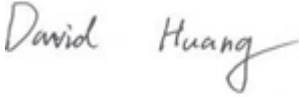


# RF TEST REPORT



Report No.: 17071380-FCC-R5

Supersede Report No.: N/A

|                                                                                                                                      |                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Applicant                                                                                                                            | BLU Products, Inc                                                                    |                                                                                       |
| Product Name                                                                                                                         | Mobile Phone                                                                         |                                                                                       |
| Model No.                                                                                                                            | VIVO ONE                                                                             |                                                                                       |
| Serial No.                                                                                                                           | N/A                                                                                  |                                                                                       |
| Test Standard                                                                                                                        | FCC Part 22(H):2016, FCC Part 24(E):2016, FCC Part 27: 2016;<br>ANSI/TIA-603-D: 2010 |                                                                                       |
| Test Date                                                                                                                            | December 12 to January 11, 2018                                                      |                                                                                       |
| Issue Date                                                                                                                           | January 12, 2018                                                                     |                                                                                       |
| Test Result                                                                                                                          | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail               |                                                                                       |
| Equipment complied with the specification                                                                                            | <input checked="" type="checkbox"/>                                                  |                                                                                       |
| Equipment did not comply with the specification                                                                                      | <input type="checkbox"/>                                                             |                                                                                       |
|                                                   |   |  |
| Aaron Liang<br>Test Engineer                                                                                                         | David Huang<br>Checked By                                                            |                                                                                       |
| This test report may be reproduced in full only<br>Test result presented in this test report is applicable to the tested sample only |                                                                                      |                                                                                       |

Issued by:

**SIEMIC (SHENZHEN-CHINA) LABORATORIES**

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

|             |                 |
|-------------|-----------------|
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## Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

| Country/Region | Scope                              |
|----------------|------------------------------------|
| USA            | EMC, RF/Wireless, SAR, Telecom     |
| Canada         | EMC, RF/Wireless, SAR, Telecom     |
| Taiwan         | EMC, RF, Telecom, SAR, Safety      |
| Hong Kong      | RF/Wireless, SAR, Telecom          |
| Australia      | EMC, RF, Telecom, SAR, Safety      |
| Korea          | EMI, EMS, RF, SAR, Telecom, Safety |
| Japan          | EMI, RF/Wireless, SAR, Telecom     |
| Singapore      | EMC, RF, SAR, Telecom              |
| Europe         | EMC, RF, SAR, Telecom, Safety      |

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## 1. Report Revision History

| Report No.      | Report Version | Description | Issue Date       |
|-----------------|----------------|-------------|------------------|
| 17071380-FCC-R5 | NONE           | Original    | January 12, 2018 |
|                 |                |             |                  |
|                 |                |             |                  |
|                 |                |             |                  |

## 2. Customer information

|                  |                                             |
|------------------|---------------------------------------------|
| Applicant Name   | BLU Products,Inc                            |
| Applicant Add    | 10814 NW 33rd St # 100 Doral, FL 33172, USA |
| Manufacturer     | BLU Products,Inc                            |
| Manufacturer Add | 10814 NW 33rd St # 100 Doral, FL 33172, USA |

## 3. Test site information

Test Lab A:

|                      |                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Shenzhen-China) LABORATORIES                                                                                                         |
| Lab Address          | Zone A, Floor 1, Building 2 Wan Ye Long Technology Park<br>South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China<br>518108 |
| FCC Test Site No.    | 535293                                                                                                                                       |
| IC Test Site No.     | 4842E-1                                                                                                                                      |
| Test Software        | Radiated Emission Program-To Shenzhen v2.0                                                                                                   |

Test Lab B:

|                      |                                                                                       |
|----------------------|---------------------------------------------------------------------------------------|
| Lab performing tests | SIEMIC (Nanjing-China) Laboratories                                                   |
| Lab Address          | 2-1 Longcang Avenue Yuhua Economic and<br>Technology Development Park, Nanjing, China |
| FCC Test Site No.    | 694825                                                                                |
| IC Test Site No.     | 4842B-1                                                                               |
| Test Software        | EZ_EMG(ver.lcp-03A1)                                                                  |

Note: We just perform Radiated Spurious Emission above 18GHz in the test Lab. B.

