



REPORT No.: SZ24080312W05

# TEST REPORT

**APPLICANT** : BLU Products, Inc.

**PRODUCT NAME** : Smart Phone

**MODEL NAME** : G35

**BRAND NAME** : BLU

**FCC ID** : YHLBLU35W

**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** : 2024-09-04

**TEST DATE** : 2024-09-10 to 2024-10-14

**ISSUE DATE** : 2024-11-01



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| Change History |            |                   |
|----------------|------------|-------------------|
| Version        | Date       | Reason for change |
| 1.0            | 2024-11-01 | 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 #300 Miami, FL 33166, USA |
| <b>Manufacturer:</b>         | BLU Products, Inc.                                   |
| <b>Manufacturer Address:</b> | 8600 NW 36th Street, Suite #300 Miami, FL 33166, USA |

## 1.2. Equipment Under Test (EUT) Description

|                             |                                                  |                                         |
|-----------------------------|--------------------------------------------------|-----------------------------------------|
| <b>Product Name:</b>        | Smart Phone                                      |                                         |
| <b>Sample No.:</b>          | 4#, 6#                                           |                                         |
| <b>Hardware Version:</b>    | 9583-MB-V0.1                                     |                                         |
| <b>Software Version:</b>    | BLU_G1110_V14.0.G.03.00_GENERIC 29-09-2024 21:42 |                                         |
| <b>Modulation Type:</b>     | QPSK, 16QAM                                      |                                         |
| <b>Carrier Aggregation:</b> | Not Support                                      |                                         |
| <b>Operation Band:</b>      | Band 2 / 4 / 5 / 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 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 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     | -0.64dBi                                          |
|                               | LTE Band 4     | -0.88dBi                                          |
|                               | LTE Band 5     | -2.30dBi                                          |
|                               | LTE Band 12    | -0.28dBi                                          |
|                               | LTE Band 17    | -0.14dBi                                          |
|                               | LTE Band 66    | -0.88dBi                                          |
|                               | LTE Band 71    | -2.36dBi                                          |
| <b>Accessory Information:</b> | Battery        |                                                   |
|                               | Brand Name:    | BLU                                               |
|                               | Model No.:     | C896351300L                                       |
|                               | Serial No.:    | N/A                                               |
|                               | Capacity:      | 3000mAh                                           |
|                               | Rated Voltage: | 3.8V                                              |
|                               | Charge Limit:  | 4.35V                                             |
|                               | Manufacturer:  | Phenix New Energy(Huizhou) Co.,Ltd.               |
|                               | AC Adapter     |                                                   |
|                               | Brand Name:    | BLU                                               |
|                               | Model No.:     | US-WS-1000                                        |
|                               | Serial No.:    | N/A                                               |
|                               | Rated Output:  | 5.0V $\pm$ 1000mA                                 |
|                               | Rated Input:   | 100-240V $\sim$ 50/60Hz, 0.15A                    |
|                               | Manufacturer:  | Huizhou Wanzhisheng New Energy 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          | 0.209                       | 0.175 | 17M9G7D                      | 17M9W7D |
| 15          | 0.207                       | 0.168 | 13M5G7D                      | 13M4W7D |
| 10          | 0.207                       | 0.169 | 8M97G7D                      | 8M94W7D |
| 5           | 0.206                       | 0.169 | 4M47G7D                      | 4M48W7D |
| 3           | 0.206                       | 0.169 | 2M72G7D                      | 2M72W7D |
| 1.4         | 0.205                       | 0.168 | 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          | 0.198                       | 0.171 | 17M9G7D                      | 17M9W7D |
| 15          | 0.192                       | 0.166 | 13M4G7D                      | 13M4W7D |
| 10          | 0.193                       | 0.167 | 8M97G7D                      | 8M94W7D |
| 5           | 0.195                       | 0.166 | 4M47G7D                      | 4M48W7D |
| 3           | 0.195                       | 0.166 | 2M72G7D                      | 2M72W7D |
| 1.4         | 0.192                       | 0.166 | 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          | 0.084                       | 0.071 | 8M97G7D                      | 8M94W7D |
| 5           | 0.082                       | 0.069 | 4M47G7D                      | 4M47W7D |
| 3           | 0.082                       | 0.069 | 2M72G7D                      | 2M73W7D |
| 1.4         | 0.083                       | 0.068 | 1M10G7D                      | 1M10W7D |
| LTE Band 12 | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 10          | 0.135                       | 0.115 | 8M96G7D                      | 8M94W7D |
| 5           | 0.132                       | 0.109 | 4M48G7D                      | 4M47W7D |
| 3           | 0.132                       | 0.111 | 2M72G7D                      | 2M72W7D |
| 1.4         | 0.132                       | 0.109 | 1M10G7D                      | 1M10W7D |
| LTE Band 17 | Maximum E.R.P./E.I.R.P. (W) |       | Emission Designator (99%OBW) |         |
| BW(MHz)     | QPSK                        | 16QAM | QPSK                         | 16QAM   |
| 10          | 0.136                       | 0.117 | 8M95G7D                      | 8M92W7D |
| 5           | 0.134                       | 0.114 | 4M47G7D                      | 4M47W7D |



| <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                 | 0.199                              | 0.172 | 17M9G7D                             | 18M0W7D |
| 15                 | 0.196                              | 0.164 | 13M4G7D                             | 13M4W7D |
| 10                 | 0.195                              | 0.168 | 8M97G7D                             | 8M94W7D |
| 5                  | 0.193                              | 0.164 | 4M48G7D                             | 4M48W7D |
| 3                  | 0.196                              | 0.164 | 2M72G7D                             | 2M72W7D |
| 1.4                | 0.195                              | 0.167 | 1M10G7D                             | 1M10W7D |
| <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                              | 0.073 | 17M9G7D                             | 17M9W7D |
| 15                 | 0.082                              | 0.072 | 13M5G7D                             | 13M4W7D |
| 10                 | 0.082                              | 0.071 | 8M98G7D                             | 8M95W7D |
| 5                  | 0.082                              | 0.071 | 4M47G7D                             | 4M48W7D |



## 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(c)(10)<br>27.50(d)(4) | Transmitter Conducted Output Power and E.R.P./E.I.R.P. | Oct. 14, 2024 | Tan Xiaowei<br>Gan Jing | PASS   | No deviation                 |
| 2.1049                                                             | Occupied Bandwidth                                     | Sep. 11, 2023 | Gan Jing                | PASS   | No deviation                 |
| 2.1055<br>22.355<br>24.235<br>27.54                                | Frequency Stability                                    | Oct. 14, 2024 | Gan Jing                | PASS   | No deviation                 |
| 24.232(d),<br>27.50(d)(5)                                          | Peak to Average Ratio                                  | Oct. 10, 2023 | Gan Jing                | PASS   | No deviation                 |
| 2.1051<br>22.917(a)<br>24.238(a)<br>27.53(g)<br>27.53(h)           | Conducted Spurious Emissions                           | Oct. 09, 2023 | Gan Jing                | PASS   | No deviation                 |
| 2.1051<br>22.917(a)<br>24.238(a)<br>27.53(g)<br>27.53(h)           | Band Edge                                              | Sep. 10, 2023 | Gan Jing                | PASS   | No deviation                 |
| 2.1053                                                             | Radiated                                               | Sep. 18, 2023 | Gao Jianrou             | PASS   | No deviation                 |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--|--|--|--|
| 22.917(a)<br>24.238(a)<br>27.53(g)<br>27.53(h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spurious<br>Emissions |  |  |  |  |
| <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> 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 3:</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).

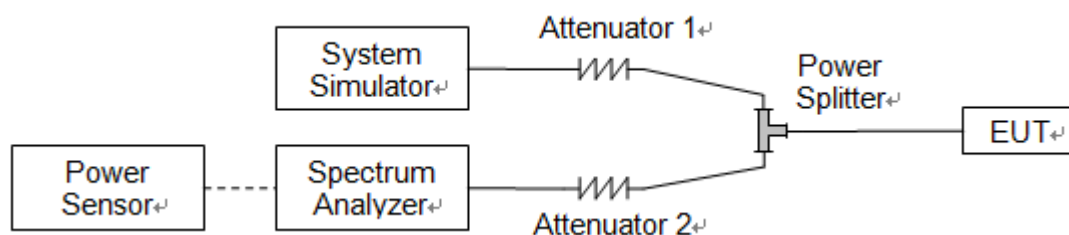
According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts E.I.R.P. and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

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 (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         | 23.75                         | 23.84                            | 23.72                          |
| 20              | QPSK       | 1       | 49        | 23.66                         | 23.74                            | 23.64                          |
| 20              | QPSK       | 1       | 99        | 23.57                         | 23.67                            | 23.58                          |
| 20              | QPSK       | 50      | 0         | 22.62                         | 22.89                            | 22.58                          |
| 20              | QPSK       | 50      | 24        | 22.53                         | 22.75                            | 22.47                          |
| 20              | QPSK       | 50      | 50        | 22.47                         | 22.66                            | 22.39                          |
| 20              | QPSK       | 100     | 0         | 22.38                         | 22.59                            | 22.29                          |
| 20              | 16QAM      | 1       | 0         | 23.04                         | 23.07                            | 22.95                          |
| 20              | 16QAM      | 1       | 49        | 22.92                         | 22.87                            | 22.89                          |
| 20              | 16QAM      | 1       | 99        | 22.82                         | 22.89                            | 22.82                          |
| 20              | 16QAM      | 50      | 0         | 22.00                         | 22.03                            | 21.91                          |
| 20              | 16QAM      | 50      | 24        | 21.86                         | 21.92                            | 21.93                          |
| 20              | 16QAM      | 50      | 50        | 21.80                         | 21.89                            | 21.81                          |
| 20              | 16QAM      | 100     | 0         | 21.89                         | 21.84                            | 21.86                          |



| 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         | 23.69                         | 23.80                            | 23.67                          |
| 15              | QPSK       | 1       | 37        | 23.48                         | 23.57                            | 23.41                          |
| 15              | QPSK       | 1       | 74        | 23.48                         | 23.44                            | 23.48                          |
| 15              | QPSK       | 36      | 0         | 22.43                         | 22.68                            | 22.43                          |
| 15              | QPSK       | 36      | 20        | 22.37                         | 22.53                            | 22.36                          |
| 15              | QPSK       | 36      | 39        | 22.32                         | 22.55                            | 22.25                          |
| 15              | QPSK       | 75      | 0         | 22.18                         | 22.40                            | 22.18                          |
| 15              | 16QAM      | 1       | 0         | 22.90                         | 22.88                            | 22.80                          |
| 15              | 16QAM      | 1       | 37        | 22.74                         | 22.75                            | 22.68                          |
| 15              | 16QAM      | 1       | 74        | 22.63                         | 22.71                            | 22.71                          |
| 15              | 16QAM      | 36      | 0         | 21.90                         | 21.91                            | 21.73                          |
| 15              | 16QAM      | 36      | 20        | 21.72                         | 21.75                            | 21.82                          |
| 15              | 16QAM      | 36      | 39        | 21.59                         | 21.81                            | 21.70                          |
| 15              | 16QAM      | 75      | 0         | 21.73                         | 21.75                            | 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         |            |         |           | 18650                         | 18900                            | 19150                          |
| Frequency (MHz) |            |         |           | 1855                          | 1880                             | 1905                           |
| 10              | QPSK       | 1       | 0         | 23.67                         | 23.81                            | 23.65                          |
| 10              | QPSK       | 1       | 25        | 23.54                         | 23.64                            | 23.45                          |
| 10              | QPSK       | 1       | 49        | 23.45                         | 23.51                            | 23.46                          |
| 10              | QPSK       | 25      | 0         | 22.43                         | 22.70                            | 22.50                          |
| 10              | QPSK       | 25      | 12        | 22.37                         | 22.61                            | 22.27                          |
| 10              | QPSK       | 25      | 25        | 22.38                         | 22.53                            | 22.21                          |
| 10              | QPSK       | 50      | 0         | 22.29                         | 22.45                            | 22.17                          |
| 10              | 16QAM      | 1       | 0         | 22.90                         | 22.92                            | 22.74                          |
| 10              | 16QAM      | 1       | 25        | 22.72                         | 22.73                            | 22.66                          |
| 10              | 16QAM      | 1       | 49        | 22.61                         | 22.76                            | 22.72                          |
| 10              | 16QAM      | 25      | 0         | 21.91                         | 21.86                            | 21.69                          |
| 10              | 16QAM      | 25      | 12        | 21.74                         | 21.83                            | 21.73                          |
| 10              | 16QAM      | 25      | 25        | 21.64                         | 21.81                            | 21.65                          |
| 10              | 16QAM      | 50      | 0         | 21.70                         | 21.67                            | 21.64                          |



| 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         | 23.68                         | 23.77                            | 23.65                          |
| 5               | QPSK       | 1       | 12        | 23.57                         | 23.62                            | 23.42                          |
| 5               | QPSK       | 1       | 24        | 23.49                         | 23.53                            | 23.42                          |
| 5               | QPSK       | 12      | 0         | 22.50                         | 22.66                            | 22.36                          |
| 5               | QPSK       | 12      | 7         | 22.35                         | 22.56                            | 22.38                          |
| 5               | QPSK       | 12      | 13        | 22.37                         | 22.56                            | 22.17                          |
| 5               | QPSK       | 25      | 0         | 22.23                         | 22.47                            | 22.11                          |
| 5               | 16QAM      | 1       | 0         | 22.88                         | 22.92                            | 22.81                          |
| 5               | 16QAM      | 1       | 12        | 22.72                         | 22.77                            | 22.70                          |
| 5               | 16QAM      | 1       | 24        | 22.64                         | 22.76                            | 22.61                          |
| 5               | 16QAM      | 12      | 0         | 21.86                         | 21.94                            | 21.77                          |
| 5               | 16QAM      | 12      | 7         | 21.73                         | 21.69                            | 21.77                          |
| 5               | 16QAM      | 12      | 13        | 21.70                         | 21.71                            | 21.66                          |
| 5               | 16QAM      | 25      | 0         | 21.69                         | 21.62                            | 21.74                          |



| 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         | 23.71                         | 23.77                            | 23.68                          |
| 3               | QPSK       | 1       | 8         | 23.58                         | 23.58                            | 23.42                          |
| 3               | QPSK       | 1       | 14        | 23.37                         | 23.46                            | 23.43                          |
| 3               | QPSK       | 8       | 0         | 22.49                         | 22.68                            | 22.50                          |
| 3               | QPSK       | 8       | 4         | 22.40                         | 22.55                            | 22.28                          |
| 3               | QPSK       | 8       | 7         | 22.35                         | 22.47                            | 22.20                          |
| 3               | QPSK       | 15      | 0         | 22.21                         | 22.39                            | 22.19                          |
| 3               | 16QAM      | 1       | 0         | 22.92                         | 22.92                            | 22.86                          |
| 3               | 16QAM      | 1       | 8         | 22.74                         | 22.75                            | 22.71                          |
| 3               | 16QAM      | 1       | 14        | 22.68                         | 22.81                            | 22.65                          |
| 3               | 16QAM      | 8       | 0         | 21.91                         | 21.91                            | 21.71                          |
| 3               | 16QAM      | 8       | 4         | 21.67                         | 21.71                            | 21.71                          |
| 3               | 16QAM      | 8       | 7         | 21.72                         | 21.79                            | 21.66                          |
| 3               | 16QAM      | 15      | 0         | 21.68                         | 21.67                            | 21.67                          |



| 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         | 23.67                         | 23.76                            | 23.65                          |
| 1.4             | QPSK       | 1       | 3         | 23.49                         | 23.63                            | 23.43                          |
| 1.4             | QPSK       | 1       | 5         | 23.45                         | 23.52                            | 23.37                          |
| 1.4             | QPSK       | 3       | 0         | 22.39                         | 22.74                            | 22.50                          |
| 1.4             | QPSK       | 3       | 1         | 22.42                         | 22.59                            | 22.24                          |
| 1.4             | QPSK       | 3       | 3         | 22.31                         | 22.52                            | 22.24                          |
| 1.4             | QPSK       | 6       | 0         | 22.26                         | 22.36                            | 22.20                          |
| 1.4             | 16QAM      | 1       | 0         | 22.87                         | 22.90                            | 22.83                          |
| 1.4             | 16QAM      | 1       | 3         | 22.71                         | 22.69                            | 22.77                          |
| 1.4             | 16QAM      | 1       | 5         | 22.73                         | 22.76                            | 22.65                          |
| 1.4             | 16QAM      | 3       | 0         | 21.88                         | 21.85                            | 21.71                          |
| 1.4             | 16QAM      | 3       | 1         | 21.68                         | 21.76                            | 21.76                          |
| 1.4             | 16QAM      | 3       | 3         | 21.62                         | 21.68                            | 21.58                          |
| 1.4             | 16QAM      | 6       | 0         | 21.80                         | 21.65                            | 21.72                          |



| 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            | 23.77                               | 23.84                                  | 23.77                                |
| 20              | QPSK       | 1          | 49           | 23.66                               | 23.77                                  | 23.71                                |
| 20              | QPSK       | 1          | 99           | 23.60                               | 23.69                                  | 23.61                                |
| 20              | QPSK       | 50         | 0            | 22.55                               | 22.72                                  | 22.70                                |
| 20              | QPSK       | 50         | 24           | 22.46                               | 22.64                                  | 22.55                                |
| 20              | QPSK       | 50         | 50           | 22.39                               | 22.56                                  | 22.48                                |
| 20              | QPSK       | 100        | 0            | 22.33                               | 22.50                                  | 22.38                                |
| 20              | 16QAM      | 1          | 0            | 23.06                               | 23.20                                  | 23.17                                |
| 20              | 16QAM      | 1          | 49           | 22.91                               | 22.92                                  | 22.95                                |
| 20              | 16QAM      | 1          | 99           | 22.92                               | 22.85                                  | 22.96                                |
| 20              | 16QAM      | 50         | 0            | 22.07                               | 21.94                                  | 21.89                                |
| 20              | 16QAM      | 50         | 24           | 21.94                               | 21.99                                  | 21.98                                |
| 20              | 16QAM      | 50         | 50           | 21.96                               | 21.94                                  | 21.90                                |
| 20              | 16QAM      | 100        | 0            | 21.96                               | 21.87                                  | 21.97                                |



| 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            | 23.65                               | 23.71                                  | 23.68                                |
| 15              | QPSK       | 1          | 37           | 23.53                               | 23.59                                  | 23.61                                |
| 15              | QPSK       | 1          | 74           | 23.41                               | 23.60                                  | 23.47                                |
| 15              | QPSK       | 36         | 0            | 22.41                               | 22.63                                  | 22.61                                |
| 15              | QPSK       | 36         | 20           | 22.34                               | 22.53                                  | 22.33                                |
| 15              | QPSK       | 36         | 39           | 22.27                               | 22.43                                  | 22.37                                |
| 15              | QPSK       | 75         | 0            | 22.23                               | 22.32                                  | 22.22                                |
| 15              | 16QAM      | 1          | 0            | 22.88                               | 23.02                                  | 23.08                                |
| 15              | 16QAM      | 1          | 37           | 22.80                               | 22.76                                  | 22.76                                |
| 15              | 16QAM      | 1          | 74           | 22.77                               | 22.77                                  | 22.80                                |
| 15              | 16QAM      | 36         | 0            | 21.94                               | 21.76                                  | 21.69                                |
| 15              | 16QAM      | 36         | 20           | 21.77                               | 21.89                                  | 21.76                                |
| 15              | 16QAM      | 36         | 39           | 21.80                               | 21.72                                  | 21.68                                |
| 15              | 16QAM      | 75         | 0            | 21.92                               | 21.77                                  | 21.92                                |



| 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            | 23.63                               | 23.74                                  | 23.69                                |
| 10              | QPSK       | 1          | 25           | 23.49                               | 23.64                                  | 23.55                                |
| 10              | QPSK       | 1          | 49           | 23.40                               | 23.53                                  | 23.48                                |
| 10              | QPSK       | 25         | 0            | 22.37                               | 22.62                                  | 22.49                                |
| 10              | QPSK       | 25         | 12           | 22.38                               | 22.52                                  | 22.41                                |
| 10              | QPSK       | 25         | 25           | 22.27                               | 22.37                                  | 22.31                                |
| 10              | QPSK       | 50         | 0            | 22.23                               | 22.32                                  | 22.21                                |
| 10              | 16QAM      | 1          | 0            | 22.83                               | 23.12                                  | 22.97                                |
| 10              | 16QAM      | 1          | 25           | 22.77                               | 22.79                                  | 22.86                                |
| 10              | 16QAM      | 1          | 49           | 22.82                               | 22.70                                  | 22.78                                |
| 10              | 16QAM      | 25         | 0            | 21.89                               | 21.82                                  | 21.75                                |
| 10              | 16QAM      | 25         | 12           | 21.76                               | 21.88                                  | 21.89                                |
| 10              | 16QAM      | 25         | 25           | 21.86                               | 21.80                                  | 21.68                                |
| 10              | 16QAM      | 50         | 0            | 21.87                               | 21.66                                  | 21.80                                |



| LTE Band 4      |            |         |           |                               |                                  |                                |
|-----------------|------------|---------|-----------|-------------------------------|----------------------------------|--------------------------------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Average Power Low Ch. / Freq. | Average Power Middle Ch. / Freq. | Average Power High Ch. / Freq. |
| Channel         |            |         |           | 19975                         | 20175                            | 20375                          |
| Frequency (MHz) |            |         |           | 1712.5                        | 1732.5                           | 1752.5                         |
| 5               | QPSK       | 1       | 0         | 23.67                         | 23.77                            | 23.68                          |
| 5               | QPSK       | 1       | 12        | 23.45                         | 23.56                            | 23.48                          |
| 5               | QPSK       | 1       | 24        | 23.42                         | 23.56                            | 23.48                          |
| 5               | QPSK       | 12      | 0         | 22.39                         | 22.57                            | 22.59                          |
| 5               | QPSK       | 12      | 7         | 22.30                         | 22.45                            | 22.43                          |
| 5               | QPSK       | 12      | 13        | 22.16                         | 22.35                            | 22.35                          |
| 5               | QPSK       | 25      | 0         | 22.20                         | 22.37                            | 22.16                          |
| 5               | 16QAM      | 1       | 0         | 22.98                         | 23.07                            | 23.01                          |
| 5               | 16QAM      | 1       | 12        | 22.69                         | 22.75                            | 22.74                          |
| 5               | 16QAM      | 1       | 24        | 22.80                         | 22.69                            | 22.82                          |
| 5               | 16QAM      | 12      | 0         | 21.91                         | 21.78                            | 21.78                          |
| 5               | 16QAM      | 12      | 7         | 21.82                         | 21.82                            | 21.78                          |
| 5               | 16QAM      | 12      | 13        | 21.84                         | 21.80                            | 21.72                          |
| 5               | 16QAM      | 25      | 0         | 21.77                         | 21.67                            | 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            | 23.71                               | 23.77                                  | 23.66                                |
| 3               | QPSK       | 1          | 8            | 23.51                               | 23.60                                  | 23.62                                |
| 3               | QPSK       | 1          | 14           | 23.40                               | 23.47                                  | 23.49                                |
| 3               | QPSK       | 8          | 0            | 22.34                               | 22.63                                  | 22.53                                |
| 3               | QPSK       | 8          | 4            | 22.32                               | 22.43                                  | 22.33                                |
| 3               | QPSK       | 8          | 7            | 22.28                               | 22.45                                  | 22.38                                |
| 3               | QPSK       | 15         | 0            | 22.22                               | 22.41                                  | 22.24                                |
| 3               | 16QAM      | 1          | 0            | 22.85                               | 23.07                                  | 23.03                                |
| 3               | 16QAM      | 1          | 8            | 22.74                               | 22.74                                  | 22.80                                |
| 3               | 16QAM      | 1          | 14           | 22.70                               | 22.63                                  | 22.84                                |
| 3               | 16QAM      | 8          | 0            | 21.86                               | 21.82                                  | 21.78                                |
| 3               | 16QAM      | 8          | 4            | 21.78                               | 21.89                                  | 21.83                                |
| 3               | 16QAM      | 8          | 7            | 21.80                               | 21.84                                  | 21.67                                |
| 3               | 16QAM      | 15         | 0            | 21.80                               | 21.68                                  | 21.76                                |



