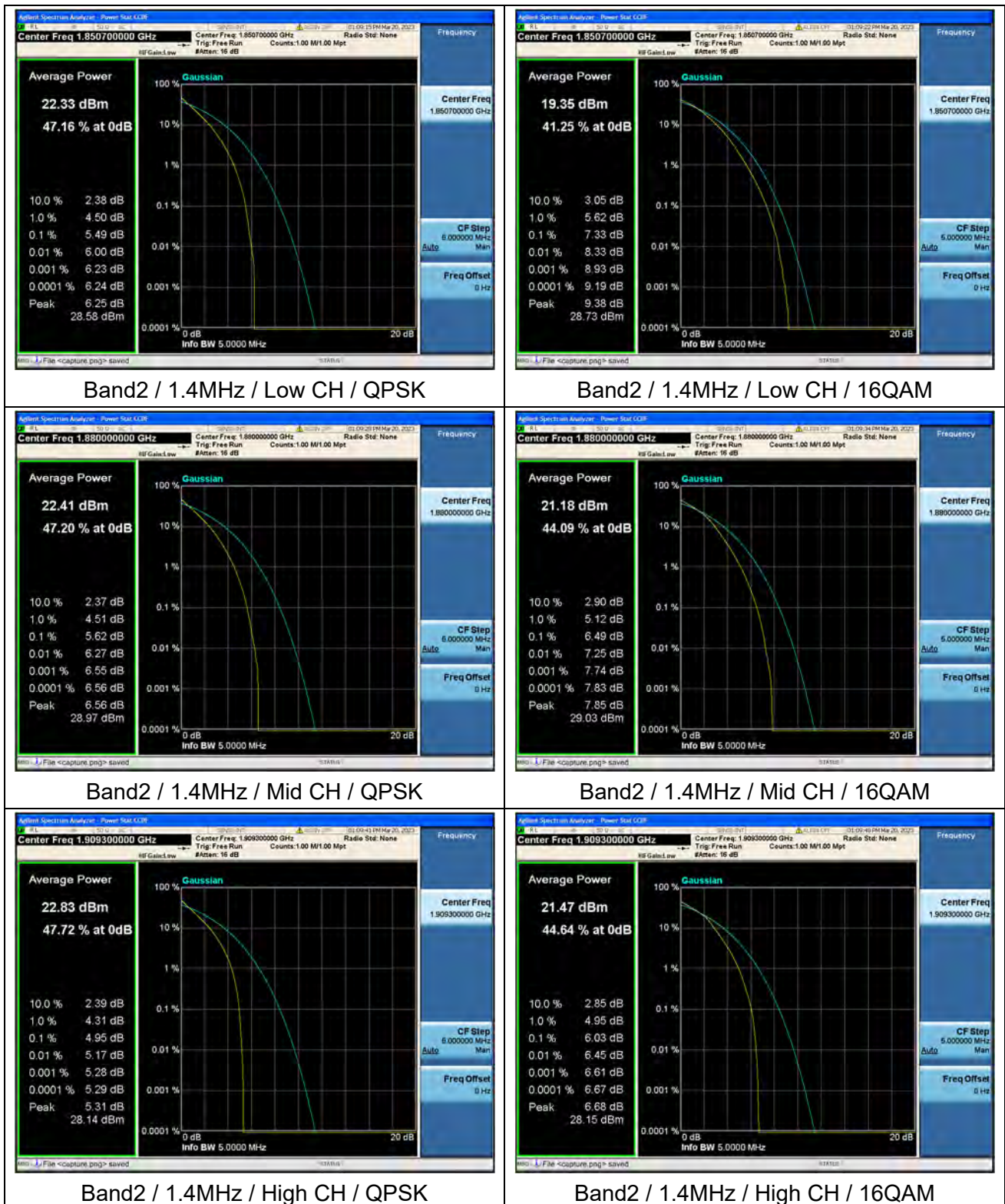
| LTE Band 2 |               |            |               |           |         |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)    | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4        | Low           | QPSK       | 5.49          | <=13      | PASS    |
|            | Low           | 16QAM      | 7.33          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.62          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.49          | <=13      | PASS    |
|            | High          | QPSK       | 4.95          | <=13      | PASS    |
|            | High          | 16QAM      | 6.03          | <=13      | PASS    |
| 3          | Low           | QPSK       | 5.49          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.81          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.59          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.49          | <=13      | PASS    |
|            | High          | QPSK       | 5.10          | <=13      | PASS    |
|            | High          | 16QAM      | 5.96          | <=13      | PASS    |
| 5          | Low           | QPSK       | 5.66          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.18          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.62          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.21          | <=13      | PASS    |
|            | High          | QPSK       | 5.33          | <=13      | PASS    |
|            | High          | 16QAM      | 5.96          | <=13      | PASS    |
| 10         | Low           | QPSK       | 5.64          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.25          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.64          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.25          | <=13      | PASS    |
|            | High          | QPSK       | 5.42          | <=13      | PASS    |
|            | High          | 16QAM      | 6.05          | <=13      | PASS    |
| 15         | Low           | QPSK       | 5.51          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.13          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.48          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.15          | <=13      | PASS    |
|            | High          | QPSK       | 5.31          | <=13      | PASS    |
|            | High          | 16QAM      | 6.01          | <=13      | PASS    |
| 20         | Low           | QPSK       | 5.58          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.29          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.53          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.23          | <=13      | PASS    |
|            | High          | QPSK       | 5.55          | <=13      | PASS    |
|            | High          | 16QAM      | 6.15          | <=13      | PASS    |