## 4. Equipment under Test (EUT) Information

|                      |                                                                                                                                                                                                                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description of EUT:  | Mobile Phone                                                                                                                                                                                                                                                                                                            |
| Main Model:          | VIVO ONE                                                                                                                                                                                                                                                                                                                |
| Serial Model:        | N/A                                                                                                                                                                                                                                                                                                                     |
| Date EUT received:   | December 11, 2017                                                                                                                                                                                                                                                                                                       |
| Test Date(s):        | December 12 to January 11, 2018                                                                                                                                                                                                                                                                                         |
| Equipment Category : | PCE                                                                                                                                                                                                                                                                                                                     |
| Antenna Gain:        | GSM850: -2.53dBi<br>PCS1900: -1.31dBi<br>UMTS-FDD Band V: -2dBi<br>UMTS-FDD Band IV: -0.18dBi<br>UMTS-FDD Band II: -1.74dBi<br>LTE Band II: -1.31dBi<br>LTE Band IV: -2.64dBi<br>LTE Band VII: -0.27dBi<br>LTE Band XII: -2.53dBi<br>LTE Band XVII: -3.19dBi<br>Bluetooth/BLE: 0.46dBi<br>WIFI: 0.46dBi<br>GPS: 0.05dBi |
| Antenna Type:        | PIFA Antenna                                                                                                                                                                                                                                                                                                            |
| Type of Modulation:  | GSM / GPRS: GMSK<br>EGPRS: GMSK, 8PSK<br>UMTS-FDD: QPSK<br>LTE Band: QPSK, 16QAM<br>802.11b/g/n: DSSS, OFDM<br>Bluetooth: GFSK, $\pi$ /4DQPSK, 8DPSK<br>BLE: GFSK<br>GPS: BPSK                                                                                                                                          |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | <p>GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz</p> <p>PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz</p> <p>UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz</p> <p>UMTS-FDD Band IV TX:1712.4 ~ 1752.6 MHz;</p> <p style="padding-left: 100px;">RX : 2112.4 ~ 2152.6 MHz</p> <p>UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;</p> <p style="padding-left: 100px;">RX: 1932.4 ~ 1987.6 MHz</p>                                                                                |
| RF Operating Frequency (ies):             | <p>LTE Band II TX: 1850.7 ~ 1909.3MHz; RX : 1930.7 ~ 1989.3 MHz</p> <p>LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7~ 2154.3 MHz</p> <p>LTE Band VII TX: 2502.5 ~ 2567.5 MHz; RX : 2622.5 ~ 2687.5 MHz</p> <p>LTE Band XII TX:699.7 ~ 715.3 MHz; RX : 729.7~ 745.3MHz</p> <p>LTE Band XVII TX: 706.5 ~ 713.5 MHz; RX : 736.5 ~ 743.5 MHz</p> <p>WIFI: 802.11b/g/n(20M): 2412-2462 MHz</p> <p>WIFI: 802.11n(40M): 2422-2452 MHz</p> <p>Bluetooth&amp; BLE: 2402-2480 MHz</p> <p>GPS: 1575.42 MHz</p> |
| Maximum Conducted<br>AV Power to Antenna: | <p>LTE Band II: 22.38 dBm</p> <p>LTE Band IV: 21.71 dBm</p> <p>LTE Band VII: 21.38 dBm</p> <p>LTE Band XII: 23.54 dBm</p> <p>LTE Band XVII: 22.49 dBm</p>                                                                                                                                                                                                                                                                                                                                              |
| ERP/EIRP:                                 | <p>LTE Band II: 20.97 dBm / EIRP</p> <p>LTE Band IV: 18.94 dBm / EIRP</p> <p>LTE Band VII: 21.11 dBm / EIRP</p> <p>LTE Band XII: 20.37 dBm / EIRP</p> <p>LTE Band XVII: 20.29 dBm / ERP</p>                                                                                                                                                                                                                                                                                                            |
| Port:                                     | <p>USB Port, Earphone Port</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Input Power:                              | <p>Adapter :</p> <p>Model: TPA-46050150UU</p> <p>Input: AC100-240V~50/60Hz,0.3A</p> <p>Output: DC 5V,1.5A</p> <p>Battery:</p> <p>Model: C735546300P</p> <p>Spec: 3.8V, 3000mAh,11.4Wh</p>                                                                                                                                                                                                                                                                                                              |
| Trade Name :                              | <p>BLU</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

GPRS/EGPRS Multi-slot class      8/10/11/12

FCC ID:                                      YHLBLUVIVOONE

## 5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

| FCC Rules                                                         | Description of Test                                                    | Result     |
|-------------------------------------------------------------------|------------------------------------------------------------------------|------------|
| § 1.1307; § 2.1093                                                | RF Exposure (SAR)                                                      | Compliance |
| §2.1046; § 22.913(a); § 24.232(c);<br>§ 27.50(c.10); § 27.50(d.4) | RF Output Power                                                        | Compliance |
| § 24.232 (d); § 27.50(d)                                          | Peak-Average Ratio                                                     | Compliance |
| § 2.1049; § 22.905; § 22.917;<br>§ 24.238; § 27.53(a.5)           | 99% & -26 dB Occupied Bandwidth                                        | Compliance |
| § 2.1051; § 22.917(a);<br>§ 24.238(a); § 27.53(h)                 | Spurious Emissions at Antenna Terminal                                 | Compliance |
| § 2.1053; § 22.917(a);<br>§ 24.238(a); § 27.53(h)                 | Field Strength of Spurious Radiation                                   | Compliance |
| § 22.917(a); § 24.238(a);                                         | Out of band emission, Band Edge                                        | Compliance |
| § 27.53(m)                                                        | Band Edge 27.53(m)                                                     | Compliance |
| § 2.1055; § 22.355; § 24.235;<br>§ 27.5(h); § 27.54               | Frequency stability vs. temperature<br>Frequency stability vs. voltage | Compliance |

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

### Measurement Uncertainty

| Emissions                                    |                                                                                                                                                 |               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Test Item                                    | Description                                                                                                                                     | Uncertainty   |
| Band Edge and Radiated<br>Spurious Emissions | Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m) | +5.6dB/-4.5dB |
| -                                            | -                                                                                                                                               | -             |

## 6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

### 6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

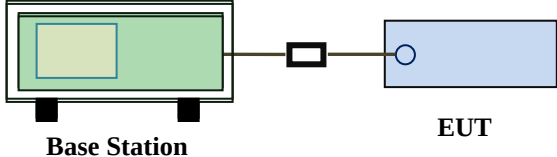
Please refer to RF Exposure Evaluation Report: 17071380-FCC-H.

## 6.2 RF Output Power

|                      |                  |
|----------------------|------------------|
| Temperature          | 23 °C            |
| Relative Humidity    | 55%              |
| Atmospheric Pressure | 1012mbar         |
| Test date :          | January 04, 2018 |
| Tested By :          | Aaron Liang      |

### Requirement(s):

| Spec        | Item | Requirement  | Applicable                          |
|-------------|------|--------------|-------------------------------------|
| §22.913 (a) | a)   | ERP:38.45dBm | <input checked="" type="checkbox"/> |
| §24.232 (c) | b)   | EIRP:33dBm   | <input checked="" type="checkbox"/> |
| §27.50 (c)  | c)   | EIRP: 30dBm  | <input checked="" type="checkbox"/> |

|            |                                                                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Setup |  <p style="text-align: center;">Base Station                      EUT</p> |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure | <p>For Conducted Power:</p> <ul style="list-style-type: none"> <li>- The transmitter output port was connected to base station.</li> <li>- Set EUT at maximum power through base station.</li> <li>- Select lowest, middle, and highest channels for each band and different test mode.</li> </ul> <p>For ERP/EIRP:</p> <ul style="list-style-type: none"> <li>- The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.</li> <li>- The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.</li> <li>- The frequency range up to tenth harmonic of the fundamental frequency was investigated.</li> </ul> |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <ul style="list-style-type: none"> <li>- Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.</li> <li>- Spurious emissions in dB = <math>10 \log (\text{TX power in Watts}/0.001)</math> – the absolute level</li> <li>- Spurious attenuation limit in dB = <math>43 + 10 \log_{10} (\text{power out in Watts})</math>.</li> </ul> |
| Remark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Test Data ☒ Yes ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