| 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            | 23.64                               | 23.72                                  | 23.64                                |
| 1.4             | QPSK       | 1          | 3            | 23.47                               | 23.63                                  | 23.51                                |
| 1.4             | QPSK       | 1          | 5            | 23.48                               | 23.48                                  | 23.40                                |
| 1.4             | QPSK       | 3          | 0            | 22.35                               | 22.56                                  | 22.51                                |
| 1.4             | QPSK       | 3          | 1            | 22.36                               | 22.48                                  | 22.36                                |
| 1.4             | QPSK       | 3          | 3            | 22.20                               | 22.38                                  | 22.34                                |
| 1.4             | QPSK       | 6          | 0            | 22.23                               | 22.40                                  | 22.23                                |
| 1.4             | 16QAM      | 1          | 0            | 22.97                               | 23.09                                  | 23.08                                |
| 1.4             | 16QAM      | 1          | 3            | 22.73                               | 22.80                                  | 22.86                                |
| 1.4             | 16QAM      | 1          | 5            | 22.78                               | 22.75                                  | 22.81                                |
| 1.4             | 16QAM      | 3          | 0            | 21.90                               | 21.73                                  | 21.72                                |
| 1.4             | 16QAM      | 3          | 1            | 21.77                               | 21.84                                  | 21.84                                |
| 1.4             | 16QAM      | 3          | 3            | 21.86                               | 21.72                                  | 21.76                                |
| 1.4             | 16QAM      | 6          | 0            | 21.76                               | 21.72                                  | 21.78                                |



| 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            | 23.63                               | 23.70                                  | 23.56                                |
| 10              | QPSK       | 1       | 25           | 23.49                               | 23.58                                  | 23.49                                |
| 10              | QPSK       | 1       | 49           | 23.39                               | 23.49                                  | 23.41                                |
| 10              | QPSK       | 25      | 0            | 22.37                               | 22.62                                  | 22.40                                |
| 10              | QPSK       | 25      | 12           | 22.23                               | 22.48                                  | 22.32                                |
| 10              | QPSK       | 25      | 25           | 22.16                               | 22.41                                  | 22.24                                |
| 10              | QPSK       | 50      | 0            | 22.10                               | 22.32                                  | 22.16                                |
| 10              | 16QAM      | 1       | 0            | 22.95                               | 22.92                                  | 22.85                                |
| 10              | 16QAM      | 1       | 25           | 22.88                               | 22.76                                  | 22.78                                |
| 10              | 16QAM      | 1       | 49           | 22.74                               | 22.79                                  | 22.73                                |
| 10              | 16QAM      | 25      | 0            | 21.98                               | 21.73                                  | 21.80                                |
| 10              | 16QAM      | 25      | 12           | 21.84                               | 21.91                                  | 21.86                                |
| 10              | 16QAM      | 25      | 25           | 21.79                               | 21.91                                  | 21.89                                |
| 10              | 16QAM      | 50      | 0            | 21.81                               | 21.80                                  | 21.88                                |



| 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            | 23.51                               | 23.58                                  | 23.51                                |
| 5               | QPSK       | 1       | 12           | 23.33                               | 23.48                                  | 23.41                                |
| 5               | QPSK       | 1       | 24           | 23.18                               | 23.37                                  | 23.28                                |
| 5               | QPSK       | 12      | 0            | 22.16                               | 22.43                                  | 22.22                                |
| 5               | QPSK       | 12      | 7            | 22.13                               | 22.32                                  | 22.18                                |
| 5               | QPSK       | 12      | 13           | 22.01                               | 22.29                                  | 22.09                                |
| 5               | QPSK       | 25      | 0            | 21.93                               | 22.17                                  | 22.04                                |
| 5               | 16QAM      | 1       | 0            | 22.80                               | 22.83                                  | 22.72                                |
| 5               | 16QAM      | 1       | 12           | 22.79                               | 22.67                                  | 22.68                                |
| 5               | 16QAM      | 1       | 24           | 22.63                               | 22.62                                  | 22.65                                |
| 5               | 16QAM      | 12      | 0            | 21.75                               | 21.56                                  | 21.67                                |
| 5               | 16QAM      | 12      | 7            | 21.63                               | 21.76                                  | 21.71                                |
| 5               | 16QAM      | 12      | 13           | 21.59                               | 21.79                                  | 21.76                                |
| 5               | 16QAM      | 25      | 0            | 21.69                               | 21.69                                  | 21.68                                |



| 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            | 23.53                               | 23.61                                  | 23.48                                |
| 3               | QPSK       | 1       | 8            | 23.30                               | 23.50                                  | 23.33                                |
| 3               | QPSK       | 1       | 14           | 23.18                               | 23.38                                  | 23.21                                |
| 3               | QPSK       | 8       | 0            | 22.21                               | 22.42                                  | 22.29                                |
| 3               | QPSK       | 8       | 4            | 22.05                               | 22.32                                  | 22.13                                |
| 3               | QPSK       | 8       | 7            | 21.97                               | 22.28                                  | 22.09                                |
| 3               | QPSK       | 15      | 0            | 22.01                               | 22.21                                  | 22.07                                |
| 3               | 16QAM      | 1       | 0            | 22.81                               | 22.72                                  | 22.71                                |
| 3               | 16QAM      | 1       | 8            | 22.69                               | 22.59                                  | 22.63                                |
| 3               | 16QAM      | 1       | 14           | 22.59                               | 22.65                                  | 22.64                                |
| 3               | 16QAM      | 8       | 0            | 21.77                               | 21.56                                  | 21.71                                |
| 3               | 16QAM      | 8       | 4            | 21.66                               | 21.77                                  | 21.75                                |
| 3               | 16QAM      | 8       | 7            | 21.68                               | 21.75                                  | 21.70                                |
| 3               | 16QAM      | 15      | 0            | 21.61                               | 21.62                                  | 21.73                                |



| 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            | 23.53                               | 23.63                                  | 23.42                                |
| 1.4             | QPSK       | 1       | 3            | 23.39                               | 23.49                                  | 23.27                                |
| 1.4             | QPSK       | 1       | 5            | 23.21                               | 23.31                                  | 23.19                                |
| 1.4             | QPSK       | 3       | 0            | 22.23                               | 22.40                                  | 22.26                                |
| 1.4             | QPSK       | 3       | 1            | 22.09                               | 22.35                                  | 22.21                                |
| 1.4             | QPSK       | 3       | 3            | 21.96                               | 22.29                                  | 22.04                                |
| 1.4             | QPSK       | 6       | 0            | 21.88                               | 22.10                                  | 22.05                                |
| 1.4             | 16QAM      | 1       | 0            | 22.76                               | 22.72                                  | 22.73                                |
| 1.4             | 16QAM      | 1       | 3            | 22.73                               | 22.55                                  | 22.60                                |
| 1.4             | 16QAM      | 1       | 5            | 22.54                               | 22.59                                  | 22.58                                |
| 1.4             | 16QAM      | 3       | 0            | 21.77                               | 21.63                                  | 21.66                                |
| 1.4             | 16QAM      | 3       | 1            | 21.71                               | 21.75                                  | 21.71                                |
| 1.4             | 16QAM      | 3       | 3            | 21.66                               | 21.71                                  | 21.67                                |
| 1.4             | 16QAM      | 6       | 0            | 21.70                               | 21.61                                  | 21.80                                |



| 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            | 23.64                               | 23.72                                  | 23.64                                |
| 10              | QPSK       | 1          | 25           | 23.53                               | 23.58                                  | 23.56                                |
| 10              | QPSK       | 1          | 49           | 23.48                               | 23.48                                  | 23.48                                |
| 10              | QPSK       | 25         | 0            | 22.43                               | 22.47                                  | 22.70                                |
| 10              | QPSK       | 25         | 12           | 22.37                               | 22.40                                  | 22.59                                |
| 10              | QPSK       | 25         | 25           | 22.31                               | 22.34                                  | 22.52                                |
| 10              | QPSK       | 50         | 0            | 22.24                               | 22.26                                  | 22.44                                |
| 10              | 16QAM      | 1          | 0            | 23.00                               | 22.89                                  | 23.02                                |
| 10              | 16QAM      | 1          | 25           | 22.92                               | 22.92                                  | 22.88                                |
| 10              | 16QAM      | 1          | 49           | 22.86                               | 22.84                                  | 22.83                                |
| 10              | 16QAM      | 25         | 0            | 21.78                               | 21.88                                  | 21.95                                |
| 10              | 16QAM      | 25         | 12           | 21.68                               | 21.71                                  | 21.68                                |
| 10              | 16QAM      | 25         | 25           | 21.68                               | 21.71                                  | 21.64                                |
| 10              | 16QAM      | 50         | 0            | 21.58                               | 21.60                                  | 21.65                                |



| 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            | 23.57                               | 23.63                                  | 23.56                                |
| 5               | QPSK       | 1          | 12           | 23.38                               | 23.50                                  | 23.36                                |
| 5               | QPSK       | 1          | 24           | 23.30                               | 23.36                                  | 23.34                                |
| 5               | QPSK       | 12         | 0            | 22.24                               | 22.32                                  | 22.53                                |
| 5               | QPSK       | 12         | 7            | 22.20                               | 22.28                                  | 22.40                                |
| 5               | QPSK       | 12         | 13           | 22.21                               | 22.11                                  | 22.44                                |
| 5               | QPSK       | 25         | 0            | 22.09                               | 22.13                                  | 22.21                                |
| 5               | 16QAM      | 1          | 0            | 22.79                               | 22.66                                  | 22.81                                |
| 5               | 16QAM      | 1          | 12           | 22.79                               | 22.71                                  | 22.78                                |
| 5               | 16QAM      | 1          | 24           | 22.66                               | 22.73                                  | 22.68                                |
| 5               | 16QAM      | 12         | 0            | 21.58                               | 21.67                                  | 21.83                                |
| 5               | 16QAM      | 12         | 7            | 21.50                               | 21.51                                  | 21.49                                |
| 5               | 16QAM      | 12         | 13           | 21.50                               | 21.53                                  | 21.54                                |
| 5               | 16QAM      | 25         | 0            | 21.37                               | 21.51                                  | 21.43                                |



| 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            | 23.54                               | 23.62                                  | 23.49                                |
| 3               | QPSK       | 1          | 8            | 23.37                               | 23.47                                  | 23.48                                |
| 3               | QPSK       | 1          | 14           | 23.28                               | 23.33                                  | 23.37                                |
| 3               | QPSK       | 8          | 0            | 22.28                               | 22.34                                  | 22.57                                |
| 3               | QPSK       | 8          | 4            | 22.27                               | 22.28                                  | 22.42                                |
| 3               | QPSK       | 8          | 7            | 22.16                               | 22.21                                  | 22.43                                |
| 3               | QPSK       | 15         | 0            | 22.14                               | 22.13                                  | 22.33                                |
| 3               | 16QAM      | 1          | 0            | 22.87                               | 22.79                                  | 22.81                                |
| 3               | 16QAM      | 1          | 8            | 22.74                               | 22.70                                  | 22.75                                |
| 3               | 16QAM      | 1          | 14           | 22.65                               | 22.71                                  | 22.66                                |
| 3               | 16QAM      | 8          | 0            | 21.55                               | 21.66                                  | 21.78                                |
| 3               | 16QAM      | 8          | 4            | 21.52                               | 21.57                                  | 21.46                                |
| 3               | 16QAM      | 8          | 7            | 21.51                               | 21.58                                  | 21.55                                |
| 3               | 16QAM      | 15         | 0            | 21.47                               | 21.52                                  | 21.55                                |



| 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            | 23.55                               | 23.62                                  | 23.55                                |
| 1.4             | QPSK       | 1          | 3            | 23.31                               | 23.39                                  | 23.42                                |
| 1.4             | QPSK       | 1          | 5            | 23.33                               | 23.30                                  | 23.33                                |
| 1.4             | QPSK       | 3          | 0            | 22.34                               | 22.37                                  | 22.52                                |
| 1.4             | QPSK       | 3          | 1            | 22.19                               | 22.21                                  | 22.49                                |
| 1.4             | QPSK       | 3          | 3            | 22.22                               | 22.15                                  | 22.34                                |
| 1.4             | QPSK       | 6          | 0            | 22.02                               | 22.12                                  | 22.27                                |
| 1.4             | 16QAM      | 1          | 0            | 22.78                               | 22.71                                  | 22.82                                |
| 1.4             | 16QAM      | 1          | 3            | 22.70                               | 22.78                                  | 22.73                                |
| 1.4             | 16QAM      | 1          | 5            | 22.71                               | 22.62                                  | 22.64                                |
| 1.4             | 16QAM      | 3          | 0            | 21.61                               | 21.68                                  | 21.77                                |
| 1.4             | 16QAM      | 3          | 1            | 21.50                               | 21.52                                  | 21.48                                |
| 1.4             | 16QAM      | 3          | 3            | 21.49                               | 21.50                                  | 21.53                                |
| 1.4             | 16QAM      | 6          | 0            | 21.41                               | 21.37                                  | 21.45                                |



| 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            | 23.57                               | 23.64                                  | 23.62                                |
| 10              | QPSK       | 1          | 25           | 23.45                               | 23.59                                  | 23.54                                |
| 10              | QPSK       | 1          | 49           | 23.40                               | 23.51                                  | 23.47                                |
| 10              | QPSK       | 25         | 0            | 22.61                               | 22.71                                  | 22.68                                |
| 10              | QPSK       | 25         | 12           | 22.47                               | 22.60                                  | 22.61                                |
| 10              | QPSK       | 25         | 25           | 22.39                               | 22.53                                  | 22.54                                |
| 10              | QPSK       | 50         | 0            | 22.30                               | 22.46                                  | 22.47                                |
| 10              | 16QAM      | 1          | 0            | 22.95                               | 22.78                                  | 22.96                                |
| 10              | 16QAM      | 1          | 25           | 22.79                               | 22.82                                  | 22.78                                |
| 10              | 16QAM      | 1          | 49           | 22.74                               | 22.73                                  | 22.70                                |
| 10              | 16QAM      | 25         | 0            | 21.72                               | 21.90                                  | 21.67                                |
| 10              | 16QAM      | 25         | 12           | 21.60                               | 21.63                                  | 21.63                                |
| 10              | 16QAM      | 25         | 25           | 21.66                               | 21.60                                  | 21.53                                |
| 10              | 16QAM      | 50         | 0            | 21.63                               | 21.57                                  | 21.59                                |



| 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            | 23.50                               | 23.57                                  | 23.54                                |
| 5               | QPSK       | 1          | 12           | 23.28                               | 23.37                                  | 23.34                                |
| 5               | QPSK       | 1          | 24           | 23.19                               | 23.30                                  | 23.35                                |
| 5               | QPSK       | 12         | 0            | 22.48                               | 22.58                                  | 22.56                                |
| 5               | QPSK       | 12         | 7            | 22.24                               | 22.52                                  | 22.47                                |
| 5               | QPSK       | 12         | 13           | 22.20                               | 22.31                                  | 22.41                                |
| 5               | QPSK       | 25         | 0            | 22.19                               | 22.24                                  | 22.31                                |
| 5               | 16QAM      | 1          | 0            | 22.74                               | 22.58                                  | 22.87                                |
| 5               | 16QAM      | 1          | 12           | 22.64                               | 22.62                                  | 22.56                                |
| 5               | 16QAM      | 1          | 24           | 22.52                               | 22.53                                  | 22.53                                |
| 5               | 16QAM      | 12         | 0            | 21.59                               | 21.78                                  | 21.56                                |
| 5               | 16QAM      | 12         | 7            | 21.42                               | 21.48                                  | 21.49                                |
| 5               | 16QAM      | 12         | 13           | 21.47                               | 21.41                                  | 21.37                                |
| 5               | 16QAM      | 25         | 0            | 21.52                               | 21.40                                  | 21.38                                |



| 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            | 23.86                               | 23.87                                  | 23.78                                |
| 20              | QPSK       | 1          | 49           | 23.79                               | 23.80                                  | 23.67                                |
| 20              | QPSK       | 1          | 99           | 23.72                               | 23.71                                  | 23.58                                |
| 20              | QPSK       | 50         | 0            | 22.73                               | 22.67                                  | 22.48                                |
| 20              | QPSK       | 50         | 24           | 22.67                               | 22.59                                  | 22.39                                |
| 20              | QPSK       | 50         | 50           | 22.59                               | 22.51                                  | 22.32                                |
| 20              | QPSK       | 100        | 0            | 22.51                               | 22.42                                  | 22.26                                |
| 20              | 16QAM      | 1          | 0            | 23.23                               | 23.12                                  | 23.23                                |
| 20              | 16QAM      | 1          | 49           | 23.10                               | 23.13                                  | 23.12                                |
| 20              | 16QAM      | 1          | 99           | 23.02                               | 23.07                                  | 23.10                                |
| 20              | 16QAM      | 50         | 0            | 21.98                               | 22.20                                  | 22.03                                |
| 20              | 16QAM      | 50         | 24           | 21.87                               | 21.90                                  | 21.91                                |
| 20              | 16QAM      | 50         | 50           | 21.78                               | 21.86                                  | 21.90                                |
| 20              | 16QAM      | 100        | 0            | 21.90                               | 21.79                                  | 21.84                                |



| 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                               | 23.81                                  | 23.64                                |
| 15              | QPSK       | 1          | 37           | 23.71                               | 23.70                                  | 23.50                                |
| 15              | QPSK       | 1          | 74           | 23.54                               | 23.53                                  | 23.46                                |
| 15              | QPSK       | 36         | 0            | 22.57                               | 22.58                                  | 22.36                                |
| 15              | QPSK       | 36         | 20           | 22.48                               | 22.43                                  | 22.24                                |
| 15              | QPSK       | 36         | 39           | 22.47                               | 22.40                                  | 22.17                                |
| 15              | QPSK       | 75         | 0            | 22.34                               | 22.30                                  | 22.10                                |
| 15              | 16QAM      | 1          | 0            | 23.03                               | 22.97                                  | 23.04                                |
| 15              | 16QAM      | 1          | 37           | 22.96                               | 22.95                                  | 22.98                                |
| 15              | 16QAM      | 1          | 74           | 22.91                               | 22.92                                  | 22.91                                |
| 15              | 16QAM      | 36         | 0            | 21.84                               | 22.10                                  | 21.85                                |
| 15              | 16QAM      | 36         | 20           | 21.79                               | 21.68                                  | 21.74                                |
| 15              | 16QAM      | 36         | 39           | 21.68                               | 21.70                                  | 21.79                                |
| 15              | 16QAM      | 75         | 0            | 21.71                               | 21.71                                  | 21.73                                |



| 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            | 23.79                               | 23.73                                  | 23.63                                |
| 10              | QPSK       | 1          | 25           | 23.60                               | 23.62                                  | 23.46                                |
| 10              | QPSK       | 1          | 49           | 23.54                               | 23.62                                  | 23.48                                |
| 10              | QPSK       | 25         | 0            | 22.61                               | 22.57                                  | 22.39                                |
| 10              | QPSK       | 25         | 12           | 22.48                               | 22.39                                  | 22.20                                |
| 10              | QPSK       | 25         | 25           | 22.49                               | 22.33                                  | 22.18                                |
| 10              | QPSK       | 50         | 0            | 22.42                               | 22.33                                  | 22.07                                |
| 10              | 16QAM      | 1          | 0            | 23.14                               | 22.92                                  | 23.05                                |
| 10              | 16QAM      | 1          | 25           | 22.94                               | 23.02                                  | 22.95                                |
| 10              | 16QAM      | 1          | 49           | 22.88                               | 22.96                                  | 22.88                                |
| 10              | 16QAM      | 25         | 0            | 21.81                               | 21.99                                  | 21.93                                |
| 10              | 16QAM      | 25         | 12           | 21.74                               | 21.67                                  | 21.77                                |
| 10              | 16QAM      | 25         | 25           | 21.65                               | 21.72                                  | 21.69                                |
| 10              | 16QAM      | 50         | 0            | 21.71                               | 21.63                                  | 21.73                                |



| 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            | 23.72                               | 23.74                                  | 23.72                                |
| 5               | QPSK       | 1          | 12           | 23.66                               | 23.71                                  | 23.48                                |
| 5               | QPSK       | 1          | 24           | 23.51                               | 23.57                                  | 23.49                                |
| 5               | QPSK       | 12         | 0            | 22.55                               | 22.52                                  | 22.39                                |
| 5               | QPSK       | 12         | 7            | 22.54                               | 22.38                                  | 22.27                                |
| 5               | QPSK       | 12         | 13           | 22.48                               | 22.41                                  | 22.21                                |
| 5               | QPSK       | 25         | 0            | 22.38                               | 22.24                                  | 22.13                                |
| 5               | 16QAM      | 1          | 0            | 23.03                               | 22.90                                  | 23.00                                |
| 5               | 16QAM      | 1          | 12           | 22.93                               | 23.01                                  | 22.95                                |
| 5               | 16QAM      | 1          | 24           | 22.80                               | 22.88                                  | 23.00                                |
| 5               | 16QAM      | 12         | 0            | 21.87                               | 22.02                                  | 21.88                                |
| 5               | 16QAM      | 12         | 7            | 21.73                               | 21.74                                  | 21.69                                |
| 5               | 16QAM      | 12         | 13           | 21.63                               | 21.71                                  | 21.74                                |
| 5               | 16QAM      | 25         | 0            | 21.73                               | 21.65                                  | 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         |            |            |              | 131987                              | 132322                                 | 132657                               |
| Frequency (MHz) |            |            |              | 1711.5                              | 1745                                   | 1778.5                               |
| 3               | QPSK       | 1          | 0            | 23.76                               | 23.80                                  | 23.65                                |
| 3               | QPSK       | 1          | 8            | 23.66                               | 23.71                                  | 23.49                                |
| 3               | QPSK       | 1          | 14           | 23.62                               | 23.58                                  | 23.48                                |
| 3               | QPSK       | 8          | 0            | 22.62                               | 22.45                                  | 22.40                                |
| 3               | QPSK       | 8          | 4            | 22.54                               | 22.38                                  | 22.16                                |
| 3               | QPSK       | 8          | 7            | 22.43                               | 22.32                                  | 22.19                                |
| 3               | QPSK       | 15         | 0            | 22.42                               | 22.21                                  | 22.07                                |
| 3               | 16QAM      | 1          | 0            | 23.04                               | 22.97                                  | 23.02                                |
| 3               | 16QAM      | 1          | 8            | 22.90                               | 22.96                                  | 22.91                                |
| 3               | 16QAM      | 1          | 14           | 22.80                               | 22.97                                  | 22.88                                |
| 3               | 16QAM      | 8          | 0            | 21.87                               | 22.09                                  | 21.85                                |
| 3               | 16QAM      | 8          | 4            | 21.69                               | 21.79                                  | 21.74                                |
| 3               | 16QAM      | 8          | 7            | 21.60                               | 21.76                                  | 21.76                                |
| 3               | 16QAM      | 15         | 0            | 21.79                               | 21.60                                  | 21.68                                |