| LTE Band 4 |               |            |               |           |         |
|------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)    | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4        | Low           | QPSK       | 3.60          | <=13      | PASS    |
|            | Low           | 16QAM      | 4.28          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.31          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.25          | <=13      | PASS    |
|            | High          | QPSK       | 4.62          | <=13      | PASS    |
|            | High          | 16QAM      | 5.46          | <=13      | PASS    |
| 3          | Low           | QPSK       | 3.85          | <=13      | PASS    |
|            | Low           | 16QAM      | 4.52          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.30          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.13          | <=13      | PASS    |
|            | High          | QPSK       | 4.63          | <=13      | PASS    |
|            | High          | 16QAM      | 5.44          | <=13      | PASS    |
| 5          | Low           | QPSK       | 4.63          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.19          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.41          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.04          | <=13      | PASS    |
|            | High          | QPSK       | 4.94          | <=13      | PASS    |
|            | High          | 16QAM      | 5.50          | <=13      | PASS    |
| 10         | Low           | QPSK       | 5.12          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.80          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.39          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.07          | <=13      | PASS    |
|            | High          | QPSK       | 4.91          | <=13      | PASS    |
|            | High          | 16QAM      | 5.61          | <=13      | PASS    |
| 15         | Low           | QPSK       | 5.13          | <=13      | PASS    |
|            | Low           | 16QAM      | 5.83          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.24          | <=13      | PASS    |
|            | Mid           | 16QAM      | 5.96          | <=13      | PASS    |
|            | High          | QPSK       | 4.81          | <=13      | PASS    |
|            | High          | 16QAM      | 5.48          | <=13      | PASS    |
| 20         | Low           | QPSK       | 5.31          | <=13      | PASS    |
|            | Low           | 16QAM      | 6.12          | <=13      | PASS    |
|            | Mid           | QPSK       | 5.35          | <=13      | PASS    |
|            | Mid           | 16QAM      | 6.06          | <=13      | PASS    |
|            | High          | QPSK       | 4.93          | <=13      | PASS    |
|            | High          | 16QAM      | 5.65          | <=13      | PASS    |