## Conducted Power

### LTE Band II:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 18700 | 1860.0      | QPSK  | 1                | 0            | 0   | 22.18               | 21.6±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.25               | 21.6±1                 |
|          |       |             |       | 1                | 99           | 0   | 22.14               | 21.6±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.05               | 21.6±1                 |
|          |       |             |       | 50               | 24           | 1   | 21                  | 21.6±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.97               | 21.6±1                 |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.02               | 21.6±1                 |
|          |       |             |       | 1                | 0            | 1   | 21.2                | 20.8±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.18               | 20.8±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.13               | 20.8±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.3                | 20.8±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.35               | 20.8±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.3                | 20.8±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.32               | 20.8±1                 |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 21.92               | 21.1±1                 |
|          |       |             |       | 1                | 49           | 0   | 20.35               | 21.1±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.84               | 21.1±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.24               | 21.1±1                 |
|          |       |             |       | 50               | 24           | 1   | 21.14               | 21.1±1                 |
|          |       |             |       | 50               | 49           | 1   | 21.32               | 21.1±1                 |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.29               | 21.1±1                 |
|          |       |             |       | 1                | 0            | 1   | 20.82               | 20.6±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.85               | 20.6±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.75               | 20.6±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.35               | 20.6±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.36               | 20.6±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.34               | 20.6±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.34               | 20.6±1                 |
|          | 19100 | 1900.0      | QPSK  | 1                | 0            | 0   | 21.78               | 21.5±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.8                | 21.5±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.87               | 21.5±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.28               | 21.5±1                 |
|          |       |             |       | 50               | 24           | 1   | 21.2                | 21.5±1                 |
|          |       |             |       | 50               | 49           | 1   | 21.26               | 21.5±1                 |
|          |       |             | 16QAM | 100              | 0            | 1   | 21.13               | 21.5±1                 |
|          |       |             |       | 1                | 0            | 1   | 21.16               | 20.8±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.09               | 20.8±1                 |
|          |       |             |       | 1                | 99           | 1   | 21.13               | 20.8±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.38               | 20.8±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.45               | 20.8±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.46               | 20.8±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.31               | 20.8±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 15MHz       | 18675 | 1857.5         | QPSK  | 1                   | 0               | 0   | 21.76                     | 21.4±1                       |
|             |       |                |       | 1                   | 37              | 0   | 21.82                     | 21.4±1                       |
|             |       |                |       | 1                   | 74              | 0   | 21.82                     | 21.4±1                       |
|             |       |                |       | 36                  | 0               | 1   | 21.03                     | 21.4±1                       |
|             |       |                |       | 36                  | 16              | 1   | 21.03                     | 21.4±1                       |
|             |       |                |       | 36                  | 35              | 1   | 20.97                     | 21.4±1                       |
|             |       |                |       | 75                  | 0               | 1   | 21.11                     | 21.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.5                      | 20.9±1                       |
|             |       |                |       | 1                   | 37              | 1   | 21.53                     | 20.9±1                       |
|             |       |                |       | 1                   | 74              | 1   | 21.55                     | 20.9±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.3                      | 20.9±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.35                     | 20.9±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.37                     | 20.9±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.32                     | 20.9±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.12                     | 21.2±1                       |
|             |       |                |       | 1                   | 37              | 0   | 20.35                     | 21.2±1                       |
|             |       |                |       | 1                   | 74              | 0   | 22.19                     | 21.2±1                       |
|             |       |                |       | 36                  | 0               | 1   | 21.18                     | 21.2±1                       |
|             |       |                |       | 36                  | 16              | 1   | 21.26                     | 21.2±1                       |
|             |       |                |       | 36                  | 35              | 1   | 21.2                      | 21.2±1                       |
|             |       |                |       | 75                  | 0               | 1   | 21.22                     | 21.2±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.92                     | 20.7±1                       |
|             |       |                |       | 1                   | 37              | 1   | 21.02                     | 20.7±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.85                     | 20.7±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.35                     | 20.7±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.35                     | 20.7±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.45                     | 20.7±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.34                     | 20.7±1                       |
|             | 19125 | 1902.5         | QPSK  | 1                   | 0               | 0   | 22.12                     | 21.8±1                       |
|             |       |                |       | 1                   | 37              | 0   | 22.02                     | 21.8±1                       |
|             |       |                |       | 1                   | 74              | 0   | 22.18                     | 21.8±1                       |
|             |       |                |       | 36                  | 0               | 1   | 21.44                     | 21.8±1                       |
|             |       |                |       | 36                  | 16              | 1   | 21.39                     | 21.8±1                       |
|             |       |                |       | 36                  | 35              | 1   | 21.53                     | 21.8±1                       |
|             |       |                |       | 75                  | 0               | 1   | 21.39                     | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.22                     | 20.8±1                       |
|             |       |                |       | 1                   | 37              | 1   | 21.17                     | 20.8±1                       |
|             |       |                |       | 1                   | 74              | 1   | 21.31                     | 20.8±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.36                     | 20.8±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.37                     | 20.8±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.34                     | 20.8±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.31                     | 20.8±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 18650 | 1855        | QPSK  | 1                | 0            | 0   | 21.82               | 21.4±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.92               | 21.4±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.91               | 21.4±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.01               | 21.4±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.97               | 21.4±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.08               | 21.4±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.1                | 21.4±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.57               | 21.4±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.55               | 21.4±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.58               | 21.4±1                 |
|          |       |             |       | 25               | 0            | 2   | 21.3                | 21.4±1                 |
|          |       |             |       | 25               | 12           | 2   | 21.32               | 21.4±1                 |
|          |       |             |       | 25               | 24           | 2   | 21.2                | 21.4±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.32               | 21.4±1                 |
|          | 18900 | 1880.0      | QPSK  | 1                | 0            | 0   | 22.23               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 0   | 22.22               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.21               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.23               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.2                | 21.3±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.33               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.22               | 21.3±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21                  | 20.7±1                 |
|          |       |             |       | 1                | 24           | 1   | 20.94               | 20.7±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.97               | 20.7±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.35               | 20.7±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.34               | 20.7±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.36               | 20.7±1                 |
|          |       |             |       | 50               | 0            | 2   | 21.18               | 20.7±1                 |
|          | 19150 | 1905        | QPSK  | 1                | 0            | 0   | 22.3                | 21.8±1                 |
|          |       |             |       | 1                | 24           | 0   | 22.25               | 21.8±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.21               | 21.8±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.36               | 21.8±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.38               | 21.8±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.37               | 21.8±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.25               | 21.8±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.16               | 20.7±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.1                | 20.7±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.17               | 20.7±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.36               | 20.7±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.38               | 20.7±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.34               | 20.7±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.31               | 20.7±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 18625 | 1852.5         | QPSK  | 1                   | 0               | 0   | 21.9                      | 21.4±1                       |
|             |       |                |       | 1                   | 12              | 0   | 21.88                     | 21.4±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22                        | 21.4±1                       |
|             |       |                |       | 12                  | 0               | 1   | 20.98                     | 21.4±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.07                     | 21.4±1                       |