| 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            | 23.79                               | 23.76                                  | 23.67                                |
| 1.4             | QPSK       | 1          | 3            | 23.64                               | 23.69                                  | 23.49                                |
| 1.4             | QPSK       | 1          | 5            | 23.57                               | 23.59                                  | 23.41                                |
| 1.4             | QPSK       | 3          | 0            | 22.55                               | 22.51                                  | 22.28                                |
| 1.4             | QPSK       | 3          | 1            | 22.49                               | 22.45                                  | 22.20                                |
| 1.4             | QPSK       | 3          | 3            | 22.37                               | 22.42                                  | 22.22                                |
| 1.4             | QPSK       | 6          | 0            | 22.36                               | 22.22                                  | 22.15                                |
| 1.4             | 16QAM      | 1          | 0            | 23.11                               | 22.95                                  | 23.08                                |
| 1.4             | 16QAM      | 1          | 3            | 23.01                               | 22.95                                  | 22.98                                |
| 1.4             | 16QAM      | 1          | 5            | 22.89                               | 22.92                                  | 22.93                                |
| 1.4             | 16QAM      | 3          | 0            | 21.82                               | 22.07                                  | 21.87                                |
| 1.4             | 16QAM      | 3          | 1            | 21.78                               | 21.77                                  | 21.76                                |
| 1.4             | 16QAM      | 3          | 3            | 21.59                               | 21.77                                  | 21.81                                |
| 1.4             | 16QAM      | 6          | 0            | 21.79                               | 21.68                                  | 21.69                                |



| 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            | 23.75                               | 23.77                                  | 23.71                                |
| 20              | QPSK       | 1          | 49           | 23.66                               | 23.67                                  | 23.56                                |
| 20              | QPSK       | 1          | 99           | 23.57                               | 23.62                                  | 23.47                                |
| 20              | QPSK       | 50         | 0            | 22.55                               | 22.79                                  | 22.66                                |
| 20              | QPSK       | 50         | 24           | 22.50                               | 22.73                                  | 22.60                                |
| 20              | QPSK       | 50         | 50           | 22.44                               | 22.64                                  | 22.52                                |
| 20              | QPSK       | 100        | 0            | 22.38                               | 22.55                                  | 22.44                                |
| 20              | 16QAM      | 1          | 0            | 23.02                               | 23.17                                  | 23.02                                |
| 20              | 16QAM      | 1          | 49           | 22.84                               | 22.88                                  | 22.94                                |
| 20              | 16QAM      | 1          | 99           | 22.78                               | 22.89                                  | 22.88                                |
| 20              | 16QAM      | 50         | 0            | 21.92                               | 22.05                                  | 22.04                                |
| 20              | 16QAM      | 50         | 24           | 21.85                               | 21.81                                  | 21.80                                |
| 20              | 16QAM      | 50         | 50           | 21.75                               | 21.77                                  | 21.85                                |
| 20              | 16QAM      | 100        | 0            | 21.83                               | 21.84                                  | 21.73                                |



| 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            | 23.62                               | 23.67                                  | 23.60                                |
| 15              | QPSK       | 1          | 37           | 23.50                               | 23.48                                  | 23.44                                |
| 15              | QPSK       | 1          | 74           | 23.39                               | 23.48                                  | 23.26                                |
| 15              | QPSK       | 36         | 0            | 22.43                               | 22.60                                  | 22.46                                |
| 15              | QPSK       | 36         | 20           | 22.31                               | 22.64                                  | 22.41                                |
| 15              | QPSK       | 36         | 39           | 22.25                               | 22.49                                  | 22.29                                |
| 15              | QPSK       | 75         | 0            | 22.26                               | 22.42                                  | 22.33                                |
| 15              | 16QAM      | 1          | 0            | 22.82                               | 23.07                                  | 22.84                                |
| 15              | 16QAM      | 1          | 37           | 22.63                               | 22.73                                  | 22.82                                |
| 15              | 16QAM      | 1          | 74           | 22.67                               | 22.76                                  | 22.73                                |
| 15              | 16QAM      | 36         | 0            | 21.75                               | 21.88                                  | 21.94                                |
| 15              | 16QAM      | 36         | 20           | 21.76                               | 21.66                                  | 21.61                                |
| 15              | 16QAM      | 36         | 39           | 21.55                               | 21.61                                  | 21.76                                |
| 15              | 16QAM      | 75         | 0            | 21.61                               | 21.67                                  | 21.65                                |



| 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            | 23.67                               | 23.67                                  | 23.59                                |
| 10              | QPSK       | 1          | 25           | 23.48                               | 23.46                                  | 23.33                                |
| 10              | QPSK       | 1          | 49           | 23.39                               | 23.45                                  | 23.33                                |
| 10              | QPSK       | 25         | 0            | 22.46                               | 22.58                                  | 22.49                                |
| 10              | QPSK       | 25         | 12           | 22.39                               | 22.62                                  | 22.50                                |
| 10              | QPSK       | 25         | 25           | 22.32                               | 22.41                                  | 22.34                                |
| 10              | QPSK       | 50         | 0            | 22.24                               | 22.43                                  | 22.25                                |
| 10              | 16QAM      | 1          | 0            | 22.79                               | 23.00                                  | 22.85                                |
| 10              | 16QAM      | 1          | 25           | 22.68                               | 22.73                                  | 22.81                                |
| 10              | 16QAM      | 1          | 49           | 22.58                               | 22.67                                  | 22.65                                |
| 10              | 16QAM      | 25         | 0            | 21.70                               | 21.92                                  | 21.95                                |
| 10              | 16QAM      | 25         | 12           | 21.71                               | 21.65                                  | 21.65                                |
| 10              | 16QAM      | 25         | 25           | 21.54                               | 21.54                                  | 21.65                                |
| 10              | 16QAM      | 50         | 0            | 21.69                               | 21.62                                  | 21.61                                |



| 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            | 23.66                               | 23.63                                  | 23.57                                |
| 5               | QPSK       | 1          | 12           | 23.44                               | 23.48                                  | 23.36                                |
| 5               | QPSK       | 1          | 24           | 23.45                               | 23.48                                  | 23.27                                |
| 5               | QPSK       | 12         | 0            | 22.44                               | 22.62                                  | 22.55                                |
| 5               | QPSK       | 12         | 7            | 22.39                               | 22.60                                  | 22.47                                |
| 5               | QPSK       | 12         | 13           | 22.24                               | 22.50                                  | 22.38                                |
| 5               | QPSK       | 25         | 0            | 22.19                               | 22.33                                  | 22.23                                |
| 5               | 16QAM      | 1          | 0            | 22.85                               | 23.03                                  | 22.93                                |
| 5               | 16QAM      | 1          | 12           | 22.74                               | 22.73                                  | 22.84                                |
| 5               | 16QAM      | 1          | 24           | 22.69                               | 22.68                                  | 22.68                                |
| 5               | 16QAM      | 12         | 0            | 21.83                               | 21.85                                  | 21.91                                |
| 5               | 16QAM      | 12         | 7            | 21.76                               | 21.60                                  | 21.59                                |
| 5               | 16QAM      | 12         | 13           | 21.65                               | 21.68                                  | 21.68                                |
| 5               | 16QAM      | 25         | 0            | 21.64                               | 21.72                                  | 21.59                                |

**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         | 23.11             | 0.205 | 23.20              | 0.209 | 23.08            | 0.203 |
| 20              | QPSK       | 1       | 49        | 23.02             | 0.200 | 23.10              | 0.204 | 23.00            | 0.200 |
| 20              | QPSK       | 1       | 99        | 22.93             | 0.196 | 23.03              | 0.201 | 22.94            | 0.197 |
| 20              | QPSK       | 50      | 0         | 21.98             | 0.158 | 22.25              | 0.168 | 21.94            | 0.156 |
| 20              | QPSK       | 50      | 24        | 21.89             | 0.155 | 22.11              | 0.163 | 21.83            | 0.152 |
| 20              | QPSK       | 50      | 50        | 21.83             | 0.152 | 22.02              | 0.159 | 21.75            | 0.150 |
| 20              | QPSK       | 100     | 0         | 21.74             | 0.149 | 21.95              | 0.157 | 21.65            | 0.146 |
| 20              | 16QAM      | 1       | 0         | 22.40             | 0.174 | 22.43              | 0.175 | 22.31            | 0.170 |
| 20              | 16QAM      | 1       | 49        | 22.28             | 0.169 | 22.23              | 0.167 | 22.25            | 0.168 |
| 20              | 16QAM      | 1       | 99        | 22.18             | 0.165 | 22.25              | 0.168 | 22.18            | 0.165 |
| 20              | 16QAM      | 50      | 0         | 21.36             | 0.137 | 21.39              | 0.138 | 21.27            | 0.134 |
| 20              | 16QAM      | 50      | 24        | 21.22             | 0.132 | 21.28              | 0.134 | 21.29            | 0.135 |
| 20              | 16QAM      | 50      | 50        | 21.16             | 0.131 | 21.25              | 0.133 | 21.17            | 0.131 |
| 20              | 16QAM      | 100     | 0         | 21.25             | 0.133 | 21.20              | 0.132 | 21.22            | 0.132 |



| 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         | 23.05             | 0.202 | 23.16              | 0.207 | 23.03            | 0.201 |
| 15              | QPSK       | 1       | 37        | 22.84             | 0.192 | 22.93              | 0.196 | 22.77            | 0.189 |
| 15              | QPSK       | 1       | 74        | 22.84             | 0.192 | 22.80              | 0.191 | 22.84            | 0.192 |
| 15              | QPSK       | 36      | 0         | 21.79             | 0.151 | 22.04              | 0.160 | 21.79            | 0.151 |
| 15              | QPSK       | 36      | 20        | 21.73             | 0.149 | 21.89              | 0.155 | 21.72            | 0.149 |
| 15              | QPSK       | 36      | 39        | 21.68             | 0.147 | 21.91              | 0.155 | 21.61            | 0.145 |
| 15              | QPSK       | 75      | 0         | 21.54             | 0.143 | 21.76              | 0.150 | 21.54            | 0.143 |
| 15              | 16QAM      | 1       | 0         | 22.26             | 0.168 | 22.24              | 0.167 | 22.16            | 0.164 |
| 15              | 16QAM      | 1       | 37        | 22.10             | 0.162 | 22.11              | 0.163 | 22.04            | 0.160 |
| 15              | 16QAM      | 1       | 74        | 21.99             | 0.158 | 22.07              | 0.161 | 22.07            | 0.161 |
| 15              | 16QAM      | 36      | 0         | 21.26             | 0.134 | 21.27              | 0.134 | 21.09            | 0.129 |
| 15              | 16QAM      | 36      | 20        | 21.08             | 0.128 | 21.11              | 0.129 | 21.18            | 0.131 |
| 15              | 16QAM      | 36      | 39        | 20.95             | 0.124 | 21.17              | 0.131 | 21.06            | 0.128 |
| 15              | 16QAM      | 75      | 0         | 21.09             | 0.129 | 21.11              | 0.129 | 21.12            | 0.129 |



| 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         | 23.03             | 0.201 | 23.17              | 0.207 | 23.01            | 0.200 |
| 10              | QPSK       | 1       | 25        | 22.90             | 0.195 | 23.00              | 0.200 | 22.81            | 0.191 |
| 10              | QPSK       | 1       | 49        | 22.81             | 0.191 | 22.87              | 0.194 | 22.82            | 0.191 |
| 10              | QPSK       | 25      | 0         | 21.79             | 0.151 | 22.06              | 0.161 | 21.86            | 0.153 |
| 10              | QPSK       | 25      | 12        | 21.73             | 0.149 | 21.97              | 0.157 | 21.63            | 0.146 |
| 10              | QPSK       | 25      | 25        | 21.74             | 0.149 | 21.89              | 0.155 | 21.57            | 0.144 |
| 10              | QPSK       | 50      | 0         | 21.65             | 0.146 | 21.81              | 0.152 | 21.53            | 0.142 |
| 10              | 16QAM      | 1       | 0         | 22.26             | 0.168 | 22.28              | 0.169 | 22.10            | 0.162 |
| 10              | 16QAM      | 1       | 25        | 22.08             | 0.161 | 22.09              | 0.162 | 22.02            | 0.159 |
| 10              | 16QAM      | 1       | 49        | 21.97             | 0.157 | 22.12              | 0.163 | 22.08            | 0.161 |
| 10              | 16QAM      | 25      | 0         | 21.27             | 0.134 | 21.22              | 0.132 | 21.05            | 0.127 |
| 10              | 16QAM      | 25      | 12        | 21.10             | 0.129 | 21.19              | 0.132 | 21.09            | 0.129 |
| 10              | 16QAM      | 25      | 25        | 21.00             | 0.126 | 21.17              | 0.131 | 21.01            | 0.126 |
| 10              | 16QAM      | 50      | 0         | 21.06             | 0.128 | 21.03              | 0.127 | 21.00            | 0.126 |



| 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         | 23.04             | 0.201 | 23.13              | 0.206 | 23.01            | 0.200 |
| 5               | QPSK       | 1       | 12        | 22.93             | 0.196 | 22.98              | 0.199 | 22.78            | 0.190 |
| 5               | QPSK       | 1       | 24        | 22.85             | 0.193 | 22.89              | 0.195 | 22.78            | 0.190 |
| 5               | QPSK       | 12      | 0         | 21.86             | 0.153 | 22.02              | 0.159 | 21.72            | 0.149 |
| 5               | QPSK       | 12      | 7         | 21.71             | 0.148 | 21.92              | 0.156 | 21.74            | 0.149 |
| 5               | QPSK       | 12      | 13        | 21.73             | 0.149 | 21.92              | 0.156 | 21.53            | 0.142 |
| 5               | QPSK       | 25      | 0         | 21.59             | 0.144 | 21.83              | 0.152 | 21.47            | 0.140 |
| 5               | 16QAM      | 1       | 0         | 22.24             | 0.167 | 22.28              | 0.169 | 22.17            | 0.165 |
| 5               | 16QAM      | 1       | 12        | 22.08             | 0.161 | 22.13              | 0.163 | 22.06            | 0.161 |
| 5               | 16QAM      | 1       | 24        | 22.00             | 0.158 | 22.12              | 0.163 | 21.97            | 0.157 |
| 5               | 16QAM      | 12      | 0         | 21.22             | 0.132 | 21.30              | 0.135 | 21.13            | 0.130 |
| 5               | 16QAM      | 12      | 7         | 21.09             | 0.129 | 21.05              | 0.127 | 21.13            | 0.130 |
| 5               | 16QAM      | 12      | 13        | 21.06             | 0.128 | 21.07              | 0.128 | 21.02            | 0.126 |
| 5               | 16QAM      | 25      | 0         | 21.05             | 0.127 | 20.98              | 0.125 | 21.10            | 0.129 |



| 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         | 23.07             | 0.203 | 23.13              | 0.206 | 23.04            | 0.201 |
| 3               | QPSK       | 1       | 8         | 22.94             | 0.197 | 22.94              | 0.197 | 22.78            | 0.190 |
| 3               | QPSK       | 1       | 14        | 22.73             | 0.187 | 22.82              | 0.191 | 22.79            | 0.190 |
| 3               | QPSK       | 8       | 0         | 21.85             | 0.153 | 22.04              | 0.160 | 21.86            | 0.153 |
| 3               | QPSK       | 8       | 4         | 21.76             | 0.150 | 21.91              | 0.155 | 21.64            | 0.146 |
| 3               | QPSK       | 8       | 7         | 21.71             | 0.148 | 21.83              | 0.152 | 21.56            | 0.143 |
| 3               | QPSK       | 15      | 0         | 21.57             | 0.144 | 21.75              | 0.150 | 21.55            | 0.143 |
| 3               | 16QAM      | 1       | 0         | 22.28             | 0.169 | 22.28              | 0.169 | 22.22            | 0.167 |
| 3               | 16QAM      | 1       | 8         | 22.10             | 0.162 | 22.11              | 0.163 | 22.07            | 0.161 |
| 3               | 16QAM      | 1       | 14        | 22.04             | 0.160 | 22.17              | 0.165 | 22.01            | 0.159 |
| 3               | 16QAM      | 8       | 0         | 21.27             | 0.134 | 21.27              | 0.134 | 21.07            | 0.128 |
| 3               | 16QAM      | 8       | 4         | 21.03             | 0.127 | 21.07              | 0.128 | 21.07            | 0.128 |
| 3               | 16QAM      | 8       | 7         | 21.08             | 0.128 | 21.15              | 0.130 | 21.02            | 0.126 |
| 3               | 16QAM      | 15      | 0         | 21.04             | 0.127 | 21.03              | 0.127 | 21.03            | 0.127 |



| 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         | 23.03             | 0.201 | 23.12              | 0.205 | 23.01            | 0.200 |
| 1.4             | QPSK       | 1       | 3         | 22.85             | 0.193 | 22.99              | 0.199 | 22.79            | 0.190 |
| 1.4             | QPSK       | 1       | 5         | 22.81             | 0.191 | 22.88              | 0.194 | 22.73            | 0.187 |
| 1.4             | QPSK       | 3       | 0         | 21.75             | 0.150 | 22.10              | 0.162 | 21.86            | 0.153 |
| 1.4             | QPSK       | 3       | 1         | 21.78             | 0.151 | 21.95              | 0.157 | 21.60            | 0.145 |
| 1.4             | QPSK       | 3       | 3         | 21.67             | 0.147 | 21.88              | 0.154 | 21.60            | 0.145 |
| 1.4             | QPSK       | 6       | 0         | 21.62             | 0.145 | 21.72              | 0.149 | 21.56            | 0.143 |
| 1.4             | 16QAM      | 1       | 0         | 22.23             | 0.167 | 22.26              | 0.168 | 22.19            | 0.166 |
| 1.4             | 16QAM      | 1       | 3         | 22.07             | 0.161 | 22.05              | 0.160 | 22.13            | 0.163 |
| 1.4             | 16QAM      | 1       | 5         | 22.09             | 0.162 | 22.12              | 0.163 | 22.01            | 0.159 |
| 1.4             | 16QAM      | 3       | 0         | 21.24             | 0.133 | 21.21              | 0.132 | 21.07            | 0.128 |
| 1.4             | 16QAM      | 3       | 1         | 21.04             | 0.127 | 21.12              | 0.129 | 21.12            | 0.129 |
| 1.4             | 16QAM      | 3       | 3         | 20.98             | 0.125 | 21.04              | 0.127 | 20.94            | 0.124 |
| 1.4             | 16QAM      | 6       | 0         | 21.16             | 0.131 | 21.01              | 0.126 | 21.08            | 0.128 |



| 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            | 22.89              | 0.195 | 22.96                 | 0.198 | 22.89               | 0.195 |
| 20              | QPSK       | 1          | 49           | 22.78              | 0.190 | 22.89                 | 0.195 | 22.83               | 0.192 |
| 20              | QPSK       | 1          | 99           | 22.72              | 0.187 | 22.81                 | 0.191 | 22.73               | 0.187 |
| 20              | QPSK       | 50         | 0            | 21.67              | 0.147 | 21.84                 | 0.153 | 21.82               | 0.152 |
| 20              | QPSK       | 50         | 24           | 21.58              | 0.144 | 21.76                 | 0.150 | 21.67               | 0.147 |
| 20              | QPSK       | 50         | 50           | 21.51              | 0.142 | 21.68                 | 0.147 | 21.60               | 0.145 |
| 20              | QPSK       | 100        | 0            | 21.45              | 0.140 | 21.62                 | 0.145 | 21.50               | 0.141 |
| 20              | 16QAM      | 1          | 0            | 22.18              | 0.165 | 22.32                 | 0.171 | 22.29               | 0.169 |
| 20              | 16QAM      | 1          | 49           | 22.03              | 0.160 | 22.04                 | 0.160 | 22.07               | 0.161 |
| 20              | 16QAM      | 1          | 99           | 22.04              | 0.160 | 21.97                 | 0.157 | 22.08               | 0.161 |
| 20              | 16QAM      | 50         | 0            | 21.19              | 0.132 | 21.06                 | 0.128 | 21.01               | 0.126 |
| 20              | 16QAM      | 50         | 24           | 21.06              | 0.128 | 21.11                 | 0.129 | 21.10               | 0.129 |
| 20              | 16QAM      | 50         | 50           | 21.08              | 0.128 | 21.06                 | 0.128 | 21.02               | 0.126 |
| 20              | 16QAM      | 100        | 0            | 21.08              | 0.128 | 20.99                 | 0.126 | 21.09               | 0.129 |



| 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            | 22.77              | 0.189 | 22.83                 | 0.192 | 22.80               | 0.191 |
| 15              | QPSK       | 1          | 37           | 22.65              | 0.184 | 22.71                 | 0.187 | 22.73               | 0.187 |
| 15              | QPSK       | 1          | 74           | 22.53              | 0.179 | 22.72                 | 0.187 | 22.59               | 0.182 |
| 15              | QPSK       | 36         | 0            | 21.53              | 0.142 | 21.75                 | 0.150 | 21.73               | 0.149 |
| 15              | QPSK       | 36         | 20           | 21.46              | 0.140 | 21.65                 | 0.146 | 21.45               | 0.140 |
| 15              | QPSK       | 36         | 39           | 21.39              | 0.138 | 21.55                 | 0.143 | 21.49               | 0.141 |
| 15              | QPSK       | 75         | 0            | 21.35              | 0.136 | 21.44                 | 0.139 | 21.34               | 0.136 |
| 15              | 16QAM      | 1          | 0            | 22.00              | 0.158 | 22.14                 | 0.164 | 22.20               | 0.166 |
| 15              | 16QAM      | 1          | 37           | 21.92              | 0.156 | 21.88                 | 0.154 | 21.88               | 0.154 |
| 15              | 16QAM      | 1          | 74           | 21.89              | 0.155 | 21.89                 | 0.155 | 21.92               | 0.156 |
| 15              | 16QAM      | 36         | 0            | 21.06              | 0.128 | 20.88                 | 0.122 | 20.81               | 0.121 |
| 15              | 16QAM      | 36         | 20           | 20.89              | 0.123 | 21.01                 | 0.126 | 20.88               | 0.122 |
| 15              | 16QAM      | 36         | 39           | 20.92              | 0.124 | 20.84                 | 0.121 | 20.80               | 0.120 |
| 15              | 16QAM      | 75         | 0            | 21.04              | 0.127 | 20.89                 | 0.123 | 21.04               | 0.127 |