| LTE Band 66 |               |            |               |           |         |
|-------------|---------------|------------|---------------|-----------|---------|
| BW(MHz)     | Channel Level | Modulation | PAR Radio(dB) | Limit(dB) | Verdict |
| 1.4         | Low           | QPSK       | 3.36          | <=13      | PASS    |
|             | Low           | 16QAM      | 4.22          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.49          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.44          | <=13      | PASS    |
|             | High          | QPSK       | 4.77          | <=13      | PASS    |
|             | High          | 16QAM      | 5.74          | <=13      | PASS    |
| 3           | Low           | QPSK       | 5.84          | <=13      | PASS    |
|             | Low           | 16QAM      | 4.55          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.63          | <=13      | PASS    |
|             | Mid           | 16QAM      | 4.98          | <=13      | PASS    |
|             | High          | QPSK       | 4.95          | <=13      | PASS    |
|             | High          | 16QAM      | 5.78          | <=13      | PASS    |
| 5           | Low           | QPSK       | 4.44          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.12          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.92          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.45          | <=13      | PASS    |
|             | High          | QPSK       | 5.27          | <=13      | PASS    |
|             | High          | 16QAM      | 6.21          | <=13      | PASS    |
| 10          | Low           | QPSK       | 5.08          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.76          | <=13      | PASS    |
|             | Mid           | QPSK       | 5.03          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.68          | <=13      | PASS    |
|             | High          | QPSK       | 5.47          | <=13      | PASS    |
|             | High          | 16QAM      | 6.10          | <=13      | PASS    |
| 15          | Low           | QPSK       | 5.13          | <=13      | PASS    |
|             | Low           | 16QAM      | 5.83          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.67          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.40          | <=13      | PASS    |
|             | High          | QPSK       | 5.33          | <=13      | PASS    |
|             | High          | 16QAM      | 6.01          | <=13      | PASS    |
| 20          | Low           | QPSK       | 5.34          | <=13      | PASS    |
|             | Low           | 16QAM      | 6.10          | <=13      | PASS    |
|             | Mid           | QPSK       | 4.92          | <=13      | PASS    |
|             | Mid           | 16QAM      | 5.65          | <=13      | PASS    |
|             | High          | QPSK       | 5.28          | <=13      | PASS    |
|             | High          | 16QAM      | 6.13          | <=13      | PASS    |