|             |       |                |       | 12                  | 11              | 1   | 20.88                     | 21.4±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.1                      | 21.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.91                     | 20.6±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.97                     | 20.6±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.99                     | 20.6±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.81                     | 20.6±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.74                     | 20.6±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.74                     | 20.6±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.6±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 20.3                      | 20.9±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.74                     | 20.9±1                       |
|             |       |                |       | 1                   | 24              | 0   | 20.32                     | 20.9±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.18                     | 20.9±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.15                     | 20.9±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.2                      | 20.9±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.42                     | 20.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.3                      | 20.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.28                     | 20.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.2                      | 20.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.42                     | 20.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.42                     | 20.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.32                     | 20.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             | 19175 | 1907.5         | QPSK  | 1                   | 0               | 0   | 22.1                      | 21.7±1                       |
|             |       |                |       | 1                   | 12              | 0   | 22.03                     | 21.7±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.1                      | 21.7±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.26                     | 21.7±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.26                     | 21.7±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.36                     | 21.7±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.22                     | 21.7±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.11                     | 20.7±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.1                      | 20.7±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.01                     | 20.7±1                       |
|             |       |                |       | 12                  | 0               | 2   | 21.16                     | 20.7±1                       |
|             |       |                |       | 12                  | 6               | 2   | 21.09                     | 20.7±1                       |
|             |       |                |       | 12                  | 11              | 2   | 21.13                     | 20.7±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.31                     | 20.7±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 3MHz        | 18625 | 1852.5         | QPSK  | 1                   | 0               | 0   | 21.82                     | 21.4±1                       |
|             |       |                |       | 1                   | 7               | 0   | 21.72                     | 21.4±1                       |
|             |       |                |       | 1                   | 14              | 0   | 21.89                     | 21.4±1                       |
|             |       |                |       | 8                   | 0               | 1   | 20.98                     | 21.4±1                       |
|             |       |                |       | 8                   | 4               | 1   | 21                        | 21.4±1                       |
|             |       |                |       | 8                   | 7               | 1   | 21.03                     | 21.4±1                       |
|             |       |                |       | 15                  | 0               | 1   | 21                        | 21.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.55                     | 20.7±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.53                     | 20.7±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.5                      | 20.7±1                       |
|             |       |                |       | 8                   | 0               | 2   | 19.93                     | 20.7±1                       |
|             |       |                |       | 8                   | 4               | 2   | 19.84                     | 20.7±1                       |
|             |       |                |       | 8                   | 7               | 2   | 19.91                     | 20.7±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.3                      | 20.7±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.21                     | 21±1                         |
|             |       |                |       | 1                   | 7               | 0   | 19.84                     | 21±1                         |
|             |       |                |       | 1                   | 14              | 0   | 22.21                     | 21±1                         |
|             |       |                |       | 8                   | 0               | 1   | 22.2                      | 21±1                         |
|             |       |                |       | 8                   | 4               | 1   | 22.19                     | 21±1                         |
|             |       |                |       | 8                   | 7               | 1   | 22.12                     | 21±1                         |
|             |       |                |       | 15                  | 0               | 1   | 21.18                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.02                     | 20.7±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.1                      | 20.7±1                       |
|             |       |                |       | 1                   | 14              | 1   | 20.96                     | 20.7±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.3                      | 20.7±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.36                     | 20.7±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.37                     | 20.7±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.3                      | 20.7±1                       |
|             | 19175 | 1907.5         | QPSK  | 1                   | 0               | 0   | 22.28                     | 21.8±1                       |
|             |       |                |       | 1                   | 7               | 0   | 22.38                     | 21.8±1                       |
|             |       |                |       | 1                   | 14              | 0   | 22.18                     | 21.8±1                       |
|             |       |                |       | 8                   | 0               | 1   | 21.24                     | 21.8±1                       |
|             |       |                |       | 8                   | 4               | 1   | 21.28                     | 21.8±1                       |
|             |       |                |       | 8                   | 7               | 1   | 21.33                     | 21.8±1                       |
|             |       |                |       | 15                  | 0               | 1   | 21.2                      | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.18                     | 20.8±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.23                     | 20.8±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.11                     | 20.8±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.3                      | 20.8±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.37                     | 20.8±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.34                     | 20.8±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.31                     | 20.8±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 18607 | 1850.7         | QPSK  | 1                   | 0               | 0   | 21.88                     | 21.5±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.84                     | 21.5±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.87                     | 21.5±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.93                     | 21.5±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.88                     | 21.5±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.88                     | 21.5±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21                        | 21.5±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.89                     | 20.8±1                       |
|             |       |                |       | 1                   | 2               | 1   | 20.98                     | 20.8±1                       |
|             |       |                |       | 1                   | 5               | 1   | 20.8                      | 20.8±1                       |
|             |       |                |       | 3                   | 0               | 1   | 20.31                     | 20.8±1                       |
|             |       |                |       | 3                   | 1               | 1   | 20.33                     | 20.8±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.4                      | 20.8±1                       |
|             |       |                |       | 6                   | 0               | 2   | 21.22                     | 20.8±1                       |
|             | 18900 | 1880.0         | QPSK  | 1                   | 0               | 0   | 22.04                     | 21.2±1                       |
|             |       |                |       | 1                   | 2               | 0   | 20.33                     | 21.2±1                       |
|             |       |                |       | 1                   | 5               | 0   | 22.05                     | 21.2±1                       |
|             |       |                |       | 3                   | 0               | 0   | 22.06                     | 21.2±1                       |
|             |       |                |       | 3                   | 1               | 0   | 22.05                     | 21.2±1                       |
|             |       |                |       | 3                   | 2               | 0   | 22.1                      | 21.2±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21.18                     | 21.2±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.72                     | 20.8±1                       |
|             |       |                |       | 1                   | 2               | 1   | 20.68                     | 20.8±1                       |
|             |       |                |       | 1                   | 5               | 1   | 20.65                     | 20.8±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.33                     | 20.8±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.38                     | 20.8±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.35                     | 20.8±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.3                      | 20.8±1                       |
|             | 19193 | 1909.3         | QPSK  | 1                   | 0               | 0   | 22.18                     | 21.7±1                       |
|             |       |                |       | 1                   | 2               | 0   | 22.08                     | 21.7±1                       |
|             |       |                |       | 1                   | 5               | 0   | 22.16                     | 21.7±1                       |
|             |       |                |       | 3                   | 0               | 0   | 22.2                      | 21.7±1                       |
|             |       |                |       | 3                   | 1               | 0   | 22.11                     | 21.7±1                       |
|             |       |                |       | 3                   | 2               | 0   | 22.16                     | 21.7±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21.2                      | 21.7±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.98                     | 20.8±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.07                     | 20.8±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.04                     | 20.8±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.22                     | 20.8±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.17                     | 20.8±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.19                     | 20.8±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.31                     | 20.8±1                       |