| 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            | 22.75              | 0.188 | 22.86                 | 0.193 | 22.81               | 0.191 |
| 10              | QPSK       | 1          | 25           | 22.61              | 0.182 | 22.76                 | 0.189 | 22.67               | 0.185 |
| 10              | QPSK       | 1          | 49           | 22.52              | 0.179 | 22.65                 | 0.184 | 22.60               | 0.182 |
| 10              | QPSK       | 25         | 0            | 21.49              | 0.141 | 21.74                 | 0.149 | 21.61               | 0.145 |
| 10              | QPSK       | 25         | 12           | 21.50              | 0.141 | 21.64                 | 0.146 | 21.53               | 0.142 |
| 10              | QPSK       | 25         | 25           | 21.39              | 0.138 | 21.49                 | 0.141 | 21.43               | 0.139 |
| 10              | QPSK       | 50         | 0            | 21.35              | 0.136 | 21.44                 | 0.139 | 21.33               | 0.136 |
| 10              | 16QAM      | 1          | 0            | 21.95              | 0.157 | 22.24                 | 0.167 | 22.09               | 0.162 |
| 10              | 16QAM      | 1          | 25           | 21.89              | 0.155 | 21.91                 | 0.155 | 21.98               | 0.158 |
| 10              | 16QAM      | 1          | 49           | 21.94              | 0.156 | 21.82                 | 0.152 | 21.90               | 0.155 |
| 10              | 16QAM      | 25         | 0            | 21.01              | 0.126 | 20.94                 | 0.124 | 20.87               | 0.122 |
| 10              | 16QAM      | 25         | 12           | 20.88              | 0.122 | 21.00                 | 0.126 | 21.01               | 0.126 |
| 10              | 16QAM      | 25         | 25           | 20.98              | 0.125 | 20.92                 | 0.124 | 20.80               | 0.120 |
| 10              | 16QAM      | 50         | 0            | 20.99              | 0.126 | 20.78                 | 0.120 | 20.92               | 0.124 |



| 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            | 22.79              | 0.190 | 22.89                 | 0.195 | 22.80               | 0.191 |
| 5               | QPSK       | 1          | 12           | 22.57              | 0.181 | 22.68                 | 0.185 | 22.60               | 0.182 |
| 5               | QPSK       | 1          | 24           | 22.54              | 0.179 | 22.68                 | 0.185 | 22.60               | 0.182 |
| 5               | QPSK       | 12         | 0            | 21.51              | 0.142 | 21.69                 | 0.148 | 21.71               | 0.148 |
| 5               | QPSK       | 12         | 7            | 21.42              | 0.139 | 21.57                 | 0.144 | 21.55               | 0.143 |
| 5               | QPSK       | 12         | 13           | 21.28              | 0.134 | 21.47                 | 0.140 | 21.47               | 0.140 |
| 5               | QPSK       | 25         | 0            | 21.32              | 0.136 | 21.49                 | 0.141 | 21.28               | 0.134 |
| 5               | 16QAM      | 1          | 0            | 22.10              | 0.162 | 22.19                 | 0.166 | 22.13               | 0.163 |
| 5               | 16QAM      | 1          | 12           | 21.81              | 0.152 | 21.87                 | 0.154 | 21.86               | 0.153 |
| 5               | 16QAM      | 1          | 24           | 21.92              | 0.156 | 21.81                 | 0.152 | 21.94               | 0.156 |
| 5               | 16QAM      | 12         | 0            | 21.03              | 0.127 | 20.90                 | 0.123 | 20.90               | 0.123 |
| 5               | 16QAM      | 12         | 7            | 20.94              | 0.124 | 20.94                 | 0.124 | 20.90               | 0.123 |
| 5               | 16QAM      | 12         | 13           | 20.96              | 0.125 | 20.92                 | 0.124 | 20.84               | 0.121 |
| 5               | 16QAM      | 25         | 0            | 20.89              | 0.123 | 20.79                 | 0.120 | 20.87               | 0.122 |



| 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            | 22.83              | 0.192 | 22.89                 | 0.195 | 22.78               | 0.190 |
| 3               | QPSK       | 1          | 8            | 22.63              | 0.183 | 22.72                 | 0.187 | 22.74               | 0.188 |
| 3               | QPSK       | 1          | 14           | 22.52              | 0.179 | 22.59                 | 0.182 | 22.61               | 0.182 |
| 3               | QPSK       | 8          | 0            | 21.46              | 0.140 | 21.75                 | 0.150 | 21.65               | 0.146 |
| 3               | QPSK       | 8          | 4            | 21.44              | 0.139 | 21.55                 | 0.143 | 21.45               | 0.140 |
| 3               | QPSK       | 8          | 7            | 21.40              | 0.138 | 21.57                 | 0.144 | 21.50               | 0.141 |
| 3               | QPSK       | 15         | 0            | 21.34              | 0.136 | 21.53                 | 0.142 | 21.36               | 0.137 |
| 3               | 16QAM      | 1          | 0            | 21.97              | 0.157 | 22.19                 | 0.166 | 22.15               | 0.164 |
| 3               | 16QAM      | 1          | 8            | 21.86              | 0.153 | 21.86                 | 0.153 | 21.92               | 0.156 |
| 3               | 16QAM      | 1          | 14           | 21.82              | 0.152 | 21.75                 | 0.150 | 21.96               | 0.157 |
| 3               | 16QAM      | 8          | 0            | 20.98              | 0.125 | 20.94                 | 0.124 | 20.90               | 0.123 |
| 3               | 16QAM      | 8          | 4            | 20.90              | 0.123 | 21.01                 | 0.126 | 20.95               | 0.124 |
| 3               | 16QAM      | 8          | 7            | 20.92              | 0.124 | 20.96                 | 0.125 | 20.79               | 0.120 |
| 3               | 16QAM      | 15         | 0            | 20.92              | 0.124 | 20.80                 | 0.120 | 20.88               | 0.122 |



| 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            | 22.76              | 0.189 | 22.84                 | 0.192 | 22.76               | 0.189 |
| 1.4             | QPSK       | 1          | 3            | 22.59              | 0.182 | 22.75                 | 0.188 | 22.63               | 0.183 |
| 1.4             | QPSK       | 1          | 5            | 22.60              | 0.182 | 22.60                 | 0.182 | 22.52               | 0.179 |
| 1.4             | QPSK       | 3          | 0            | 21.47              | 0.140 | 21.68                 | 0.147 | 21.63               | 0.146 |
| 1.4             | QPSK       | 3          | 1            | 21.48              | 0.141 | 21.60                 | 0.145 | 21.48               | 0.141 |
| 1.4             | QPSK       | 3          | 3            | 21.32              | 0.136 | 21.50                 | 0.141 | 21.46               | 0.140 |
| 1.4             | QPSK       | 6          | 0            | 21.35              | 0.136 | 21.52                 | 0.142 | 21.35               | 0.136 |
| 1.4             | 16QAM      | 1          | 0            | 22.09              | 0.162 | 22.21                 | 0.166 | 22.20               | 0.166 |
| 1.4             | 16QAM      | 1          | 3            | 21.85              | 0.153 | 21.92                 | 0.156 | 21.98               | 0.158 |
| 1.4             | 16QAM      | 1          | 5            | 21.90              | 0.155 | 21.87                 | 0.154 | 21.93               | 0.156 |
| 1.4             | 16QAM      | 3          | 0            | 21.02              | 0.126 | 20.85                 | 0.122 | 20.84               | 0.121 |
| 1.4             | 16QAM      | 3          | 1            | 20.89              | 0.123 | 20.96                 | 0.125 | 20.96               | 0.125 |
| 1.4             | 16QAM      | 3          | 3            | 20.98              | 0.125 | 20.84                 | 0.121 | 20.88               | 0.122 |
| 1.4             | 16QAM      | 6          | 0            | 20.88              | 0.122 | 20.84                 | 0.121 | 20.90               | 0.123 |



| 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            | 19.18              | 0.083 | 19.25                 | 0.084 | 19.11               | 0.081 |
| 10              | QPSK       | 1       | 25           | 19.04              | 0.080 | 19.13                 | 0.082 | 19.04               | 0.080 |
| 10              | QPSK       | 1       | 49           | 18.94              | 0.078 | 19.04                 | 0.080 | 18.96               | 0.079 |
| 10              | QPSK       | 25      | 0            | 17.92              | 0.062 | 18.17                 | 0.066 | 17.95               | 0.062 |
| 10              | QPSK       | 25      | 12           | 17.78              | 0.060 | 18.03                 | 0.064 | 17.87               | 0.061 |
| 10              | QPSK       | 25      | 25           | 17.71              | 0.059 | 17.96                 | 0.063 | 17.79               | 0.060 |
| 10              | QPSK       | 50      | 0            | 17.65              | 0.058 | 17.87                 | 0.061 | 17.71               | 0.059 |
| 10              | 16QAM      | 1       | 0            | 18.50              | 0.071 | 18.47                 | 0.070 | 18.40               | 0.069 |
| 10              | 16QAM      | 1       | 25           | 18.43              | 0.070 | 18.31                 | 0.068 | 18.33               | 0.068 |
| 10              | 16QAM      | 1       | 49           | 18.29              | 0.067 | 18.34                 | 0.068 | 18.28               | 0.067 |
| 10              | 16QAM      | 25      | 0            | 17.53              | 0.057 | 17.28                 | 0.053 | 17.35               | 0.054 |
| 10              | 16QAM      | 25      | 12           | 17.39              | 0.055 | 17.46                 | 0.056 | 17.41               | 0.055 |
| 10              | 16QAM      | 25      | 25           | 17.34              | 0.054 | 17.46                 | 0.056 | 17.44               | 0.055 |
| 10              | 16QAM      | 50      | 0            | 17.36              | 0.054 | 17.35                 | 0.054 | 17.43               | 0.055 |



| 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            | 19.06              | 0.081 | 19.13                 | 0.082 | 19.06               | 0.081 |
| 5               | QPSK       | 1       | 12           | 18.88              | 0.077 | 19.03                 | 0.080 | 18.96               | 0.079 |
| 5               | QPSK       | 1       | 24           | 18.73              | 0.075 | 18.92                 | 0.078 | 18.83               | 0.076 |
| 5               | QPSK       | 12      | 0            | 17.71              | 0.059 | 17.98                 | 0.063 | 17.77               | 0.060 |
| 5               | QPSK       | 12      | 7            | 17.68              | 0.059 | 17.87                 | 0.061 | 17.73               | 0.059 |
| 5               | QPSK       | 12      | 13           | 17.56              | 0.057 | 17.84                 | 0.061 | 17.64               | 0.058 |
| 5               | QPSK       | 25      | 0            | 17.48              | 0.056 | 17.72                 | 0.059 | 17.59               | 0.057 |
| 5               | 16QAM      | 1       | 0            | 18.35              | 0.068 | 18.38                 | 0.069 | 18.27               | 0.067 |
| 5               | 16QAM      | 1       | 12           | 18.34              | 0.068 | 18.22                 | 0.066 | 18.23               | 0.067 |
| 5               | 16QAM      | 1       | 24           | 18.18              | 0.066 | 18.17                 | 0.066 | 18.20               | 0.066 |
| 5               | 16QAM      | 12      | 0            | 17.30              | 0.054 | 17.11                 | 0.051 | 17.22               | 0.053 |
| 5               | 16QAM      | 12      | 7            | 17.18              | 0.052 | 17.31                 | 0.054 | 17.26               | 0.053 |
| 5               | 16QAM      | 12      | 13           | 17.14              | 0.052 | 17.34                 | 0.054 | 17.31               | 0.054 |
| 5               | 16QAM      | 25      | 0            | 17.24              | 0.053 | 17.24                 | 0.053 | 17.23               | 0.053 |



| 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            | 19.08              | 0.081 | 19.16                 | 0.082 | 19.03               | 0.080 |
| 3               | QPSK       | 1       | 8            | 18.85              | 0.077 | 19.05                 | 0.080 | 18.88               | 0.077 |
| 3               | QPSK       | 1       | 14           | 18.73              | 0.075 | 18.93                 | 0.078 | 18.76               | 0.075 |
| 3               | QPSK       | 8       | 0            | 17.76              | 0.060 | 17.97                 | 0.063 | 17.84               | 0.061 |
| 3               | QPSK       | 8       | 4            | 17.60              | 0.058 | 17.87                 | 0.061 | 17.68               | 0.059 |
| 3               | QPSK       | 8       | 7            | 17.52              | 0.056 | 17.83                 | 0.061 | 17.64               | 0.058 |
| 3               | QPSK       | 15      | 0            | 17.56              | 0.057 | 17.76                 | 0.060 | 17.62               | 0.058 |
| 3               | 16QAM      | 1       | 0            | 18.36              | 0.069 | 18.27                 | 0.067 | 18.26               | 0.067 |
| 3               | 16QAM      | 1       | 8            | 18.24              | 0.067 | 18.14                 | 0.065 | 18.18               | 0.066 |
| 3               | 16QAM      | 1       | 14           | 18.14              | 0.065 | 18.20                 | 0.066 | 18.19               | 0.066 |
| 3               | 16QAM      | 8       | 0            | 17.32              | 0.054 | 17.11                 | 0.051 | 17.26               | 0.053 |
| 3               | 16QAM      | 8       | 4            | 17.21              | 0.053 | 17.32                 | 0.054 | 17.30               | 0.054 |
| 3               | 16QAM      | 8       | 7            | 17.23              | 0.053 | 17.30                 | 0.054 | 17.25               | 0.053 |
| 3               | 16QAM      | 15      | 0            | 17.16              | 0.052 | 17.17                 | 0.052 | 17.28               | 0.053 |



| 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            | 19.08              | 0.081 | 19.18                 | 0.083 | 18.97               | 0.079 |
| 1.4             | QPSK       | 1       | 3            | 18.94              | 0.078 | 19.04                 | 0.080 | 18.82               | 0.076 |
| 1.4             | QPSK       | 1       | 5            | 18.76              | 0.075 | 18.86                 | 0.077 | 18.74               | 0.075 |
| 1.4             | QPSK       | 3       | 0            | 17.78              | 0.060 | 17.95                 | 0.062 | 17.81               | 0.060 |
| 1.4             | QPSK       | 3       | 1            | 17.64              | 0.058 | 17.90                 | 0.062 | 17.76               | 0.060 |
| 1.4             | QPSK       | 3       | 3            | 17.51              | 0.056 | 17.84                 | 0.061 | 17.59               | 0.057 |
| 1.4             | QPSK       | 6       | 0            | 17.43              | 0.055 | 17.65                 | 0.058 | 17.60               | 0.058 |
| 1.4             | 16QAM      | 1       | 0            | 18.31              | 0.068 | 18.27                 | 0.067 | 18.28               | 0.067 |
| 1.4             | 16QAM      | 1       | 3            | 18.28              | 0.067 | 18.10                 | 0.065 | 18.15               | 0.065 |
| 1.4             | 16QAM      | 1       | 5            | 18.09              | 0.064 | 18.14                 | 0.065 | 18.13               | 0.065 |
| 1.4             | 16QAM      | 3       | 0            | 17.32              | 0.054 | 17.18                 | 0.052 | 17.21               | 0.053 |
| 1.4             | 16QAM      | 3       | 1            | 17.26              | 0.053 | 17.30                 | 0.054 | 17.26               | 0.053 |
| 1.4             | 16QAM      | 3       | 3            | 17.21              | 0.053 | 17.26                 | 0.053 | 17.22               | 0.053 |
| 1.4             | 16QAM      | 6       | 0            | 17.25              | 0.053 | 17.16                 | 0.052 | 17.35               | 0.054 |



| 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            | 21.21              | 0.132 | 21.29                 | 0.135 | 21.21               | 0.132 |
| 10              | QPSK       | 1       | 25           | 21.10              | 0.129 | 21.15                 | 0.130 | 21.13               | 0.130 |
| 10              | QPSK       | 1       | 49           | 21.05              | 0.127 | 21.05                 | 0.127 | 21.05               | 0.127 |
| 10              | QPSK       | 25      | 0            | 20.00              | 0.100 | 20.04                 | 0.101 | 20.27               | 0.106 |
| 10              | QPSK       | 25      | 12           | 19.94              | 0.099 | 19.97                 | 0.099 | 20.16               | 0.104 |
| 10              | QPSK       | 25      | 25           | 19.88              | 0.097 | 19.91                 | 0.098 | 20.09               | 0.102 |
| 10              | QPSK       | 50      | 0            | 19.81              | 0.096 | 19.83                 | 0.096 | 20.01               | 0.100 |
| 10              | 16QAM      | 1       | 0            | 20.57              | 0.114 | 20.46                 | 0.111 | 20.59               | 0.115 |
| 10              | 16QAM      | 1       | 25           | 20.49              | 0.112 | 20.49                 | 0.112 | 20.45               | 0.111 |
| 10              | 16QAM      | 1       | 49           | 20.43              | 0.110 | 20.41                 | 0.110 | 20.40               | 0.110 |
| 10              | 16QAM      | 25      | 0            | 19.35              | 0.086 | 19.45                 | 0.088 | 19.52               | 0.090 |
| 10              | 16QAM      | 25      | 12           | 19.25              | 0.084 | 19.28                 | 0.085 | 19.25               | 0.084 |
| 10              | 16QAM      | 25      | 25           | 19.25              | 0.084 | 19.28                 | 0.085 | 19.21               | 0.083 |
| 10              | 16QAM      | 50      | 0            | 19.15              | 0.082 | 19.17                 | 0.083 | 19.22               | 0.084 |



| 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            | 21.14              | 0.130 | 21.20                 | 0.132 | 21.13               | 0.130 |
| 5               | QPSK       | 1       | 12           | 20.95              | 0.124 | 21.07                 | 0.128 | 20.93               | 0.124 |
| 5               | QPSK       | 1       | 24           | 20.87              | 0.122 | 20.93                 | 0.124 | 20.91               | 0.123 |
| 5               | QPSK       | 12      | 0            | 19.81              | 0.096 | 19.89                 | 0.097 | 20.10               | 0.102 |
| 5               | QPSK       | 12      | 7            | 19.77              | 0.095 | 19.85                 | 0.097 | 19.97               | 0.099 |
| 5               | QPSK       | 12      | 13           | 19.78              | 0.095 | 19.68                 | 0.093 | 20.01               | 0.100 |
| 5               | QPSK       | 25      | 0            | 19.66              | 0.092 | 19.70                 | 0.093 | 19.78               | 0.095 |
| 5               | 16QAM      | 1       | 0            | 20.36              | 0.109 | 20.23                 | 0.105 | 20.38               | 0.109 |
| 5               | 16QAM      | 1       | 12           | 20.36              | 0.109 | 20.28                 | 0.107 | 20.35               | 0.108 |
| 5               | 16QAM      | 1       | 24           | 20.23              | 0.105 | 20.30                 | 0.107 | 20.25               | 0.106 |
| 5               | 16QAM      | 12      | 0            | 19.15              | 0.082 | 19.24                 | 0.084 | 19.40               | 0.087 |
| 5               | 16QAM      | 12      | 7            | 19.07              | 0.081 | 19.08                 | 0.081 | 19.06               | 0.081 |
| 5               | 16QAM      | 12      | 13           | 19.07              | 0.081 | 19.10                 | 0.081 | 19.11               | 0.081 |
| 5               | 16QAM      | 25      | 0            | 18.94              | 0.078 | 19.08                 | 0.081 | 19.00               | 0.079 |



| 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            | 21.11              | 0.129 | 21.19                 | 0.132 | 21.06               | 0.128 |
| 3               | QPSK       | 1       | 8            | 20.94              | 0.124 | 21.04                 | 0.127 | 21.05               | 0.127 |
| 3               | QPSK       | 1       | 14           | 20.85              | 0.122 | 20.90                 | 0.123 | 20.94               | 0.124 |
| 3               | QPSK       | 8       | 0            | 19.85              | 0.097 | 19.91                 | 0.098 | 20.14               | 0.103 |
| 3               | QPSK       | 8       | 4            | 19.84              | 0.096 | 19.85                 | 0.097 | 19.99               | 0.100 |
| 3               | QPSK       | 8       | 7            | 19.73              | 0.094 | 19.78                 | 0.095 | 20.00               | 0.100 |
| 3               | QPSK       | 15      | 0            | 19.71              | 0.094 | 19.70                 | 0.093 | 19.90               | 0.098 |
| 3               | 16QAM      | 1       | 0            | 20.44              | 0.111 | 20.36                 | 0.109 | 20.38               | 0.109 |
| 3               | 16QAM      | 1       | 8            | 20.31              | 0.107 | 20.27                 | 0.106 | 20.32               | 0.108 |
| 3               | 16QAM      | 1       | 14           | 20.22              | 0.105 | 20.28                 | 0.107 | 20.23               | 0.105 |
| 3               | 16QAM      | 8       | 0            | 19.12              | 0.082 | 19.23                 | 0.084 | 19.35               | 0.086 |
| 3               | 16QAM      | 8       | 4            | 19.09              | 0.081 | 19.14                 | 0.082 | 19.03               | 0.080 |
| 3               | 16QAM      | 8       | 7            | 19.08              | 0.081 | 19.15                 | 0.082 | 19.12               | 0.082 |
| 3               | 16QAM      | 15      | 0            | 19.04              | 0.080 | 19.09                 | 0.081 | 19.12               | 0.082 |



| 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         |            |         |              | 23017              |       | 23095                 |       | 23173               |       |
| Frequency (MHz) |            |         |              | 699.7              |       | 707.5                 |       | 715.3               |       |
|                 |            |         |              | dBm                | W     | dBm                   | W     | dBm                 | W     |
| 1.4             | QPSK       | 1       | 0            | 21.12              | 0.129 | 21.19                 | 0.132 | 21.12               | 0.129 |
| 1.4             | QPSK       | 1       | 3            | 20.88              | 0.122 | 20.96                 | 0.125 | 20.99               | 0.126 |
| 1.4             | QPSK       | 1       | 5            | 20.90              | 0.123 | 20.87                 | 0.122 | 20.90               | 0.123 |
| 1.4             | QPSK       | 3       | 0            | 19.91              | 0.098 | 19.94                 | 0.099 | 20.09               | 0.102 |
| 1.4             | QPSK       | 3       | 1            | 19.76              | 0.095 | 19.78                 | 0.095 | 20.06               | 0.101 |
| 1.4             | QPSK       | 3       | 3            | 19.79              | 0.095 | 19.72                 | 0.094 | 19.91               | 0.098 |
| 1.4             | QPSK       | 6       | 0            | 19.59              | 0.091 | 19.69                 | 0.093 | 19.84               | 0.096 |
| 1.4             | 16QAM      | 1       | 0            | 20.35              | 0.108 | 20.28                 | 0.107 | 20.39               | 0.109 |
| 1.4             | 16QAM      | 1       | 3            | 20.27              | 0.106 | 20.35                 | 0.108 | 20.30               | 0.107 |
| 1.4             | 16QAM      | 1       | 5            | 20.28              | 0.107 | 20.19                 | 0.104 | 20.21               | 0.105 |
| 1.4             | 16QAM      | 3       | 0            | 19.18              | 0.083 | 19.25                 | 0.084 | 19.34               | 0.086 |
| 1.4             | 16QAM      | 3       | 1            | 19.07              | 0.081 | 19.09                 | 0.081 | 19.05               | 0.080 |
| 1.4             | 16QAM      | 3       | 3            | 19.06              | 0.081 | 19.07                 | 0.081 | 19.10               | 0.081 |
| 1.4             | 16QAM      | 6       | 0            | 18.98              | 0.079 | 18.94                 | 0.078 | 19.02               | 0.080 |