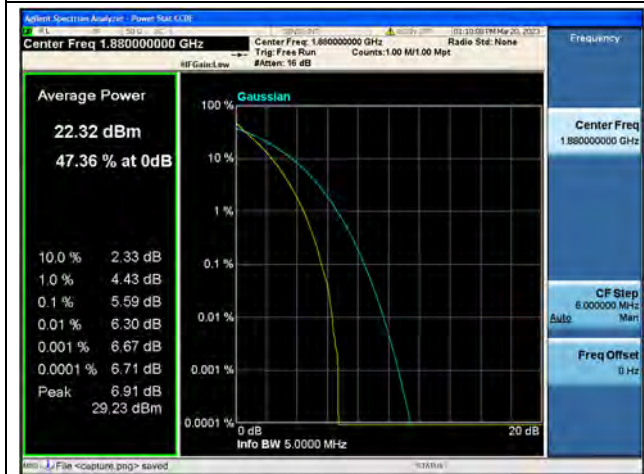




Band2 / 3MHz / Low CH / QPSK



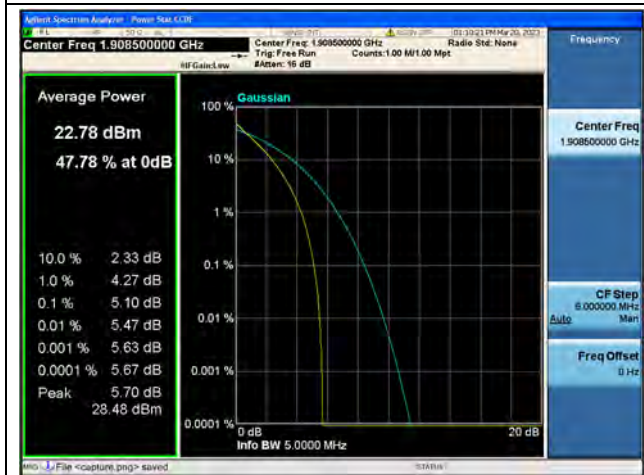
Band2 / 3MHz / Low CH / 16QAM



Band2 / 3MHz / Mid CH / QPSK



Band2 / 3MHz / Mid CH / 16QAM



Band2 / 3MHz / High CH / QPSK



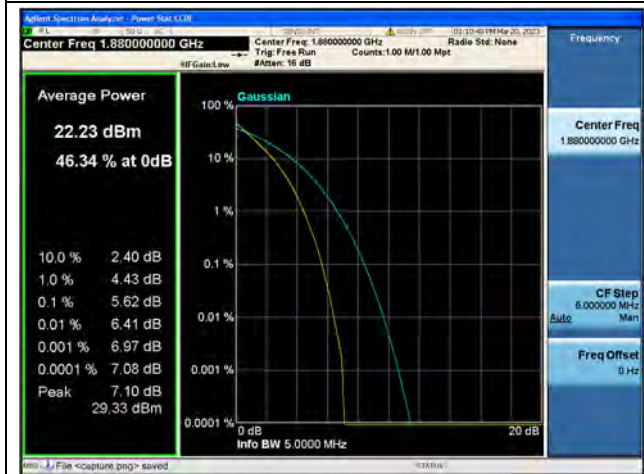
Band2 / 3MHz / High CH / 16QAM



Band2 / 5MHz / Low CH / QPSK



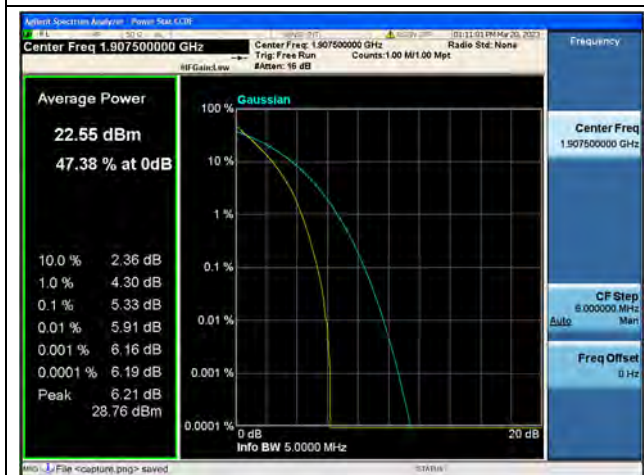
Band2 / 5MHz / Low CH / 16QAM



Band2 / 5MHz / Mid CH / QPSK



Band2 / 5MHz / Mid CH / 16QAM



Band2 / 5MHz / High CH / QPSK



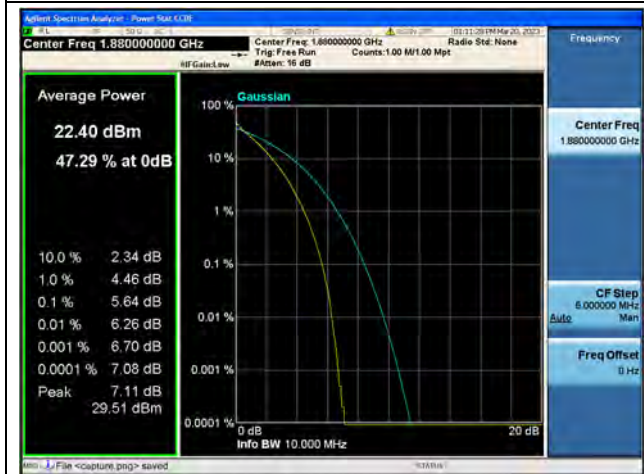
Band2 / 5MHz / High CH / 16QAM



Band2 / 10MHz / Low CH / QPSK



Band2 / 10MHz / Low CH / 16QAM



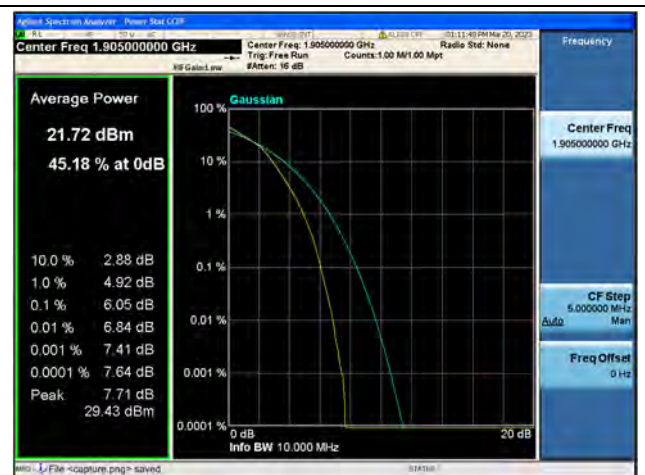
Band2 / 10MHz / Mid CH / QPSK



Band2 / 10MHz / Mid CH / 16QAM



Band2 / 10MHz / High CH / QPSK



Band2 / 10MHz / High CH / 16QAM