#### LTE Band IV:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 20050 | 1720.0      | QPSK  | 1                | 0            | 0   | 21.27               | 20.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.33               | 20.9±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.35               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.54               | 20.9±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.54               | 20.9±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.48               | 20.9±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.52               | 20.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.76               | 20.5±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.66               | 20.5±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.74               | 20.5±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.31               | 20.5±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.33               | 20.5±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.33               | 20.5±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.32               | 20.5±1                 |
|          | 20175 | 1732.5      | QPSK  | 1                | 0            | 0   | 21.3                | 20.8±1                 |
|          |       |             |       | 1                | 49           | 0   | 20.33               | 20.8±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.21               | 20.8±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.6                | 20.8±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.61               | 20.8±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.62               | 20.8±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.58               | 20.8±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.31               | 20.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.38               | 20.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.32               | 20.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.3                | 20.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.3                | 20.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.34               | 20.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.3                | 20.3±1                 |
|          | 20300 | 1745.0      | QPSK  | 1                | 0            | 0   | 21.1                | 20.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.07               | 20.9±1                 |
|          |       |             |       | 1                | 99           | 0   | 21.18               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.59               | 20.9±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.63               | 20.9±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.59               | 20.9±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.56               | 20.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.48               | 20.4±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.57               | 20.4±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.57               | 20.4±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.3                | 20.4±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.4                | 20.4±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.24               | 20.4±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.31               | 20.4±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 15MHz       | 20025 | 1717.5         | QPSK  | 1                   | 0               | 0   | 21.36                     | 21±1                         |
|             |       |                |       | 1                   | 37              | 0   | 21.35                     | 21±1                         |
|             |       |                |       | 1                   | 74              | 0   | 21.39                     | 21±1                         |
|             |       |                |       | 36                  | 0               | 1   | 20.59                     | 21±1                         |
|             |       |                |       | 36                  | 16              | 1   | 20.67                     | 21±1                         |
|             |       |                |       | 36                  | 35              | 1   | 20.66                     | 21±1                         |
|             |       |                |       | 75                  | 0               | 1   | 20.6                      | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.05                     | 20.7±1                       |
|             |       |                |       | 1                   | 37              | 1   | 21.03                     | 20.7±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.96                     | 20.7±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.31                     | 20.7±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.35                     | 20.7±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.36                     | 20.7±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.32                     | 20.7±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.45                     | 20.9±1                       |
|             |       |                |       | 1                   | 37              | 0   | 20.35                     | 20.9±1                       |
|             |       |                |       | 1                   | 74              | 0   | 21.37                     | 20.9±1                       |
|             |       |                |       | 36                  | 0               | 1   | 20.6                      | 20.9±1                       |
|             |       |                |       | 36                  | 16              | 1   | 20.51                     | 20.9±1                       |
|             |       |                |       | 36                  | 35              | 1   | 20.52                     | 20.9±1                       |
|             |       |                |       | 75                  | 0               | 1   | 20.6                      | 20.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.31                     | 20.3±1                       |
|             |       |                |       | 1                   | 37              | 1   | 20.28                     | 20.3±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.29                     | 20.3±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.25                     | 20.3±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.4                      | 20.3±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             | 20325 | 1747.5         | QPSK  | 1                   | 0               | 0   | 21.33                     | 21±1                         |
|             |       |                |       | 1                   | 37              | 0   | 21.24                     | 21±1                         |
|             |       |                |       | 1                   | 74              | 0   | 21.38                     | 21±1                         |
|             |       |                |       | 36                  | 0               | 1   | 20.61                     | 21±1                         |
|             |       |                |       | 36                  | 16              | 1   | 20.59                     | 21±1                         |
|             |       |                |       | 36                  | 35              | 1   | 20.66                     | 21±1                         |
|             |       |                |       | 75                  | 0               | 1   | 20.58                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.73                     | 20.5±1                       |
|             |       |                |       | 1                   | 37              | 1   | 20.63                     | 20.5±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.72                     | 20.5±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.3                      | 20.5±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.32                     | 20.5±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.24                     | 20.5±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.31                     | 20.5±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 10MHz       | 20000 | 1715.0         | QPSK  | 1                   | 0               | 0   | 21.46                     | 21±1                         |
|             |       |                |       | 1                   | 24              | 0   | 21.44                     | 21±1                         |
|             |       |                |       | 1                   | 49              | 0   | 21.5                      | 21±1                         |
|             |       |                |       | 25                  | 0               | 1   | 20.6                      | 21±1                         |
|             |       |                |       | 25                  | 12              | 1   | 20.54                     | 21±1                         |
|             |       |                |       | 25                  | 24              | 1   | 20.59                     | 21±1                         |
|             |       |                |       | 50                  | 0               | 1   | 20.58                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.18                     | 20.7±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.19                     | 20.7±1                       |