| 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            | 21.28              | 0.134 | 21.35                 | 0.136 | 21.33               | 0.136 |
| 10              | QPSK       | 1       | 25           | 21.16              | 0.131 | 21.30                 | 0.135 | 21.25               | 0.133 |
| 10              | QPSK       | 1       | 49           | 21.11              | 0.129 | 21.22                 | 0.132 | 21.18               | 0.131 |
| 10              | QPSK       | 25      | 0            | 20.32              | 0.108 | 20.42                 | 0.110 | 20.39               | 0.109 |
| 10              | QPSK       | 25      | 12           | 20.18              | 0.104 | 20.31                 | 0.107 | 20.32               | 0.108 |
| 10              | QPSK       | 25      | 25           | 20.10              | 0.102 | 20.24                 | 0.106 | 20.25               | 0.106 |
| 10              | QPSK       | 50      | 0            | 20.01              | 0.100 | 20.17                 | 0.104 | 20.18               | 0.104 |
| 10              | 16QAM      | 1       | 0            | 20.66              | 0.116 | 20.49                 | 0.112 | 20.67               | 0.117 |
| 10              | 16QAM      | 1       | 25           | 20.50              | 0.112 | 20.53                 | 0.113 | 20.49               | 0.112 |
| 10              | 16QAM      | 1       | 49           | 20.45              | 0.111 | 20.44                 | 0.111 | 20.41               | 0.110 |
| 10              | 16QAM      | 25      | 0            | 19.43              | 0.088 | 19.61                 | 0.091 | 19.38               | 0.087 |
| 10              | 16QAM      | 25      | 12           | 19.31              | 0.085 | 19.34                 | 0.086 | 19.34               | 0.086 |
| 10              | 16QAM      | 25      | 25           | 19.37              | 0.086 | 19.31                 | 0.085 | 19.24               | 0.084 |
| 10              | 16QAM      | 50      | 0            | 19.34              | 0.086 | 19.28                 | 0.085 | 19.30               | 0.085 |



| LTE Band 17     |            |         |           | Measured E.R.P. |       |                    |       |                  |       |
|-----------------|------------|---------|-----------|-----------------|-------|--------------------|-------|------------------|-------|
| BW [MHz]        | Modulation | RB Size | RB Offset | Low Ch. / Freq. |       | Middle Ch. / Freq. |       | High Ch. / Freq. |       |
| Channel         |            |         |           | 23755           |       | 23790              |       | 23825            |       |
| Frequency (MHz) |            |         |           | 706.5           |       | 710                |       | 713.5            |       |
|                 |            |         |           | dBm             | W     | dBm                | W     | dBm              | W     |
| 5               | QPSK       | 1       | 0         | 21.21           | 0.132 | 21.28              | 0.134 | 21.25            | 0.133 |
| 5               | QPSK       | 1       | 12        | 20.99           | 0.126 | 21.08              | 0.128 | 21.05            | 0.127 |
| 5               | QPSK       | 1       | 24        | 20.90           | 0.123 | 21.01              | 0.126 | 21.06            | 0.128 |
| 5               | QPSK       | 12      | 0         | 20.19           | 0.104 | 20.29              | 0.107 | 20.27            | 0.106 |
| 5               | QPSK       | 12      | 7         | 19.95           | 0.099 | 20.23              | 0.105 | 20.18            | 0.104 |
| 5               | QPSK       | 12      | 13        | 19.91           | 0.098 | 20.02              | 0.100 | 20.12            | 0.103 |
| 5               | QPSK       | 25      | 0         | 19.90           | 0.098 | 19.95              | 0.099 | 20.02            | 0.100 |
| 5               | 16QAM      | 1       | 0         | 20.45           | 0.111 | 20.29              | 0.107 | 20.58            | 0.114 |
| 5               | 16QAM      | 1       | 12        | 20.35           | 0.108 | 20.33              | 0.108 | 20.27            | 0.106 |
| 5               | 16QAM      | 1       | 24        | 20.23           | 0.105 | 20.24              | 0.106 | 20.24            | 0.106 |
| 5               | 16QAM      | 12      | 0         | 19.30           | 0.085 | 19.49              | 0.089 | 19.27            | 0.085 |
| 5               | 16QAM      | 12      | 7         | 19.13           | 0.082 | 19.19              | 0.083 | 19.20            | 0.083 |
| 5               | 16QAM      | 12      | 13        | 19.18           | 0.083 | 19.12              | 0.082 | 19.08            | 0.081 |
| 5               | 16QAM      | 25      | 0         | 19.23           | 0.084 | 19.11              | 0.081 | 19.09            | 0.081 |



| 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            | 22.98              | 0.199 | 22.99                 | 0.199 | 22.90               | 0.195 |
| 20              | QPSK       | 1          | 49           | 22.91              | 0.195 | 22.92                 | 0.196 | 22.79               | 0.190 |
| 20              | QPSK       | 1          | 99           | 22.84              | 0.192 | 22.83                 | 0.192 | 22.70               | 0.186 |
| 20              | QPSK       | 50         | 0            | 21.85              | 0.153 | 21.79                 | 0.151 | 21.60               | 0.145 |
| 20              | QPSK       | 50         | 24           | 21.79              | 0.151 | 21.71                 | 0.148 | 21.51               | 0.142 |
| 20              | QPSK       | 50         | 50           | 21.71              | 0.148 | 21.63                 | 0.146 | 21.44               | 0.139 |
| 20              | QPSK       | 100        | 0            | 21.63              | 0.146 | 21.54                 | 0.143 | 21.38               | 0.137 |
| 20              | 16QAM      | 1          | 0            | 22.35              | 0.172 | 22.24                 | 0.167 | 22.35               | 0.172 |
| 20              | 16QAM      | 1          | 49           | 22.22              | 0.167 | 22.25                 | 0.168 | 22.24               | 0.167 |
| 20              | 16QAM      | 1          | 99           | 22.14              | 0.164 | 22.19                 | 0.166 | 22.22               | 0.167 |
| 20              | 16QAM      | 50         | 0            | 21.10              | 0.129 | 21.32                 | 0.136 | 21.15               | 0.130 |
| 20              | 16QAM      | 50         | 24           | 20.99              | 0.126 | 21.02                 | 0.126 | 21.03               | 0.127 |
| 20              | 16QAM      | 50         | 50           | 20.90              | 0.123 | 20.98                 | 0.125 | 21.02               | 0.126 |
| 20              | 16QAM      | 100        | 0            | 21.02              | 0.126 | 20.91                 | 0.123 | 20.96               | 0.125 |



| 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            | 22.86              | 0.193 | 22.93                 | 0.196 | 22.76               | 0.189 |
| 15              | QPSK       | 1          | 37           | 22.83              | 0.192 | 22.82                 | 0.191 | 22.62               | 0.183 |
| 15              | QPSK       | 1          | 74           | 22.66              | 0.185 | 22.65                 | 0.184 | 22.58               | 0.181 |
| 15              | QPSK       | 36         | 0            | 21.69              | 0.148 | 21.70                 | 0.148 | 21.48               | 0.141 |
| 15              | QPSK       | 36         | 20           | 21.60              | 0.145 | 21.55                 | 0.143 | 21.36               | 0.137 |
| 15              | QPSK       | 36         | 39           | 21.59              | 0.144 | 21.52                 | 0.142 | 21.29               | 0.135 |
| 15              | QPSK       | 75         | 0            | 21.46              | 0.140 | 21.42                 | 0.139 | 21.22               | 0.132 |
| 15              | 16QAM      | 1          | 0            | 22.15              | 0.164 | 22.09                 | 0.162 | 22.16               | 0.164 |
| 15              | 16QAM      | 1          | 37           | 22.08              | 0.161 | 22.07                 | 0.161 | 22.10               | 0.162 |
| 15              | 16QAM      | 1          | 74           | 22.03              | 0.160 | 22.04                 | 0.160 | 22.03               | 0.160 |
| 15              | 16QAM      | 36         | 0            | 20.96              | 0.125 | 21.22                 | 0.132 | 20.97               | 0.125 |
| 15              | 16QAM      | 36         | 20           | 20.91              | 0.123 | 20.80                 | 0.120 | 20.86               | 0.122 |
| 15              | 16QAM      | 36         | 39           | 20.80              | 0.120 | 20.82                 | 0.121 | 20.91               | 0.123 |
| 15              | 16QAM      | 75         | 0            | 20.83              | 0.121 | 20.83                 | 0.121 | 20.85               | 0.122 |



| 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            | 22.91              | 0.195 | 22.85                 | 0.193 | 22.75               | 0.188 |
| 10              | QPSK       | 1          | 25           | 22.72              | 0.187 | 22.74                 | 0.188 | 22.58               | 0.181 |
| 10              | QPSK       | 1          | 49           | 22.66              | 0.185 | 22.74                 | 0.188 | 22.60               | 0.182 |
| 10              | QPSK       | 25         | 0            | 21.73              | 0.149 | 21.69                 | 0.148 | 21.51               | 0.142 |
| 10              | QPSK       | 25         | 12           | 21.60              | 0.145 | 21.51                 | 0.142 | 21.32               | 0.136 |
| 10              | QPSK       | 25         | 25           | 21.61              | 0.145 | 21.45                 | 0.140 | 21.30               | 0.135 |
| 10              | QPSK       | 50         | 0            | 21.54              | 0.143 | 21.45                 | 0.140 | 21.19               | 0.132 |
| 10              | 16QAM      | 1          | 0            | 22.26              | 0.168 | 22.04                 | 0.160 | 22.17               | 0.165 |
| 10              | 16QAM      | 1          | 25           | 22.06              | 0.161 | 22.14                 | 0.164 | 22.07               | 0.161 |
| 10              | 16QAM      | 1          | 49           | 22.00              | 0.158 | 22.08                 | 0.161 | 22.00               | 0.158 |
| 10              | 16QAM      | 25         | 0            | 20.93              | 0.124 | 21.11                 | 0.129 | 21.05               | 0.127 |
| 10              | 16QAM      | 25         | 12           | 20.86              | 0.122 | 20.79                 | 0.120 | 20.89               | 0.123 |
| 10              | 16QAM      | 25         | 25           | 20.77              | 0.119 | 20.84                 | 0.121 | 20.81               | 0.121 |
| 10              | 16QAM      | 50         | 0            | 20.83              | 0.121 | 20.75                 | 0.119 | 20.85               | 0.122 |



| 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            | 22.84              | 0.192 | 22.86                 | 0.193 | 22.84               | 0.192 |
| 5               | QPSK       | 1          | 12           | 22.78              | 0.190 | 22.83                 | 0.192 | 22.60               | 0.182 |
| 5               | QPSK       | 1          | 24           | 22.63              | 0.183 | 22.69                 | 0.186 | 22.61               | 0.182 |
| 5               | QPSK       | 12         | 0            | 21.67              | 0.147 | 21.64                 | 0.146 | 21.51               | 0.142 |
| 5               | QPSK       | 12         | 7            | 21.66              | 0.147 | 21.50                 | 0.141 | 21.39               | 0.138 |
| 5               | QPSK       | 12         | 13           | 21.60              | 0.145 | 21.53                 | 0.142 | 21.33               | 0.136 |
| 5               | QPSK       | 25         | 0            | 21.50              | 0.141 | 21.36                 | 0.137 | 21.25               | 0.133 |
| 5               | 16QAM      | 1          | 0            | 22.15              | 0.164 | 22.02                 | 0.159 | 22.12               | 0.163 |
| 5               | 16QAM      | 1          | 12           | 22.05              | 0.160 | 22.13                 | 0.163 | 22.07               | 0.161 |
| 5               | 16QAM      | 1          | 24           | 21.92              | 0.156 | 22.00                 | 0.158 | 22.12               | 0.163 |
| 5               | 16QAM      | 12         | 0            | 20.99              | 0.126 | 21.14                 | 0.130 | 21.00               | 0.126 |
| 5               | 16QAM      | 12         | 7            | 20.85              | 0.122 | 20.86                 | 0.122 | 20.81               | 0.121 |
| 5               | 16QAM      | 12         | 13           | 20.75              | 0.119 | 20.83                 | 0.121 | 20.86               | 0.122 |
| 5               | 16QAM      | 25         | 0            | 20.85              | 0.122 | 20.77                 | 0.119 | 20.78               | 0.120 |



| 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            | 22.88              | 0.194 | 22.92                 | 0.196 | 22.77               | 0.189 |
| 3               | QPSK       | 1          | 8            | 22.78              | 0.190 | 22.83                 | 0.192 | 22.61               | 0.182 |
| 3               | QPSK       | 1          | 14           | 22.74              | 0.188 | 22.70                 | 0.186 | 22.60               | 0.182 |
| 3               | QPSK       | 8          | 0            | 21.74              | 0.149 | 21.57                 | 0.144 | 21.52               | 0.142 |
| 3               | QPSK       | 8          | 4            | 21.66              | 0.147 | 21.50                 | 0.141 | 21.28               | 0.134 |
| 3               | QPSK       | 8          | 7            | 21.55              | 0.143 | 21.44                 | 0.139 | 21.31               | 0.135 |
| 3               | QPSK       | 15         | 0            | 21.54              | 0.143 | 21.33                 | 0.136 | 21.19               | 0.132 |
| 3               | 16QAM      | 1          | 0            | 22.16              | 0.164 | 22.09                 | 0.162 | 22.14               | 0.164 |
| 3               | 16QAM      | 1          | 8            | 22.02              | 0.159 | 22.08                 | 0.161 | 22.03               | 0.160 |
| 3               | 16QAM      | 1          | 14           | 21.92              | 0.156 | 22.09                 | 0.162 | 22.00               | 0.158 |
| 3               | 16QAM      | 8          | 0            | 20.99              | 0.126 | 21.21                 | 0.132 | 20.97               | 0.125 |
| 3               | 16QAM      | 8          | 4            | 20.81              | 0.121 | 20.91                 | 0.123 | 20.86               | 0.122 |
| 3               | 16QAM      | 8          | 7            | 20.72              | 0.118 | 20.88                 | 0.122 | 20.88               | 0.122 |
| 3               | 16QAM      | 15         | 0            | 20.91              | 0.123 | 20.72                 | 0.118 | 20.80               | 0.120 |



| 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            | 22.91              | 0.195 | 22.88                 | 0.194 | 22.79               | 0.190 |
| 1.4             | QPSK       | 1          | 3            | 22.76              | 0.189 | 22.81                 | 0.191 | 22.61               | 0.182 |
| 1.4             | QPSK       | 1          | 5            | 22.69              | 0.186 | 22.71                 | 0.187 | 22.53               | 0.179 |
| 1.4             | QPSK       | 3          | 0            | 21.67              | 0.147 | 21.63                 | 0.146 | 21.40               | 0.138 |
| 1.4             | QPSK       | 3          | 1            | 21.61              | 0.145 | 21.57                 | 0.144 | 21.32               | 0.136 |
| 1.4             | QPSK       | 3          | 3            | 21.49              | 0.141 | 21.54                 | 0.143 | 21.34               | 0.136 |
| 1.4             | QPSK       | 6          | 0            | 21.48              | 0.141 | 21.34                 | 0.136 | 21.27               | 0.134 |
| 1.4             | 16QAM      | 1          | 0            | 22.23              | 0.167 | 22.07                 | 0.161 | 22.20               | 0.166 |
| 1.4             | 16QAM      | 1          | 3            | 22.13              | 0.163 | 22.07                 | 0.161 | 22.10               | 0.162 |
| 1.4             | 16QAM      | 1          | 5            | 22.01              | 0.159 | 22.04                 | 0.160 | 22.05               | 0.160 |
| 1.4             | 16QAM      | 3          | 0            | 20.94              | 0.124 | 21.19                 | 0.132 | 20.99               | 0.126 |
| 1.4             | 16QAM      | 3          | 1            | 20.90              | 0.123 | 20.89                 | 0.123 | 20.88               | 0.122 |
| 1.4             | 16QAM      | 3          | 3            | 20.71              | 0.118 | 20.89                 | 0.123 | 20.93               | 0.124 |
| 1.4             | 16QAM      | 6          | 0            | 20.91              | 0.123 | 20.80                 | 0.120 | 20.81               | 0.121 |



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| 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            | 19.24              | 0.084 | 19.26                 | 0.084 | 19.20               | 0.083 |
| 20              | QPSK       | 1          | 49           | 19.15              | 0.082 | 19.16                 | 0.082 | 19.05               | 0.080 |
| 20              | QPSK       | 1          | 99           | 19.06              | 0.081 | 19.11                 | 0.081 | 18.96               | 0.079 |
| 20              | QPSK       | 50         | 0            | 18.04              | 0.064 | 18.28                 | 0.067 | 18.15               | 0.065 |
| 20              | QPSK       | 50         | 24           | 17.99              | 0.063 | 18.22                 | 0.066 | 18.09               | 0.064 |
| 20              | QPSK       | 50         | 50           | 17.93              | 0.062 | 18.13                 | 0.065 | 18.01               | 0.063 |
| 20              | QPSK       | 100        | 0            | 17.87              | 0.061 | 18.04                 | 0.064 | 17.93               | 0.062 |
| 20              | 16QAM      | 1          | 0            | 18.51              | 0.071 | 18.66                 | 0.073 | 18.51               | 0.071 |
| 20              | 16QAM      | 1          | 49           | 18.33              | 0.068 | 18.37                 | 0.069 | 18.43               | 0.070 |
| 20              | 16QAM      | 1          | 99           | 18.27              | 0.067 | 18.38                 | 0.069 | 18.37               | 0.069 |
| 20              | 16QAM      | 50         | 0            | 17.41              | 0.055 | 17.54                 | 0.057 | 17.53               | 0.057 |
| 20              | 16QAM      | 50         | 24           | 17.34              | 0.054 | 17.30                 | 0.054 | 17.29               | 0.054 |
| 20              | 16QAM      | 50         | 50           | 17.24              | 0.053 | 17.26                 | 0.053 | 17.34               | 0.054 |
| 20              | 16QAM      | 100        | 0            | 17.32              | 0.054 | 17.33                 | 0.054 | 17.22               | 0.053 |



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| 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            | 19.11              | 0.081 | 19.16                 | 0.082 | 19.09               | 0.081 |
| 15              | QPSK       | 1          | 37           | 18.99              | 0.079 | 18.97                 | 0.079 | 18.93               | 0.078 |
| 15              | QPSK       | 1          | 74           | 18.88              | 0.077 | 18.97                 | 0.079 | 18.75               | 0.075 |
| 15              | QPSK       | 36         | 0            | 17.92              | 0.062 | 18.09                 | 0.064 | 17.95               | 0.062 |
| 15              | QPSK       | 36         | 20           | 17.80              | 0.060 | 18.13                 | 0.065 | 17.90               | 0.062 |
| 15              | QPSK       | 36         | 39           | 17.74              | 0.059 | 17.98                 | 0.063 | 17.78               | 0.060 |
| 15              | QPSK       | 75         | 0            | 17.75              | 0.060 | 17.91                 | 0.062 | 17.82               | 0.061 |
| 15              | 16QAM      | 1          | 0            | 18.31              | 0.068 | 18.56                 | 0.072 | 18.33               | 0.068 |
| 15              | 16QAM      | 1          | 37           | 18.12              | 0.065 | 18.22                 | 0.066 | 18.31               | 0.068 |
| 15              | 16QAM      | 1          | 74           | 18.16              | 0.065 | 18.25                 | 0.067 | 18.22               | 0.066 |
| 15              | 16QAM      | 36         | 0            | 17.24              | 0.053 | 17.37                 | 0.055 | 17.43               | 0.055 |
| 15              | 16QAM      | 36         | 20           | 17.25              | 0.053 | 17.15                 | 0.052 | 17.10               | 0.051 |
| 15              | 16QAM      | 36         | 39           | 17.04              | 0.051 | 17.10                 | 0.051 | 17.25               | 0.053 |
| 15              | 16QAM      | 75         | 0            | 17.10              | 0.051 | 17.16                 | 0.052 | 17.14               | 0.052 |



| 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            | 19.16              | 0.082 | 19.16                 | 0.082 | 19.08               | 0.081 |
| 10              | QPSK       | 1          | 25           | 18.97              | 0.079 | 18.95                 | 0.079 | 18.82               | 0.076 |
| 10              | QPSK       | 1          | 49           | 18.88              | 0.077 | 18.94                 | 0.078 | 18.82               | 0.076 |
| 10              | QPSK       | 25         | 0            | 17.95              | 0.062 | 18.07                 | 0.064 | 17.98               | 0.063 |
| 10              | QPSK       | 25         | 12           | 17.88              | 0.061 | 18.11                 | 0.065 | 17.99               | 0.063 |
| 10              | QPSK       | 25         | 25           | 17.81              | 0.060 | 17.90                 | 0.062 | 17.83               | 0.061 |
| 10              | QPSK       | 50         | 0            | 17.73              | 0.059 | 17.92                 | 0.062 | 17.74               | 0.059 |
| 10              | 16QAM      | 1          | 0            | 18.28              | 0.067 | 18.49                 | 0.071 | 18.34               | 0.068 |
| 10              | 16QAM      | 1          | 25           | 18.17              | 0.066 | 18.22                 | 0.066 | 18.30               | 0.068 |
| 10              | 16QAM      | 1          | 49           | 18.07              | 0.064 | 18.16                 | 0.065 | 18.14               | 0.065 |
| 10              | 16QAM      | 25         | 0            | 17.19              | 0.052 | 17.41                 | 0.055 | 17.44               | 0.055 |
| 10              | 16QAM      | 25         | 12           | 17.20              | 0.052 | 17.14                 | 0.052 | 17.14               | 0.052 |
| 10              | 16QAM      | 25         | 25           | 17.03              | 0.050 | 17.03                 | 0.050 | 17.14               | 0.052 |
| 10              | 16QAM      | 50         | 0            | 17.18              | 0.052 | 17.11                 | 0.051 | 17.10               | 0.051 |