|             |       |                |       | 1                   | 49              | 1   | 21.19                     | 20.7±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.31                     | 20.7±1                       |
|             |       |                |       | 25                  | 12              | 2   | 20.37                     | 20.7±1                       |
|             |       |                |       | 25                  | 24              | 2   | 20.35                     | 20.7±1                       |
|             |       |                |       | 50                  | 0               | 2   | 20.32                     | 20.7±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.53                     | 21±1                         |
|             |       |                |       | 1                   | 24              | 0   | 20.37                     | 21±1                         |
|             |       |                |       | 1                   | 49              | 0   | 21.58                     | 21±1                         |
|             |       |                |       | 25                  | 0               | 1   | 20.55                     | 21±1                         |
|             |       |                |       | 25                  | 12              | 1   | 20.65                     | 21±1                         |
|             |       |                |       | 25                  | 24              | 1   | 20.58                     | 21±1                         |
|             |       |                |       | 50                  | 0               | 1   | 20.57                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.36                     | 20.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.45                     | 20.3±1                       |
|             |       |                |       | 1                   | 49              | 1   | 20.39                     | 20.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             |       |                |       | 25                  | 12              | 2   | 20.32                     | 20.3±1                       |
|             |       |                |       | 25                  | 24              | 2   | 20.37                     | 20.3±1                       |
|             |       |                |       | 50                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             | 20350 | 1750.0         | QPSK  | 1                   | 0               | 0   | 21.53                     | 21±1                         |
|             |       |                |       | 1                   | 24              | 0   | 21.47                     | 21±1                         |
|             |       |                |       | 1                   | 49              | 0   | 21.55                     | 21±1                         |
|             |       |                |       | 25                  | 0               | 1   | 20.61                     | 21±1                         |
|             |       |                |       | 25                  | 12              | 1   | 20.63                     | 21±1                         |
|             |       |                |       | 25                  | 24              | 1   | 20.54                     | 21±1                         |
|             |       |                |       | 50                  | 0               | 1   | 20.62                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.52                     | 20.4±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.57                     | 20.4±1                       |
|             |       |                |       | 1                   | 49              | 1   | 20.52                     | 20.4±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.4±1                       |
|             |       |                |       | 25                  | 12              | 2   | 20.24                     | 20.4±1                       |
|             |       |                |       | 25                  | 24              | 2   | 20.24                     | 20.4±1                       |
|             |       |                |       | 50                  | 0               | 2   | 20.31                     | 20.4±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 20000 | 1715.0         | QPSK  | 1                   | 0               | 0   | 21.5                      | 21±1                         |
|             |       |                |       | 1                   | 12              | 0   | 21.59                     | 21±1                         |
|             |       |                |       | 1                   | 24              | 0   | 21.49                     | 21±1                         |
|             |       |                |       | 12                  | 0               | 1   | 20.55                     | 21±1                         |
|             |       |                |       | 12                  | 6               | 1   | 20.59                     | 21±1                         |
|             |       |                |       | 12                  | 11              | 1   | 20.49                     | 21±1                         |
|             |       |                |       | 25                  | 0               | 1   | 20.6                      | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.5                      | 20.4±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.52                     | 20.4±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.47                     | 20.4±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.31                     | 20.4±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.36                     | 20.4±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.34                     | 20.4±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.32                     | 20.4±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.38                     | 20.9±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.26                     | 20.9±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.48                     | 20.9±1                       |
|             |       |                |       | 12                  | 0               | 1   | 20.53                     | 20.9±1                       |
|             |       |                |       | 12                  | 6               | 1   | 20.63                     | 20.9±1                       |
|             |       |                |       | 12                  | 11              | 1   | 20.45                     | 20.9±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.54                     | 20.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.84                     | 20.6±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.94                     | 20.6±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.78                     | 20.6±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.3                      | 20.6±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.28                     | 20.6±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.38                     | 20.6±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.6±1                       |
|             | 20350 | 1750.0         | QPSK  | 1                   | 0               | 0   | 21.35                     | 21±1                         |
|             |       |                |       | 1                   | 12              | 0   | 21.34                     | 21±1                         |
|             |       |                |       | 1                   | 24              | 0   | 21.34                     | 21±1                         |
|             |       |                |       | 12                  | 0               | 1   | 20.61                     | 21±1                         |
|             |       |                |       | 12                  | 6               | 1   | 20.61                     | 21±1                         |
|             |       |                |       | 12                  | 11              | 1   | 20.68                     | 21±1                         |
|             |       |                |       | 25                  | 0               | 1   | 20.58                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.48                     | 20.4±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.42                     | 20.4±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.46                     | 20.4±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.3                      | 20.4±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.37                     | 20.4±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.33                     | 20.4±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.31                     | 20.4±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 3MHz        | 19965 | 1711.5         | QPSK  | 1                   | 0               | 0   | 21.48                     | 21±1                         |
|             |       |                |       | 1                   | 7               | 0   | 21.55                     | 21±1                         |
|             |       |                |       | 1                   | 14              | 0   | 21.55                     | 21±1                         |
|             |       |                |       | 8                   | 0               | 1   | 20.54                     | 21±1                         |
|             |       |                |       | 8                   | 4               | 1   | 20.56                     | 21±1                         |
|             |       |                |       | 8                   | 7               | 1   | 20.53                     | 21±1                         |