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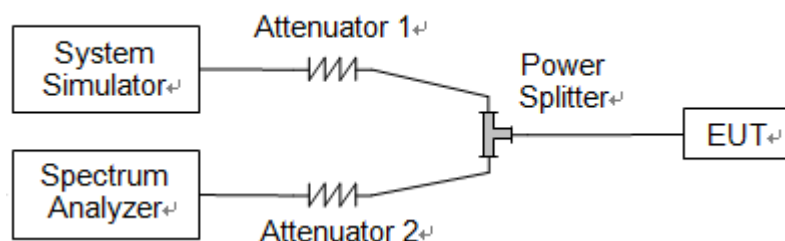
| LTE Band 71     |            |            |              | Measured E.I.R.P.  |       |                       |       |                     |       |
|-----------------|------------|------------|--------------|--------------------|-------|-----------------------|-------|---------------------|-------|
| 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            | 19.15              | 0.082 | 19.12                 | 0.082 | 19.06               | 0.081 |
| 5               | QPSK       | 1          | 12           | 18.93              | 0.078 | 18.97                 | 0.079 | 18.85               | 0.077 |
| 5               | QPSK       | 1          | 24           | 18.94              | 0.078 | 18.97                 | 0.079 | 18.76               | 0.075 |
| 5               | QPSK       | 12         | 0            | 17.93              | 0.062 | 18.11                 | 0.065 | 18.04               | 0.064 |
| 5               | QPSK       | 12         | 7            | 17.88              | 0.061 | 18.09                 | 0.064 | 17.96               | 0.063 |
| 5               | QPSK       | 12         | 13           | 17.73              | 0.059 | 17.99                 | 0.063 | 17.87               | 0.061 |
| 5               | QPSK       | 25         | 0            | 17.68              | 0.059 | 17.82                 | 0.061 | 17.72               | 0.059 |
| 5               | 16QAM      | 1          | 0            | 18.34              | 0.068 | 18.52                 | 0.071 | 18.42               | 0.070 |
| 5               | 16QAM      | 1          | 12           | 18.23              | 0.067 | 18.22                 | 0.066 | 18.33               | 0.068 |
| 5               | 16QAM      | 1          | 24           | 18.18              | 0.066 | 18.17                 | 0.066 | 18.17               | 0.066 |
| 5               | 16QAM      | 12         | 0            | 17.32              | 0.054 | 17.34                 | 0.054 | 17.40               | 0.055 |
| 5               | 16QAM      | 12         | 7            | 17.25              | 0.053 | 17.09                 | 0.051 | 17.08               | 0.051 |
| 5               | 16QAM      | 12         | 13           | 17.14              | 0.052 | 17.17                 | 0.052 | 17.17               | 0.052 |
| 5               | 16QAM      | 25         | 0            | 17.13              | 0.052 | 17.21                 | 0.053 | 17.08               | 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 | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B2       | 1.4     | Low           | 18607   | 1850.7          | QPSK       | 1.0931       | 1.2430        | PASS    |
| B2       | 1.4     | Low           | 18607   | 1850.7          | 16QAM      | 1.0993       | 1.2571        | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | QPSK       | 1.0977       | 1.2588        | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | 16QAM      | 1.1007       | 1.2574        | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | QPSK       | 1.1012       | 1.2498        | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | 16QAM      | 1.1043       | 1.2495        | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | QPSK       | 2.7188       | 3.0496        | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | 16QAM      | 2.7053       | 3.0576        | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | QPSK       | 2.7136       | 3.0661        | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | 16QAM      | 2.7124       | 3.0743        | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | QPSK       | 2.7209       | 3.0660        | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | 16QAM      | 2.7198       | 3.0681        | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | QPSK       | 4.4745       | 4.8932        | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | 16QAM      | 4.4794       | 4.9237        | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | QPSK       | 4.4732       | 4.9144        | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | 16QAM      | 4.4699       | 4.8938        | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | QPSK       | 4.4733       | 4.8916        | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | 16QAM      | 4.4766       | 4.9236        | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | QPSK       | 8.9473       | 9.7689        | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | 16QAM      | 8.9336       | 9.7067        | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | QPSK       | 8.9650       | 9.7841        | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | 16QAM      | 8.9405       | 9.7013        | PASS    |
| B2       | 10      | High          | 19150   | 1905            | QPSK       | 8.9602       | 9.7755        | PASS    |
| B2       | 10      | High          | 19150   | 1905            | 16QAM      | 8.9302       | 9.6754        | PASS    |
| B2       | 15      | Low           | 18675   | 1857.5          | QPSK       | 13.445       | 14.526        | PASS    |
| B2       | 15      | Low           | 18675   | 1857.5          | 16QAM      | 13.411       | 14.727        | PASS    |
| B2       | 15      | Mid           | 18900   | 1880            | QPSK       | 13.453       | 14.626        | PASS    |
| B2       | 15      | Mid           | 18900   | 1880            | 16QAM      | 13.421       | 14.860        | PASS    |
| B2       | 15      | High          | 19125   | 1902.5          | QPSK       | 13.419       | 14.687        | PASS    |
| B2       | 15      | High          | 19125   | 1902.5          | 16QAM      | 13.415       | 14.667        | PASS    |
| B2       | 20      | Low           | 18700   | 1860            | QPSK       | 17.896       | 19.347        | PASS    |
| B2       | 20      | Low           | 18700   | 1860            | 16QAM      | 17.910       | 19.430        | PASS    |
| B2       | 20      | Mid           | 18900   | 1880            | QPSK       | 17.907       | 19.453        | PASS    |



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|    |    |      |       |      |       |        |        |      |
|----|----|------|-------|------|-------|--------|--------|------|
| B2 | 20 | Mid  | 18900 | 1880 | 16QAM | 17.900 | 19.437 | PASS |
| B2 | 20 | High | 19100 | 1900 | QPSK  | 17.903 | 19.412 | PASS |
| B2 | 20 | High | 19100 | 1900 | 16QAM | 17.884 | 19.591 | PASS |

| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B4       | 1.4     | Low           | 19957   | 1710.7          | QPSK       | 1.0986       | 1.2504        | PASS    |
| B4       | 1.4     | Low           | 19957   | 1710.7          | 16QAM      | 1.0991       | 1.2528        | PASS    |
| B4       | 1.4     | Mid           | 20175   | 1732.5          | QPSK       | 1.0955       | 1.2426        | PASS    |
| B4       | 1.4     | Mid           | 20175   | 1732.5          | 16QAM      | 1.0976       | 1.2508        | PASS    |
| B4       | 1.4     | High          | 20393   | 1754.3          | QPSK       | 1.0945       | 1.2467        | PASS    |
| B4       | 1.4     | High          | 20393   | 1754.3          | 16QAM      | 1.1003       | 1.2552        | PASS    |
| B4       | 3       | Low           | 19965   | 1711.5          | QPSK       | 2.7195       | 3.0628        | PASS    |
| B4       | 3       | Low           | 19965   | 1711.5          | 16QAM      | 2.7228       | 3.0578        | PASS    |
| B4       | 3       | Mid           | 20175   | 1732.5          | QPSK       | 2.7163       | 3.0345        | PASS    |
| B4       | 3       | Mid           | 20175   | 1732.5          | 16QAM      | 2.7202       | 3.0585        | PASS    |
| B4       | 3       | High          | 20385   | 1753.5          | QPSK       | 2.7120       | 3.0412        | PASS    |
| B4       | 3       | High          | 20385   | 1753.5          | 16QAM      | 2.7130       | 3.0444        | PASS    |
| B4       | 5       | Low           | 19975   | 1712.5          | QPSK       | 4.4715       | 4.8941        | PASS    |
| B4       | 5       | Low           | 19975   | 1712.5          | 16QAM      | 4.4626       | 4.9216        | PASS    |
| B4       | 5       | Mid           | 20175   | 1732.5          | QPSK       | 4.4715       | 4.9004        | PASS    |
| B4       | 5       | Mid           | 20175   | 1732.5          | 16QAM      | 4.4756       | 4.9068        | PASS    |
| B4       | 5       | High          | 20375   | 1752.5          | QPSK       | 4.4654       | 4.8819        | PASS    |
| B4       | 5       | High          | 20375   | 1752.5          | 16QAM      | 4.4802       | 4.8952        | PASS    |
| B4       | 10      | Low           | 20000   | 1715            | QPSK       | 8.9690       | 9.7815        | PASS    |
| B4       | 10      | Low           | 20000   | 1715            | 16QAM      | 8.9382       | 9.6805        | PASS    |
| B4       | 10      | Mid           | 20175   | 1732.5          | QPSK       | 8.9406       | 9.6603        | PASS    |
| B4       | 10      | Mid           | 20175   | 1732.5          | 16QAM      | 8.9336       | 9.6665        | PASS    |
| B4       | 10      | High          | 20350   | 1750            | QPSK       | 8.9499       | 9.6440        | PASS    |
| B4       | 10      | High          | 20350   | 1750            | 16QAM      | 8.9338       | 9.6725        | PASS    |
| B4       | 15      | Low           | 20025   | 1717.5          | QPSK       | 13.419       | 14.611        | PASS    |
| B4       | 15      | Low           | 20025   | 1717.5          | 16QAM      | 13.437       | 14.749        | PASS    |
| B4       | 15      | Mid           | 20175   | 1732.5          | QPSK       | 13.442       | 14.672        | PASS    |
| B4       | 15      | Mid           | 20175   | 1732.5          | 16QAM      | 13.426       | 14.788        | PASS    |
| B4       | 15      | High          | 20325   | 1747.5          | QPSK       | 13.427       | 14.577        | PASS    |
| B4       | 15      | High          | 20325   | 1747.5          | 16QAM      | 13.409       | 14.588        | PASS    |
| B4       | 20      | Low           | 20050   | 1720            | QPSK       | 17.882       | 19.396        | PASS    |



|    |    |      |       |        |       |        |        |      |
|----|----|------|-------|--------|-------|--------|--------|------|
| B4 | 20 | Low  | 20050 | 1720   | 16QAM | 17.925 | 19.590 | PASS |
| B4 | 20 | Mid  | 20175 | 1732.5 | QPSK  | 17.913 | 19.314 | PASS |
| B4 | 20 | Mid  | 20175 | 1732.5 | 16QAM | 17.923 | 19.437 | PASS |
| B4 | 20 | High | 20300 | 1745   | QPSK  | 17.892 | 19.472 | PASS |
| B4 | 20 | High | 20300 | 1745   | 16QAM | 17.917 | 19.480 | PASS |

| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B5       | 1.4     | Low           | 20407   | 824.7           | QPSK       | 1.0971       | 1.2441        | PASS    |
| B5       | 1.4     | Low           | 20407   | 824.7           | 16QAM      | 1.0987       | 1.2522        | PASS    |
| B5       | 1.4     | Mid           | 20525   | 836.5           | QPSK       | 1.0951       | 1.2414        | PASS    |
| B5       | 1.4     | Mid           | 20525   | 836.5           | 16QAM      | 1.0986       | 1.2477        | PASS    |
| B5       | 1.4     | High          | 20643   | 848.3           | QPSK       | 1.0950       | 1.2362        | PASS    |
| B5       | 1.4     | High          | 20643   | 848.3           | 16QAM      | 1.0970       | 1.2454        | PASS    |
| B5       | 3       | Low           | 20415   | 825.5           | QPSK       | 2.7188       | 3.0636        | PASS    |
| B5       | 3       | Low           | 20415   | 825.5           | 16QAM      | 2.7052       | 3.0576        | PASS    |
| B5       | 3       | Mid           | 20525   | 836.5           | QPSK       | 2.7166       | 3.0501        | PASS    |
| B5       | 3       | Mid           | 20525   | 836.5           | 16QAM      | 2.7158       | 3.0665        | PASS    |
| B5       | 3       | High          | 20635   | 847.5           | QPSK       | 2.7130       | 3.0462        | PASS    |
| B5       | 3       | High          | 20635   | 847.5           | 16QAM      | 2.7304       | 2.9976        | PASS    |
| B5       | 5       | Low           | 20425   | 826.5           | QPSK       | 4.4727       | 4.9042        | PASS    |
| B5       | 5       | Low           | 20425   | 826.5           | 16QAM      | 4.4629       | 4.9024        | PASS    |
| B5       | 5       | Mid           | 20525   | 836.5           | QPSK       | 4.4687       | 4.8794        | PASS    |
| B5       | 5       | Mid           | 20525   | 836.5           | 16QAM      | 4.4679       | 4.9153        | PASS    |
| B5       | 5       | High          | 20625   | 846.5           | QPSK       | 4.4709       | 4.8862        | PASS    |
| B5       | 5       | High          | 20625   | 846.5           | 16QAM      | 4.4649       | 4.9169        | PASS    |
| B5       | 10      | Low           | 20450   | 829             | QPSK       | 8.9692       | 9.7263        | PASS    |
| B5       | 10      | Low           | 20450   | 829             | 16QAM      | 8.9232       | 9.6946        | PASS    |
| B5       | 10      | Mid           | 20525   | 836.5           | QPSK       | 8.9495       | 9.7568        | PASS    |
| B5       | 10      | Mid           | 20525   | 836.5           | 16QAM      | 8.9319       | 9.6880        | PASS    |
| B5       | 10      | High          | 20600   | 844             | QPSK       | 8.9449       | 9.6988        | PASS    |
| B5       | 10      | High          | 20600   | 844             | 16QAM      | 8.9351       | 9.6585        | PASS    |



| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B12      | 1.4     | Low           | 23017   | 699.7           | QPSK       | 1.0909       | 1.2250        | PASS    |
| B12      | 1.4     | Low           | 23017   | 699.7           | 16QAM      | 1.0994       | 1.2485        | PASS    |
| B12      | 1.4     | Mid           | 23095   | 707.5           | QPSK       | 1.0992       | 1.2484        | PASS    |
| B12      | 1.4     | Mid           | 23095   | 707.5           | 16QAM      | 1.0975       | 1.2512        | PASS    |
| B12      | 1.4     | High          | 23173   | 715.3           | QPSK       | 1.0997       | 1.2456        | PASS    |
| B12      | 1.4     | High          | 23173   | 715.3           | 16QAM      | 1.0990       | 1.2506        | PASS    |
| B12      | 3       | Low           | 23025   | 700.5           | QPSK       | 2.7142       | 3.0422        | PASS    |
| B12      | 3       | Low           | 23025   | 700.5           | 16QAM      | 2.7176       | 3.0544        | PASS    |
| B12      | 3       | Mid           | 23095   | 707.5           | QPSK       | 2.7090       | 3.0293        | PASS    |
| B12      | 3       | Mid           | 23095   | 707.5           | 16QAM      | 2.7106       | 3.0688        | PASS    |
| B12      | 3       | High          | 23165   | 714.5           | QPSK       | 2.7168       | 3.0444        | PASS    |
| B12      | 3       | High          | 23165   | 714.5           | 16QAM      | 2.7079       | 3.0513        | PASS    |
| B12      | 5       | Low           | 23035   | 701.5           | QPSK       | 4.4697       | 4.8769        | PASS    |
| B12      | 5       | Low           | 23035   | 701.5           | 16QAM      | 4.4746       | 4.9186        | PASS    |
| B12      | 5       | Mid           | 23095   | 707.5           | QPSK       | 4.4756       | 4.8692        | PASS    |
| B12      | 5       | Mid           | 23095   | 707.5           | 16QAM      | 4.4663       | 4.9353        | PASS    |
| B12      | 5       | High          | 23155   | 713.5           | QPSK       | 4.4701       | 4.8975        | PASS    |
| B12      | 5       | High          | 23155   | 713.5           | 16QAM      | 4.4737       | 4.9082        | PASS    |
| B12      | 10      | Low           | 23060   | 704             | QPSK       | 8.9595       | 9.7843        | PASS    |
| B12      | 10      | Low           | 23060   | 704             | 16QAM      | 8.9414       | 9.7290        | PASS    |
| B12      | 10      | Mid           | 23095   | 707.5           | QPSK       | 8.9642       | 9.7171        | PASS    |
| B12      | 10      | Mid           | 23095   | 707.5           | 16QAM      | 8.9328       | 9.6529        | PASS    |
| B12      | 10      | High          | 23130   | 711             | QPSK       | 8.9510       | 9.7324        | PASS    |
| B12      | 10      | High          | 23130   | 711             | 16QAM      | 8.9076       | 9.6606        | PASS    |



| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B17      | 5       | Low           | 23755   | 706.5           | QPSK       | 4.4713       | 4.7267        | PASS    |
| B17      | 5       | Low           | 23755   | 706.5           | 16QAM      | 4.4639       | 4.8688        | PASS    |
| B17      | 5       | Mid           | 23790   | 710             | QPSK       | 4.4706       | 4.8751        | PASS    |
| B17      | 5       | Mid           | 23790   | 710             | 16QAM      | 4.4651       | 4.8751        | PASS    |
| B17      | 5       | High          | 23825   | 713.5           | QPSK       | 4.4662       | 4.8809        | PASS    |
| B17      | 5       | High          | 23825   | 713.5           | 16QAM      | 4.4623       | 4.8815        | PASS    |
| B17      | 10      | Low           | 23780   | 709             | QPSK       | 8.9289       | 9.7689        | PASS    |
| B17      | 10      | Low           | 23780   | 709             | 16QAM      | 8.9182       | 9.6686        | PASS    |
| B17      | 10      | Mid           | 23790   | 710             | QPSK       | 8.9470       | 9.7587        | PASS    |
| B17      | 10      | Mid           | 23790   | 710             | 16QAM      | 8.9112       | 9.6624        | PASS    |
| B17      | 10      | High          | 23800   | 711             | QPSK       | 8.9538       | 9.7352        | PASS    |
| B17      | 10      | High          | 23800   | 711             | 16QAM      | 8.9093       | 9.6310        | PASS    |



| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B66      | 1.4     | Low           | 131979  | 1710.7          | QPSK       | 1.1026       | 1.2542        | PASS    |
| B66      | 1.4     | Low           | 131979  | 1710.7          | 16QAM      | 1.1007       | 1.2538        | PASS    |
| B66      | 1.4     | Mid           | 132322  | 1745            | QPSK       | 1.0997       | 1.2476        | PASS    |
| B66      | 1.4     | Mid           | 132322  | 1745            | 16QAM      | 1.1025       | 1.2529        | PASS    |
| B66      | 1.4     | High          | 132665  | 1779.3          | QPSK       | 1.0989       | 1.2455        | PASS    |
| B66      | 1.4     | High          | 132665  | 1779.3          | 16QAM      | 1.1005       | 1.2568        | PASS    |
| B66      | 3       | Low           | 131987  | 1711.5          | QPSK       | 2.7178       | 3.0446        | PASS    |
| B66      | 3       | Low           | 131987  | 1711.5          | 16QAM      | 2.7231       | 3.0619        | PASS    |
| B66      | 3       | Mid           | 132322  | 1745            | QPSK       | 2.7159       | 3.0436        | PASS    |
| B66      | 3       | Mid           | 132322  | 1745            | 16QAM      | 2.7128       | 3.0339        | PASS    |
| B66      | 3       | High          | 132657  | 1778.5          | QPSK       | 2.7215       | 3.0200        | PASS    |
| B66      | 3       | High          | 132657  | 1778.5          | 16QAM      | 2.7227       | 3.0530        | PASS    |
| B66      | 5       | Low           | 131997  | 1712.5          | QPSK       | 4.4764       | 4.8838        | PASS    |
| B66      | 5       | Low           | 131997  | 1712.5          | 16QAM      | 4.4772       | 4.8909        | PASS    |
| B66      | 5       | Mid           | 132322  | 1745            | QPSK       | 4.4740       | 4.9001        | PASS    |
| B66      | 5       | Mid           | 132322  | 1745            | 16QAM      | 4.4756       | 4.9159        | PASS    |
| B66      | 5       | High          | 132647  | 1777.5          | QPSK       | 4.4730       | 4.8796        | PASS    |
| B66      | 5       | High          | 132647  | 1777.5          | 16QAM      | 4.4751       | 4.9120        | PASS    |
| B66      | 10      | Low           | 132022  | 1715            | QPSK       | 8.9592       | 9.7582        | PASS    |
| B66      | 10      | Low           | 132022  | 1715            | 16QAM      | 8.9276       | 9.6643        | PASS    |
| B66      | 10      | Mid           | 132322  | 1745            | QPSK       | 8.9628       | 9.7339        | PASS    |
| B66      | 10      | Mid           | 132322  | 1745            | 16QAM      | 8.9354       | 9.6665        | PASS    |
| B66      | 10      | High          | 132622  | 1775            | QPSK       | 8.9654       | 9.7512        | PASS    |
| B66      | 10      | High          | 132622  | 1775            | 16QAM      | 8.9280       | 9.6914        | PASS    |
| B66      | 15      | Low           | 132047  | 1717.5          | QPSK       | 13.436       | 14.646        | PASS    |
| B66      | 15      | Low           | 132047  | 1717.5          | 16QAM      | 13.413       | 14.849        | PASS    |
| B66      | 15      | Mid           | 132322  | 1745            | QPSK       | 13.442       | 14.609        | PASS    |
| B66      | 15      | Mid           | 132322  | 1745            | 16QAM      | 13.441       | 14.844        | PASS    |
| B66      | 15      | High          | 132597  | 1772.5          | QPSK       | 13.439       | 14.630        | PASS    |
| B66      | 15      | High          | 132597  | 1772.5          | 16QAM      | 13.432       | 14.791        | PASS    |
| B66      | 20      | Low           | 132072  | 1720            | QPSK       | 17.907       | 19.454        | PASS    |
| B66      | 20      | Low           | 132072  | 1720            | 16QAM      | 17.937       | 19.361        | PASS    |
| B66      | 20      | Mid           | 132322  | 1745            | QPSK       | 17.925       | 19.428        | PASS    |
| B66      | 20      | Mid           | 132322  | 1745            | 16QAM      | 17.968       | 19.454        | PASS    |
| B66      | 20      | High          | 132572  | 1770            | QPSK       | 17.911       | 19.393        | PASS    |



|     |    |      |        |      |       |        |        |      |
|-----|----|------|--------|------|-------|--------|--------|------|
| B66 | 20 | High | 132572 | 1770 | 16QAM | 17.942 | 19.559 | PASS |
|-----|----|------|--------|------|-------|--------|--------|------|

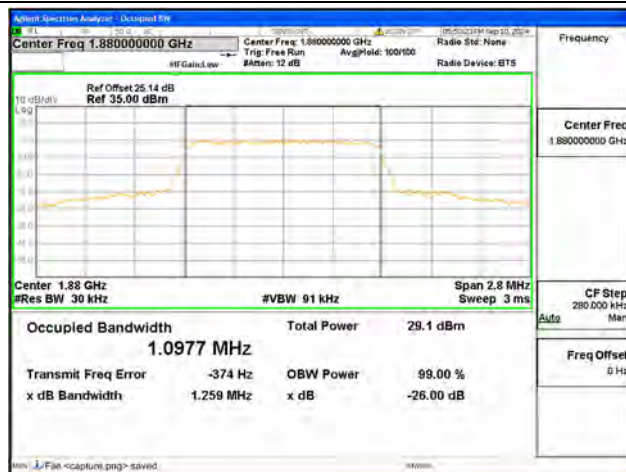
| LTE Band | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | 99% BW (MHz) | 26dB BW (MHz) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|--------------|---------------|---------|
| B71      | 5       | Low           | 133147  | 665.5           | QPSK       | 4.4645       | 4.8789        | PASS    |
| B71      | 5       | Low           | 133147  | 665.5           | 16QAM      | 4.4536       | 4.7586        | PASS    |
| B71      | 5       | Mid           | 133297  | 680.5           | QPSK       | 4.4745       | 4.8871        | PASS    |
| B71      | 5       | Mid           | 133297  | 680.5           | 16QAM      | 4.4700       | 4.8922        | PASS    |
| B71      | 5       | High          | 133447  | 695.5           | QPSK       | 4.4708       | 4.8836        | PASS    |
| B71      | 5       | High          | 133447  | 695.5           | 16QAM      | 4.4778       | 4.8940        | PASS    |
| B71      | 10      | Low           | 133172  | 668             | QPSK       | 8.9559       | 9.8047        | PASS    |
| B71      | 10      | Low           | 133172  | 668             | 16QAM      | 8.9398       | 9.6758        | PASS    |
| B71      | 10      | Mid           | 133297  | 680.5           | QPSK       | 8.9553       | 9.7642        | PASS    |
| B71      | 10      | Mid           | 133297  | 680.5           | 16QAM      | 8.9474       | 9.6888        | PASS    |
| B71      | 10      | High          | 133422  | 693             | QPSK       | 8.9764       | 9.7804        | PASS    |
| B71      | 10      | High          | 133422  | 693             | 16QAM      | 8.9410       | 9.7386        | PASS    |
| B71      | 15      | Low           | 133197  | 670.5           | QPSK       | 13.433       | 14.597        | PASS    |
| B71      | 15      | Low           | 133197  | 670.5           | 16QAM      | 13.414       | 14.637        | PASS    |
| B71      | 15      | Mid           | 133297  | 680.5           | QPSK       | 13.464       | 14.661        | PASS    |
| B71      | 15      | Mid           | 133297  | 680.5           | 16QAM      | 13.434       | 14.678        | PASS    |
| B71      | 15      | High          | 133397  | 690.5           | QPSK       | 13.445       | 14.541        | PASS    |
| B71      | 15      | High          | 133397  | 690.5           | 16QAM      | 13.396       | 14.704        | PASS    |
| B71      | 20      | Low           | 133222  | 673             | QPSK       | 17.876       | 19.376        | PASS    |
| B71      | 20      | Low           | 133222  | 673             | 16QAM      | 17.908       | 19.419        | PASS    |
| B71      | 20      | Mid           | 133322  | 683             | QPSK       | 17.890       | 19.517        | PASS    |
| B71      | 20      | Mid           | 133322  | 683             | 16QAM      | 17.919       | 19.326        | PASS    |
| B71      | 20      | High          | 133372  | 688             | QPSK       | 17.892       | 19.407        | PASS    |
| B71      | 20      | High          | 133372  | 688             | 16QAM      | 17.885       | 19.381        | PASS    |