|             |       |                |       | 15                  | 0               | 1   | 20.62                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.15                     | 20.7±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.17                     | 20.7±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.17                     | 20.7±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.31                     | 20.7±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.4                      | 20.7±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.28                     | 20.7±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.32                     | 20.7±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.52                     | 21±1                         |
|             |       |                |       | 1                   | 7               | 0   | 20.4                      | 21±1                         |
|             |       |                |       | 1                   | 14              | 0   | 21.56                     | 21±1                         |
|             |       |                |       | 8                   | 0               | 1   | 20.49                     | 21±1                         |
|             |       |                |       | 8                   | 4               | 1   | 20.43                     | 21±1                         |
|             |       |                |       | 8                   | 7               | 1   | 20.55                     | 21±1                         |
|             |       |                |       | 15                  | 0               | 1   | 20.52                     | 21±1                         |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.35                     | 20.3±1                       |
|             |       |                |       | 1                   | 7               | 1   | 20.35                     | 20.3±1                       |
|             |       |                |       | 1                   | 14              | 1   | 20.33                     | 20.3±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.3                      | 20.3±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.27                     | 20.3±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.23                     | 20.3±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             | 20385 | 1753.5         | QPSK  | 1                   | 0               | 0   | 21.58                     | 21.1±1                       |
|             |       |                |       | 1                   | 7               | 0   | 21.63                     | 21.1±1                       |
|             |       |                |       | 1                   | 14              | 0   | 21.48                     | 21.1±1                       |
|             |       |                |       | 8                   | 0               | 1   | 20.53                     | 21.1±1                       |
|             |       |                |       | 8                   | 4               | 1   | 20.53                     | 21.1±1                       |
|             |       |                |       | 8                   | 7               | 1   | 20.56                     | 21.1±1                       |
|             |       |                |       | 15                  | 0               | 1   | 20.57                     | 21.1±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.56                     | 20.4±1                       |
|             |       |                |       | 1                   | 7               | 1   | 20.59                     | 20.4±1                       |
|             |       |                |       | 1                   | 14              | 1   | 20.56                     | 20.4±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.3                      | 20.4±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.4                      | 20.4±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.34                     | 20.4±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.31                     | 20.4±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 19957 | 1710.7         | QPSK  | 1                   | 0               | 0   | 21.62                     | 21.2±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.71                     | 21.2±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.52                     | 21.2±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.68                     | 21.2±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.64                     | 21.2±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.68                     | 21.2±1                       |
|             |       |                | 16QAM | 6                   | 0               | 1   | 20.68                     | 21.2±1                       |
|             |       |                |       | 1                   | 0               | 1   | 20.44                     | 20.5±1                       |
|             |       |                |       | 1                   | 2               | 1   | 20.4                      | 20.5±1                       |
|             |       |                |       | 1                   | 5               | 1   | 20.54                     | 20.5±1                       |
|             |       |                |       | 3                   | 0               | 1   | 20.76                     | 20.5±1                       |
|             |       |                |       | 3                   | 1               | 1   | 20.69                     | 20.5±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.77                     | 20.5±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.32                     | 20.5±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.52                     | 21.1±1                       |
|             |       |                |       | 1                   | 2               | 0   | 20.69                     | 21.1±1                       |
|             |       |                |       | 1                   | 5               | 0   | 21.56                     | 21.1±1                       |
|             |       |                |       | 3                   | 0               | 0   | 21.53                     | 21.1±1                       |
|             |       |                |       | 3                   | 1               | 0   | 21.53                     | 21.1±1                       |
|             |       |                |       | 3                   | 2               | 0   | 21.62                     | 21.1±1                       |
|             |       |                | 16QAM | 6                   | 0               | 1   | 20.6                      | 21.1±1                       |
|             |       |                |       | 1                   | 0               | 1   | 20.45                     | 20.6±1                       |
|             |       |                |       | 1                   | 2               | 1   | 20.37                     | 20.6±1                       |
|             |       |                |       | 1                   | 5               | 1   | 20.52                     | 20.6±1                       |
|             |       |                |       | 3                   | 0               | 1   | 20.78                     | 20.6±1                       |
|             |       |                |       | 3                   | 1               | 1   | 20.83                     | 20.6±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.88                     | 20.6±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.3                      | 20.6±1                       |
|             | 20393 | 1754.3         | QPSK  | 1                   | 0               | 0   | 21.48                     | 21±1                         |
|             |       |                |       | 1                   | 2               | 0   | 21.56                     | 21±1                         |
|             |       |                |       | 1                   | 5               | 0   | 21.43                     | 21±1                         |
|             |       |                |       | 3                   | 0               | 0   | 20.53                     | 21±1                         |
|             |       |                |       | 3                   | 1               | 0   | 20.5                      | 21±1                         |
|             |       |                |       | 3                   | 2               | 0   | 20.59                     | 21±1                         |
|             |       |                | 16QAM | 6                   | 0               | 1   | 20.62                     | 21±1                         |
|             |       |                |       | 1                   | 0               | 1   | 21.15                     | 20.7±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.12                     | 20.7±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.17                     | 20.7±1                       |
|             |       |                |       | 3                   | 0               | 1   | 20.3                      | 20.7±1                       |
|             |       |                |       | 3                   | 1               | 1   | 20.21                     | 20.7±1                       |
|             |       |                |       | 3                   | 2               | 1   | 20.32                     | 20.7±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.31                     | 20.7±1                       |