B2 / 1.4MHz / QPSK/ Low CH



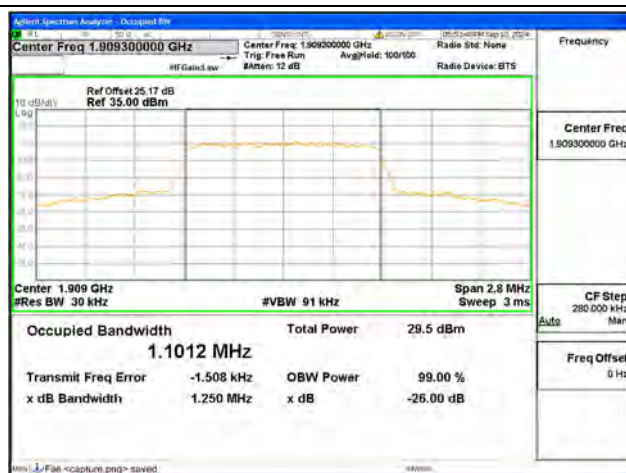
B2 / 1.4MHz / 16QAM/ Low CH



B2 / 1.4MHz / QPSK/ Mid CH



B2 / 1.4MHz / 16QAM/ Mid CH



B2 / 1.4MHz / QPSK/ High CH



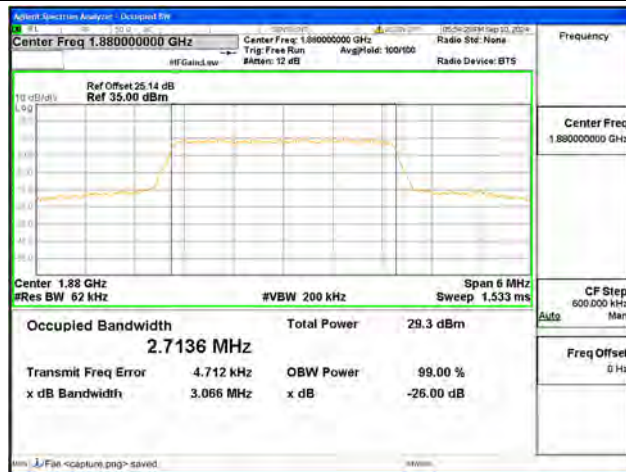
B2 / 1.4MHz / 16QAM/ High CH



B2 / 3MHz / QPSK/ Low CH



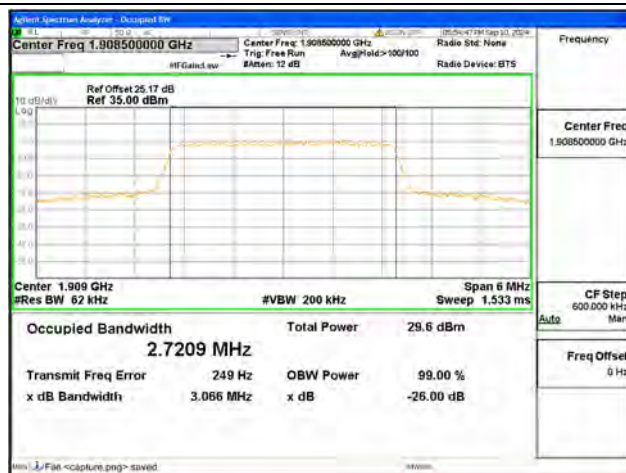
B2 / 3MHz / 16QAM/ Low CH



B2 / 3MHz / QPSK/ Mid CH



B2 / 3MHz / 16QAM/ Mid CH



B2 / 3MHz / QPSK/ High CH



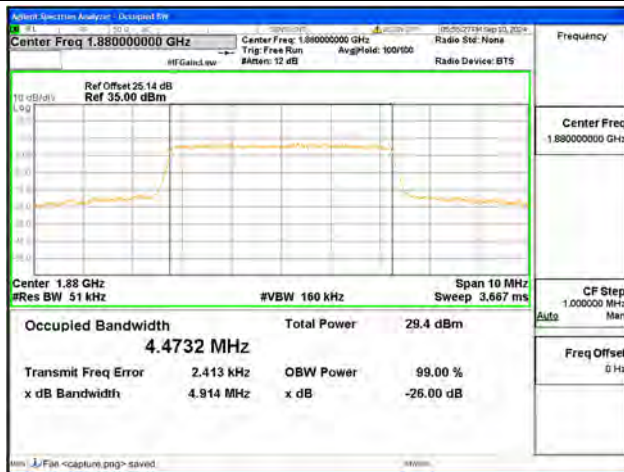
B2 / 3MHz / 16QAM/ High CH



B2 / 5MHz / QPSK/ Low CH



B2 / 5MHz / 16QAM/ Low CH



B2 / 5MHz / QPSK/ Mid CH



B2 / 5MHz / 16QAM/ Mid CH



B2 / 5MHz / QPSK/ High CH



B2 / 5MHz / 16QAM/ High CH



B2 / 10MHz / QPSK/ Low CH



B2 / 10MHz / 16QAM/ Low CH



B2 / 10MHz / QPSK/ Mid CH



B2 / 10MHz / 16QAM/ Mid CH



B2 / 10MHz / QPSK/ High CH



B2 / 10MHz / 16QAM/ High CH



B2 / 15MHz / QPSK/ Low CH



B2 / 15MHz / 16QAM/ Low CH



B2 / 15MHz / QPSK/ Mid CH



B2 / 15MHz / 16QAM/ Mid CH



B2 / 15MHz / QPSK/ High CH



B2 / 15MHz / 16QAM/ High CH



B2 / 20MHz / QPSK/ Low CH



B2 / 20MHz / 16QAM/ Low CH



B2 / 20MHz / QPSK/ Mid CH



B2 / 20MHz / 16QAM/ Mid CH



B2 / 20MHz / QPSK/ High CH



B2 / 20MHz / 16QAM/ High CH



B4 / 1.4MHz / QPSK/ Low CH



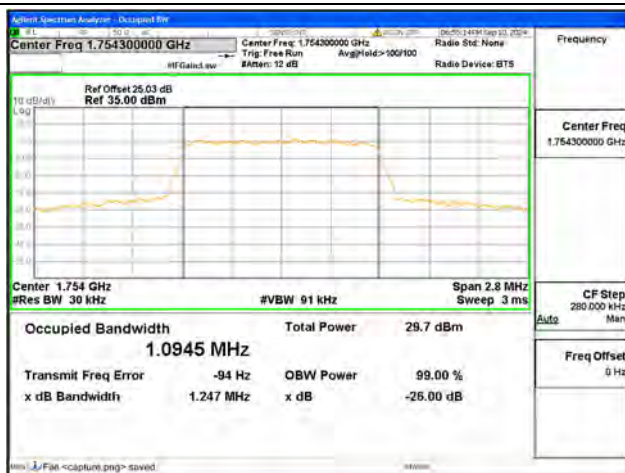
B4 / 1.4MHz / 16QAM/ Low CH



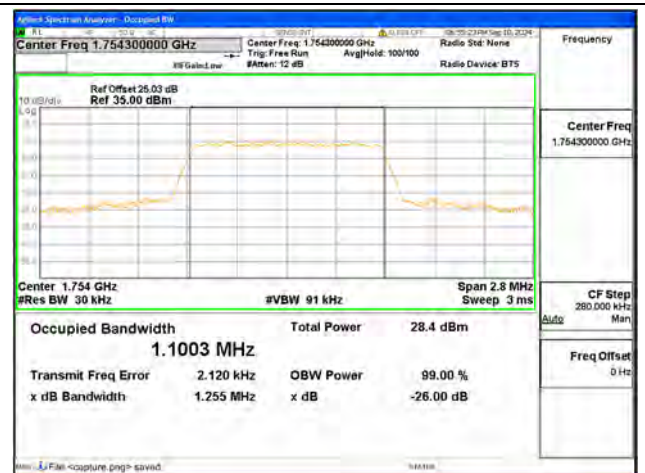
B4 / 1.4MHz / QPSK/ Mid CH



B4 / 1.4MHz / 16QAM/ Mid CH



B4 / 1.4MHz / QPSK/ High CH



B4 / 1.4MHz / 16QAM/ High CH



B4 / 3MHz / QPSK/ Low CH



B4 / 3MHz / 16QAM/ Low CH



B4 / 3MHz / QPSK/ Mid CH



B4 / 3MHz / 16QAM/ Mid CH



B4 / 3MHz / QPSK/ High CH



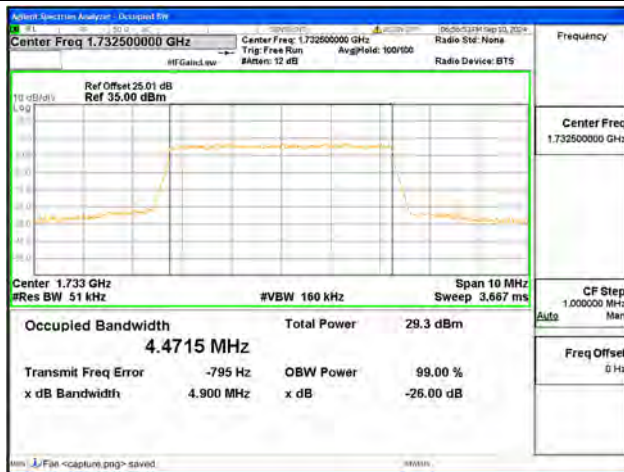
B4 / 3MHz / 16QAM/ High CH



B4 / 5MHz / QPSK/ Low CH



B4 / 5MHz / 16QAM/ Low CH



B4 / 5MHz / QPSK/ Mid CH



B4 / 5MHz / 16QAM/ Mid CH



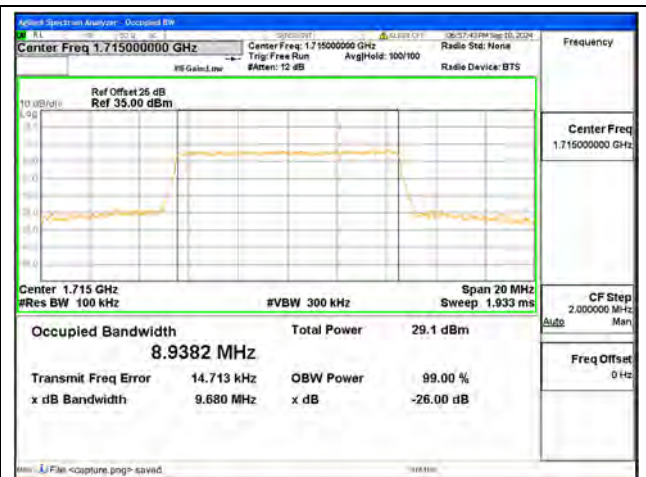
B4 / 5MHz / QPSK/ High CH



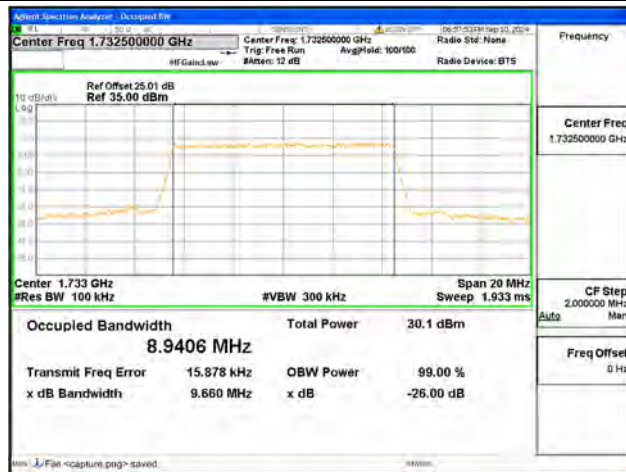
B4 / 5MHz / 16QAM/ High CH



B4 / 10MHz / QPSK/ Low CH



B4 / 10MHz / 16QAM/ Low CH



B4 / 10MHz / QPSK/ Mid CH



B4 / 10MHz / 16QAM/ Mid CH



B4 / 10MHz / QPSK/ High CH



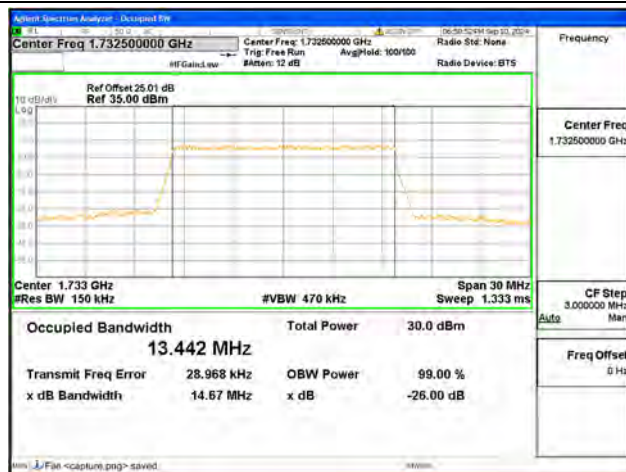
B4 / 10MHz / 16QAM/ High CH



B4 / 15MHz / QPSK/ Low CH



B4 / 15MHz / 16QAM/ Low CH



B4 / 15MHz / QPSK/ Mid CH



B4 / 15MHz / 16QAM/ Mid CH



B4 / 15MHz / QPSK/ High CH



B4 / 15MHz / 16QAM/ High CH



B4 / 20MHz / QPSK/ Low CH



B4 / 20MHz / 16QAM/ Low CH



B4 / 20MHz / QPSK/ Mid CH



B4 / 20MHz / 16QAM/ Mid CH



B4 / 20MHz / QPSK/ High CH



B4 / 20MHz / 16QAM/ High CH



B5 / 1.4MHz / QPSK/ Low CH



B5 / 1.4MHz / 16QAM/ Low CH



B5 / 1.4MHz / QPSK/ Mid CH



B5 / 1.4MHz / 16QAM/ Mid CH



B5 / 1.4MHz / QPSK/ High CH



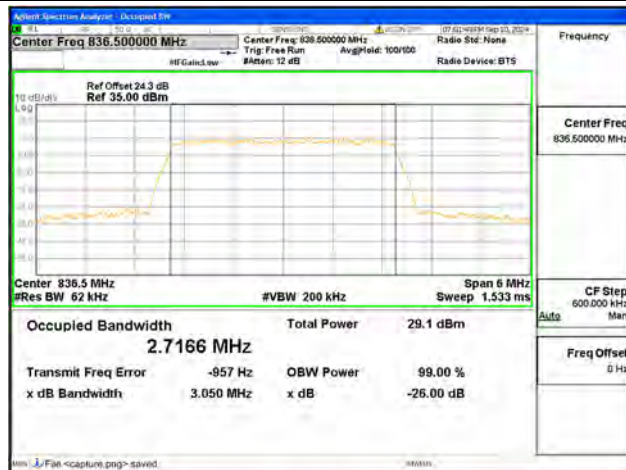
B5 / 1.4MHz / 16QAM/ High CH



B5 / 3MHz / QPSK/ Low CH



B5 / 3MHz / 16QAM/ Low CH



B5 / 3MHz / QPSK/ Mid CH



B5 / 3MHz / 16QAM/ Mid CH



B5 / 3MHz / QPSK/ High CH



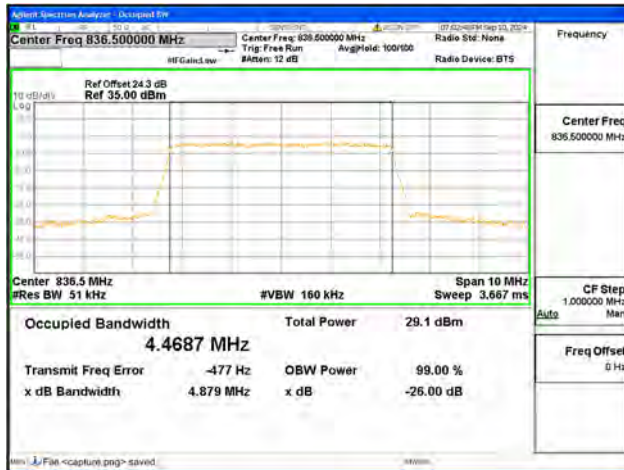
B5 / 3MHz / 16QAM/ High CH



B5 / 5MHz / QPSK/ Low CH



B5 / 5MHz / 16QAM/ Low CH



B5 / 5MHz / QPSK/ Mid CH



B5 / 5MHz / 16QAM/ Mid CH



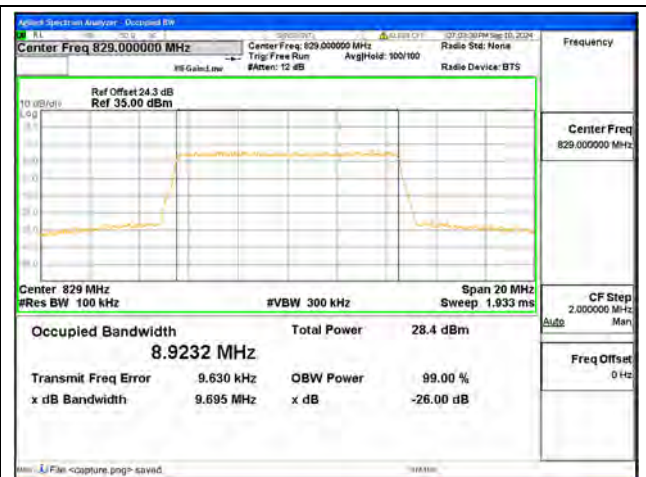
B5 / 5MHz / QPSK/ High CH



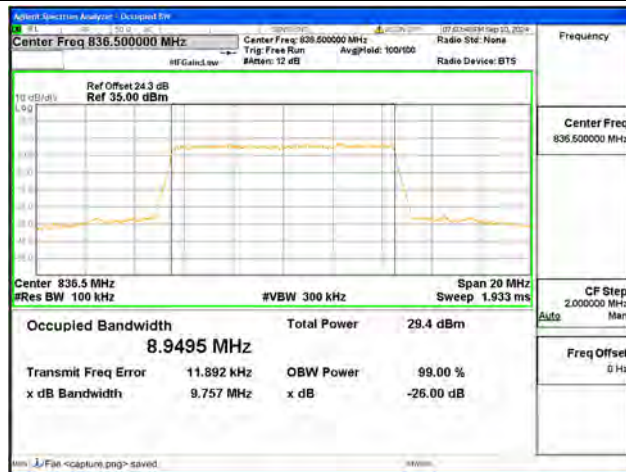
B5 / 5MHz / 16QAM/ High CH



B5 / 10MHz / QPSK/ Low CH



B5 / 10MHz / 16QAM/ Low CH



B5 / 10MHz / QPSK/ Mid CH



B5 / 10MHz / 16QAM/ Mid CH



B5 / 10MHz / QPSK/ High CH



B5 / 10MHz / 16QAM/ High CH



B12 / 1.4MHz / QPSK/ Low CH



B12 / 1.4MHz / 16QAM/ Low CH



B12 / 1.4MHz / QPSK/ Mid CH



B12 / 1.4MHz / 16QAM/ Mid CH



B12 / 1.4MHz / QPSK/ High CH



B12 / 1.4MHz / 16QAM/ High CH



B12 / 3MHz / QPSK/ Low CH



B12 / 3MHz / 16QAM/ Low CH



B12 / 3MHz / QPSK/ Mid CH



B12 / 3MHz / 16QAM/ Mid CH



B12 / 3MHz / QPSK/ High CH



B12 / 3MHz / 16QAM/ High CH



B12 / 5MHz / QPSK/ Low CH



B12 / 5MHz / 16QAM/ Low CH



B12 / 5MHz / QPSK/ Mid CH



B12 / 5MHz / 16QAM/ Mid CH



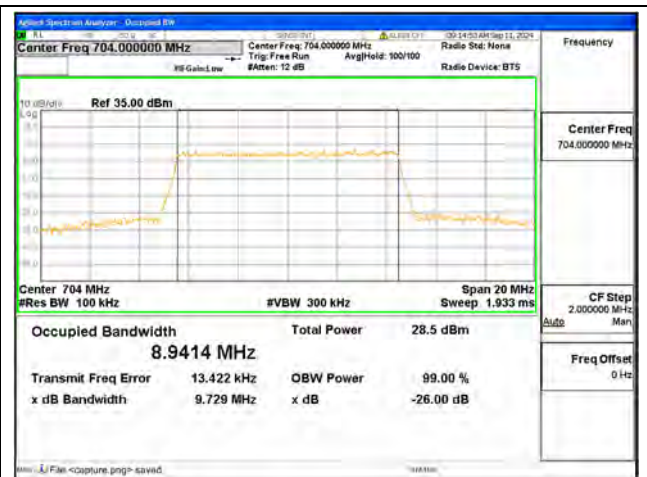
B12 / 5MHz / QPSK/ High CH



B12 / 5MHz / 16QAM/ High CH



B12 / 10MHz / QPSK/ Low CH



B12 / 10MHz / 16QAM/ Low CH



B12 / 10MHz / QPSK/ Mid CH



B12 / 10MHz / 16QAM/ Mid CH



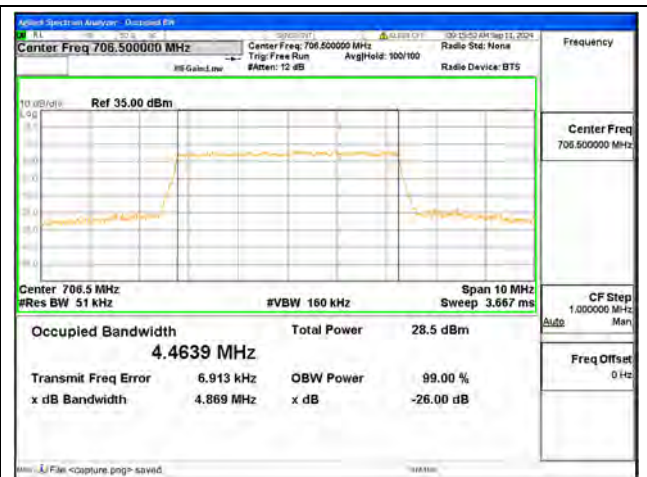
B12 / 10MHz / QPSK/ High CH



B12 / 10MHz / 16QAM/ High CH



B17 / 5MHz / QPSK/ Low CH



B17 / 5MHz / 16QAM/ Low CH



B17 / 5MHz / QPSK/ Mid CH



B17 / 5MHz / 16QAM/ Mid CH



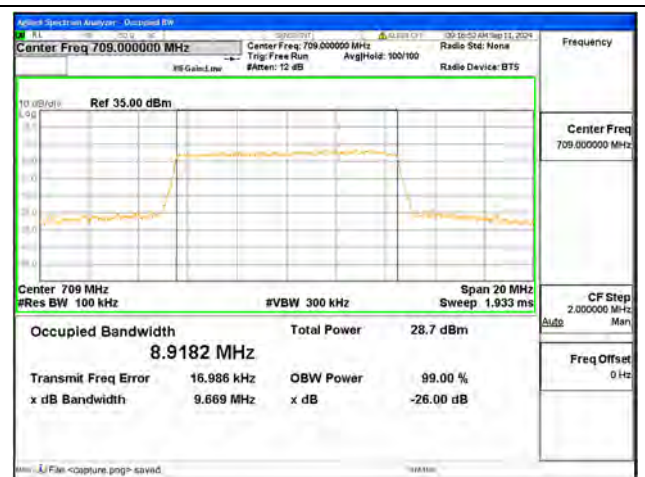
B17 / 5MHz / QPSK/ High CH



B17 / 5MHz / 16QAM/ High CH



B17 / 10MHz / QPSK/ Low CH



B17 / 10MHz / 16QAM/ Low CH



B17 / 10MHz / QPSK/ Mid CH



B17 / 10MHz / 16QAM/ Mid CH



B17 / 10MHz / QPSK/ High CH



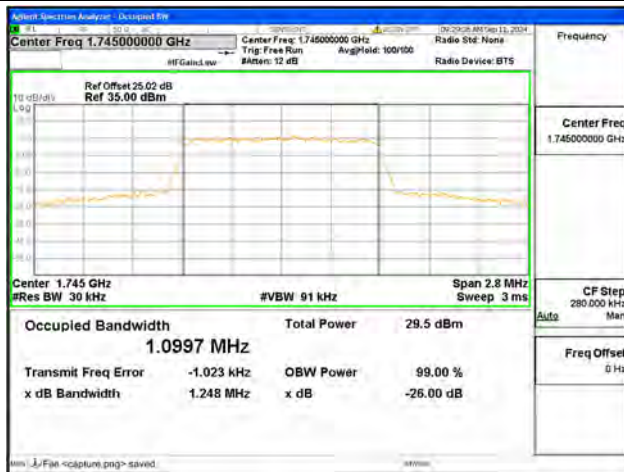
B17 / 10MHz / 16QAM/ High CH



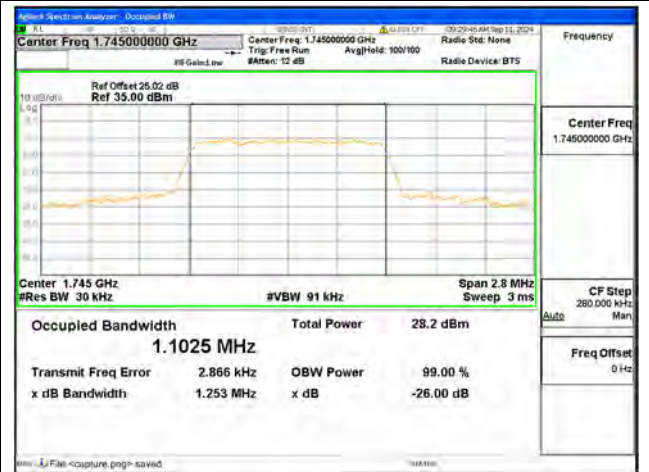
B66 / 1.4MHz / QPSK/ Low CH



B66 / 1.4MHz / 16QAM/ Low CH



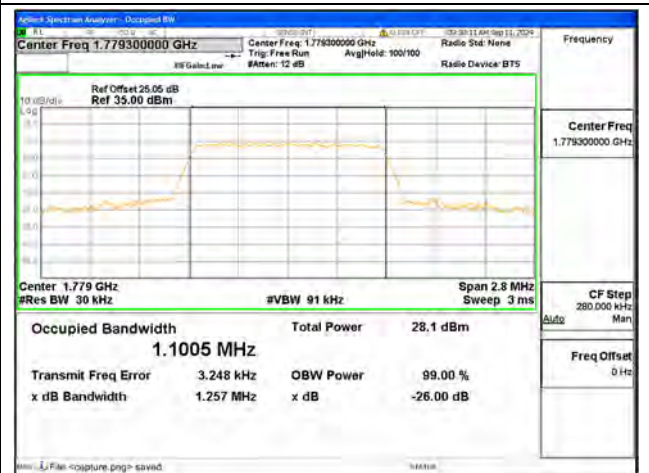
B66 / 1.4MHz / QPSK/ Mid CH



B66 / 1.4MHz / 16QAM/ Mid CH



B66 / 1.4MHz / QPSK/ High CH



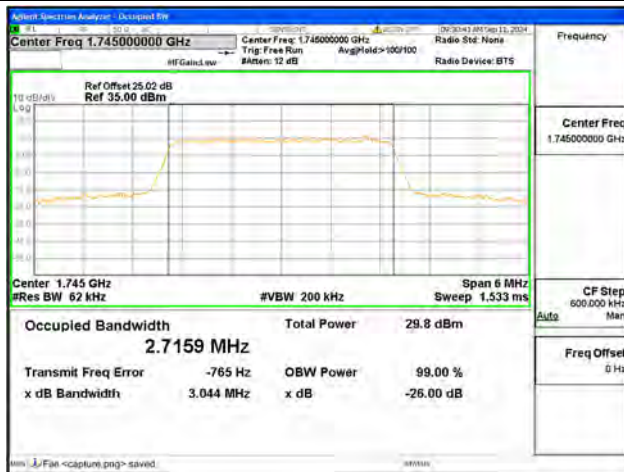
B66 / 1.4MHz / 16QAM/ High CH



B66 / 3MHz / QPSK/ Low CH



B66 / 3MHz / 16QAM/ Low CH



B66 / 3MHz / QPSK/ Mid CH



B66 / 3MHz / 16QAM/ Mid CH



B66 / 3MHz / QPSK/ High CH



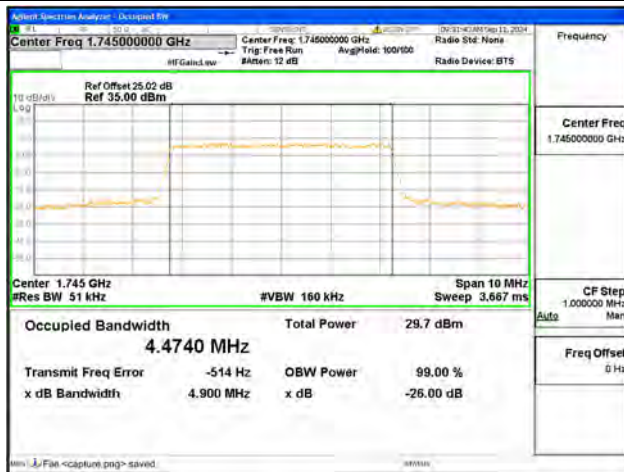
B66 / 3MHz / 16QAM/ High CH



B66 / 5MHz / QPSK/ Low CH



B66 / 5MHz / 16QAM/ Low CH



B66 / 5MHz / QPSK/ Mid CH



B66 / 5MHz / 16QAM/ Mid CH



B66 / 5MHz / QPSK/ High CH



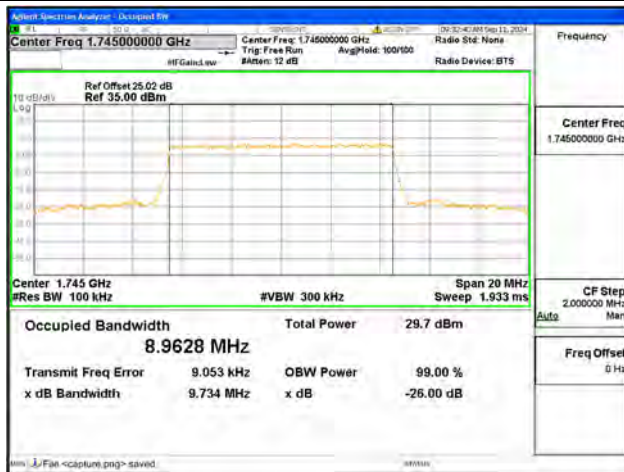
B66 / 5MHz / 16QAM/ High CH



B66 / 10MHz / QPSK/ Low CH



B66 / 10MHz / 16QAM/ Low CH



B66 / 10MHz / QPSK/ Mid CH



B66 / 10MHz / 16QAM/ Mid CH



B66 / 10MHz / QPSK/ High CH



B66 / 10MHz / 16QAM/ High CH



B66 / 15MHz / QPSK/ Low CH



B66 / 15MHz / 16QAM/ Low CH



B66 / 15MHz / QPSK/ Mid CH



B66 / 15MHz / 16QAM/ Mid CH



B66 / 15MHz / QPSK/ High CH



B66 / 15MHz / 16QAM/ High CH



B66 / 20MHz / QPSK/ Low CH



B66 / 20MHz / 16QAM/ Low CH



B66 / 20MHz / QPSK/ Mid CH



B66 / 20MHz / 16QAM/ Mid CH



B66 / 20MHz / QPSK/ High CH



B66 / 20MHz / 16QAM/ High CH



B71 / 5MHz / QPSK/ Low CH



B71 / 5MHz / 16QAM/ Low CH



B71 / 5MHz / QPSK/ Mid CH



B71 / 5MHz / 16QAM/ Mid CH



B71 / 5MHz / QPSK/ High CH



B71 / 5MHz / 16QAM/ High CH



B71 / 10MHz / QPSK/ Low CH



B71 / 10MHz / 16QAM/ Low CH



B71 / 10MHz / QPSK/ Mid CH



B71 / 10MHz / 16QAM/ Mid CH



B71 / 10MHz / QPSK/ High CH



B71 / 10MHz / 16QAM/ High CH



B71 / 15MHz / QPSK/ Low CH



B71 / 15MHz / 16QAM/ Low CH



B71 / 15MHz / QPSK/ Mid CH



B71 / 15MHz / 16QAM/ Mid CH



B71 / 15MHz / QPSK/ High CH



B71 / 15MHz / 16QAM/ High CH



B71 / 20MHz / QPSK/ Low CH



B71 / 20MHz / 16QAM/ Low CH



B71 / 20MHz / QPSK/ Mid CH



B71 / 20MHz / 16QAM/ Mid CH



B71 / 20MHz / QPSK/ High CH



B71 / 20MHz / 16QAM/ High CH

## 2.3. Frequency Stability

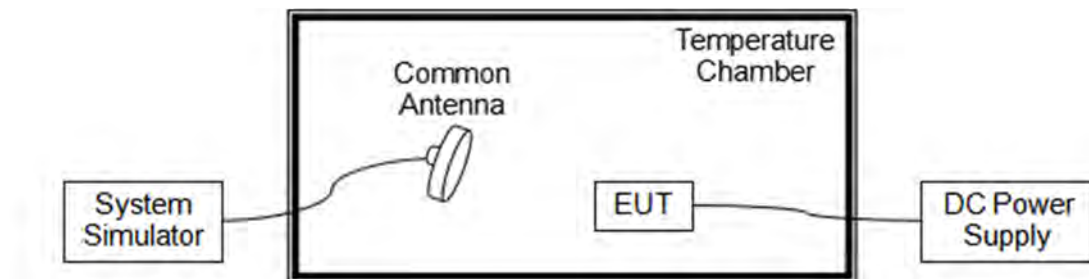
### 2.3.1. Requirement

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 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

| LTE Band 2, QPSK, Channel 18900, Frequency 1880.0MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                | 3.80        | +20(Ref) | 11             | 0.006           | PASS   |
| Normal                                                                                |             | -10      | 19             | <b>0.010</b>    |        |
| Normal                                                                                |             | 0        | 16             | 0.009           |        |
| Normal                                                                                |             | +10      | -7             | -0.004          |        |
| Normal                                                                                |             | +20      | 16             | 0.009           |        |
| Normal                                                                                |             | +30      | 6              | 0.003           |        |
| Normal                                                                                |             | +40      | 17             | 0.009           |        |
| Normal                                                                                |             | +50      | -7             | -0.004          |        |
| Normal                                                                                |             | +55      | 13             | 0.007           |        |
| High                                                                                  | 4.35        | +20      | 17             | 0.009           |        |
| BATT.ENDPOINT                                                                         | 3.50        | +20      | 16             | 0.009           |        |

| LTE Band 4, QPSK, Channel 20175, Frequency 1732.5MHz<br>Limit =Within Authorized Band |             |          |                |                 |        |
|---------------------------------------------------------------------------------------|-------------|----------|----------------|-----------------|--------|
| Voltage (%)                                                                           | Power (VDC) | Temp(°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                | 3.80        | +20(Ref) | 10             | 0.006           | PASS   |
| Normal                                                                                |             | -10      | 18             | <b>0.010</b>    |        |
| Normal                                                                                |             | 0        | -23            | -0.013          |        |
| Normal                                                                                |             | +10      | -14            | -0.008          |        |
| Normal                                                                                |             | +20      | 0              | 0.000           |        |
| Normal                                                                                |             | +30      | 17             | 0.010           |        |
| Normal                                                                                |             | +40      | -3             | -0.002          |        |
| Normal                                                                                |             | +50      | 18             | <b>0.010</b>    |        |
| Normal                                                                                |             | +55      | 16             | 0.009           |        |
| High                                                                                  | 4.35        | +20      | 13             | 0.008           |        |
| BATT.ENDPOINT                                                                         | 3.50        | +20      | 16             | 0.009           |        |



| 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) | -2             | -0.002          | PASS   |
| Normal                                                               |             | -10      | 17             | 0.020           |        |
| Normal                                                               |             | 0        | 15             | 0.018           |        |
| Normal                                                               |             | +10      | 18             | 0.022           |        |
| Normal                                                               |             | +20      | 20             | <b>0.024</b>    |        |
| Normal                                                               |             | +30      | 17             | 0.020           |        |
| Normal                                                               |             | +40      | 16             | 0.019           |        |
| Normal                                                               |             | +50      | 13             | 0.016           |        |
| Normal                                                               |             | +55      | -18            | -0.022          |        |
| High                                                                 | 4.35        | +20      | -21            | -0.025          |        |
| BATT.ENDPOINT                                                        | 3.50        | +20      | 3              | 0.004           |        |

| 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) | 17             | 0.024           | PASS   |
| Normal                                                                                |             | -10      | -4             | -0.006          |        |
| Normal                                                                                |             | 0        | 20             | <b>0.028</b>    |        |
| Normal                                                                                |             | +10      | -2             | -0.003          |        |
| Normal                                                                                |             | +20      | 16             | 0.023           |        |
| Normal                                                                                |             | +30      | -15            | -0.021          |        |
| Normal                                                                                |             | +40      | 12             | 0.017           |        |
| Normal                                                                                |             | +50      | 17             | 0.024           |        |
| Normal                                                                                |             | +55      | 17             | 0.024           |        |
| High                                                                                  | 4.35        | +20      | 15             | 0.021           |        |
| BATT.ENDPOINT                                                                         | 3.50        | +20      | 14             | 0.020           |        |



| 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) | 17             | 0.024           | PASS   |
| Normal                                                                              |             | -10      | 19             | <b>0.027</b>    |        |
| Normal                                                                              |             | 0        | 18             | 0.025           |        |
| Normal                                                                              |             | +10      | -22            | -0.031          |        |
| Normal                                                                              |             | +20      | -6             | -0.008          |        |
| Normal                                                                              |             | +30      | 19             | <b>0.027</b>    |        |
| Normal                                                                              |             | +40      | 15             | 0.021           |        |
| Normal                                                                              |             | +50      | -21            | -0.030          |        |
| Normal                                                                              |             | +55      | -5             | -0.007          |        |
| High                                                                                | 4.35        | +20      | 13             | 0.018           |        |
| BATT.ENDPOINT                                                                       | 3.50        | +20      | 18             | 0.025           |        |

| 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)  | 19             | 0.011           | PASS   |
| Normal                                                                                  |             | -10       | -1             | -0.001          |        |
| Normal                                                                                  |             | 0         | 17             | 0.010           |        |
| Normal                                                                                  |             | +10       | 18             | 0.010           |        |
| Normal                                                                                  |             | +20       | -17            | -0.010          |        |
| Normal                                                                                  |             | +30       | 6              | 0.003           |        |
| Normal                                                                                  |             | +40       | 17             | 0.010           |        |
| Normal                                                                                  |             | +50       | -3             | -0.002          |        |
| Normal                                                                                  |             | +55       | 17             | 0.010           |        |
| High                                                                                    | 4.35        | +20       | 20             | <b>0.011</b>    |        |
| BATT.ENDPOINT                                                                           | 3.50        | +20       | 19             | 0.011           |        |



REPORT No.: SZ24080312W05

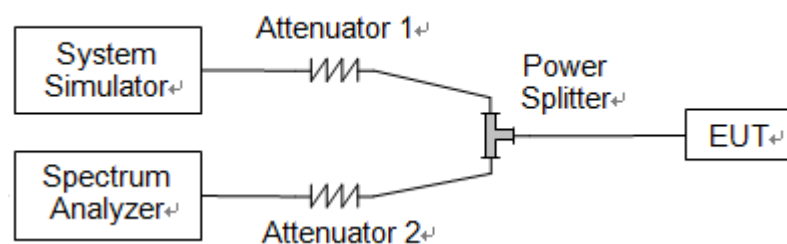
| LTE Band 71, 64QAM, Channel 133322, Frequency 683.0MHz<br>Limit =Within Authorized Band |             |           |                |                 |        |
|-----------------------------------------------------------------------------------------|-------------|-----------|----------------|-----------------|--------|
| Voltage (%)                                                                             | Power (VDC) | Temp (°C) | Fre. Dev. (Hz) | Deviation (ppm) | Result |
| Normal                                                                                  | 3.80        | +20(Ref)  | -19            | -0.028          | PASS   |
| Normal                                                                                  |             | -10       | 1              | 0.001           |        |
| Normal                                                                                  |             | 0         | 16             | 0.023           |        |
| Normal                                                                                  |             | +10       | -13            | -0.019          |        |
| Normal                                                                                  |             | +20       | -5             | -0.007          |        |
| Normal                                                                                  |             | +30       | 17             | 0.025           |        |
| Normal                                                                                  |             | +40       | -3             | -0.004          |        |
| Normal                                                                                  |             | +50       | 15             | 0.022           |        |
| Normal                                                                                  |             | +55       | -20            | -0.029          |        |
| High                                                                                    | 4.35        | +20       | 14             | 0.020           |        |
| BATT.ENDPOINT                                                                           | 3.50        | +20       | 18             | <b>0.026</b>    |        |

## 2.4. Peak to Average Radio

### 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 | BW(MHz) | Channel Level | Channel | Frequency (MHz) | Modulation | Peak to Average Radio(dB) | Verdict |
|----------|---------|---------------|---------|-----------------|------------|---------------------------|---------|
| B2       | 1.4     | Low           | 18607   | 1850.7          | QPSK       | 5.59                      | PASS    |
| B2       | 1.4     | Low           | 18607   | 1850.7          | 16QAM      | 4.96                      | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | QPSK       | 5.15                      | PASS    |
| B2       | 1.4     | Mid           | 18900   | 1880            | 16QAM      | 4.02                      | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | QPSK       | 5.25                      | PASS    |
| B2       | 1.4     | High          | 19193   | 1909.3          | 16QAM      | 4.22                      | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | QPSK       | 5.80                      | PASS    |
| B2       | 3       | Low           | 18615   | 1851.5          | 16QAM      | 4.95                      | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | QPSK       | 5.29                      | PASS    |
| B2       | 3       | Mid           | 18900   | 1880            | 16QAM      | 4.04                      | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | QPSK       | 5.48                      | PASS    |
| B2       | 3       | High          | 19185   | 1908.5          | 16QAM      | 4.32                      | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | QPSK       | 5.79                      | PASS    |
| B2       | 5       | Low           | 18625   | 1852.5          | 16QAM      | 5.12                      | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | QPSK       | 5.52                      | PASS    |
| B2       | 5       | Mid           | 18900   | 1880            | 16QAM      | 4.44                      | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | QPSK       | 5.66                      | PASS    |
| B2       | 5       | High          | 19175   | 1907.5          | 16QAM      | 4.91                      | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | QPSK       | 5.87                      | PASS    |
| B2       | 10      | Low           | 18650   | 1855            | 16QAM      | 5.35                      | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | QPSK       | 5.49                      | PASS    |
| B2       | 10      | Mid           | 18900   | 1880            | 16QAM      | 4.79                      | PASS    |
| B2       | 10      | High          | 19150   | 1905            | QPSK       | 5.74                      | PASS    |
| B2       | 10      | High          | 19150   | 1905            | 16QAM      | 5.25                      | PASS    |
| B2       | 15      | Low           | 18675   | 1857.5          | QPSK       | 5.75                      | PASS    |
| B2       | 15      | Low           | 18675   | 1857.5          | 16QAM      | 5.10                      | PASS    |
| B2       | 15      | Mid           | 18900   | 1880            | QPSK       | 5.28                      | PASS    |
| B2       | 15      | Mid           | 18900   | 1880            | 16QAM      | 4.32                      | PASS    |
| B2       | 15      | High          | 19125   | 1902.5          | QPSK       | 5.59                      | PASS    |
| B2       | 15      | High          | 19125   | 1902.5          | 16QAM      | 4.76                      | PASS    |
| B2       | 20      | Low           | 18700   | 1860            | QPSK       | 5.73                      | PASS    |
| B2       | 20      | Low           | 18700   | 1860            | 16QAM      | 5.36                      | PASS    |
| B2       | 20      | Mid           | 18900   | 1880            | QPSK       | 5.51                      | PASS    |
| B2       | 20      | Mid           | 18900   | 1880            | 16QAM      | 4.77                      | PASS    |
| B2       | 20      | High          | 19100   | 1900            | QPSK       | 5.61                      | PASS    |