### LTE Band VII:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 20MHz    | 20850 | 2510        | QPSK  | 1                | 0            | 0   | 20.86               | 20.6±1                 |
|          |       |             |       | 1                | 49           | 0   | 20.96               | 20.6±1                 |
|          |       |             |       | 1                | 99           | 0   | 20.87               | 20.6±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.31               | 20.6±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.34               | 20.6±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.33               | 20.6±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.32               | 20.6±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.33               | 20.4±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.3                | 20.4±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.41               | 20.4±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.32               | 20.4±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.35               | 20.4±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.33               | 20.4±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.31               | 20.4±1                 |
|          | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 21.04               | 20.6±1                 |
|          |       |             |       | 1                | 49           | 0   | 20.35               | 20.6±1                 |
|          |       |             |       | 1                | 99           | 0   | 20.95               | 20.6±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.31               | 20.6±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.23               | 20.6±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.38               | 20.6±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.38               | 20.6±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.45               | 20.4±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.38               | 20.4±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.38               | 20.4±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.32               | 20.4±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.32               | 20.4±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.33               | 20.4±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.3                | 20.4±1                 |
|          | 21350 | 2560        | QPSK  | 1                | 0            | 0   | 21                  | 20.7±1                 |
|          |       |             |       | 1                | 49           | 0   | 20.96               | 20.7±1                 |
|          |       |             |       | 1                | 99           | 0   | 21                  | 20.7±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.45               | 20.7±1                 |
|          |       |             |       | 50               | 24           | 1   | 20.46               | 20.7±1                 |
|          |       |             |       | 50               | 49           | 1   | 20.55               | 20.7±1                 |
|          |       |             |       | 100              | 0            | 1   | 20.48               | 20.7±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.3                | 20.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.34               | 20.3±1                 |
|          |       |             |       | 1                | 99           | 1   | 20.37               | 20.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.3                | 20.3±1                 |
|          |       |             |       | 50               | 24           | 2   | 20.32               | 20.3±1                 |
|          |       |             |       | 50               | 49           | 2   | 20.33               | 20.3±1                 |
|          |       |             |       | 100              | 0            | 2   | 20.31               | 20.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 15MHz       | 20825 | 1717.5         | QPSK  | 1                   | 0               | 0   | 20.95                     | 20.6±1                       |
|             |       |                |       | 1                   | 37              | 0   | 21.01                     | 20.6±1                       |
|             |       |                |       | 1                   | 74              | 0   | 20.86                     | 20.6±1                       |
|             |       |                |       | 36                  | 0               | 1   | 20.31                     | 20.6±1                       |
|             |       |                |       | 36                  | 16              | 1   | 20.33                     | 20.6±1                       |
|             |       |                |       | 36                  | 35              | 1   | 20.32                     | 20.6±1                       |
|             |       |                |       | 75                  | 0               | 1   | 20.32                     | 20.6±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.53                     | 20.4±1                       |
|             |       |                |       | 1                   | 37              | 1   | 20.53                     | 20.4±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.59                     | 20.4±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.32                     | 20.4±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.39                     | 20.4±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.37                     | 20.4±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.31                     | 20.4±1                       |
|             | 21100 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.24                     | 20.8±1                       |
|             |       |                |       | 1                   | 37              | 0   | 20.39                     | 20.8±1                       |
|             |       |                |       | 1                   | 74              | 0   | 21.3                      | 20.8±1                       |
|             |       |                |       | 36                  | 0               | 1   | 20.31                     | 20.8±1                       |
|             |       |                |       | 36                  | 16              | 1   | 20.24                     | 20.8±1                       |
|             |       |                |       | 36                  | 35              | 1   | 20.34                     | 20.8±1                       |
|             |       |                |       | 75                  | 0               | 1   | 20.3                      | 20.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.45                     | 20.4±1                       |
|             |       |                |       | 1                   | 37              | 1   | 20.43                     | 20.4±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.51                     | 20.4±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.32                     | 20.4±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.33                     | 20.4±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.36                     | 20.4±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.3                      | 20.4±1                       |
|             | 21375 | 1747.5         | QPSK  | 1                   | 0               | 0   | 21.28                     | 20.9±1                       |
|             |       |                |       | 1                   | 37              | 0   | 21.19                     | 20.9±1                       |
|             |       |                |       | 1                   | 74              | 0   | 21.34                     | 20.9±1                       |
|             |       |                |       | 36                  | 0               | 1   | 20.5                      | 20.9±1                       |
|             |       |                |       | 36                  | 16              | 1   | 20.51                     | 20.9±1                       |
|             |       |                |       | 36                  | 35              | 1   | 20.55                     | 20.9±1                       |
|             |       |                |       | 75                  | 0               | 1   | 20.5                      | 20.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.39                     | 20.3±1                       |
|             |       |                |       | 1                   | 37              | 1   | 20.29                     | 20.3±1                       |
|             |       |                |       | 1                   | 74              | 1   | 20.36                     | 20.3±1                       |
|             |       |                |       | 36                  | 0               | 2   | 20.3                      | 20.3±1                       |
|             |       |                |       | 36                  | 16              | 2   | 20.33                     | 20.3±1                       |
|             |       |                |       | 36                  | 35              | 2   | 20.31                     | 20.3±1                       |
|             |       |                |       | 75                  | 0               | 2   | 20.31                     | 20.3±1                       |

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 20800 | 2502        | QPSK  | 1                | 0            | 0   | 20.95               | 20.7±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.02               | 20.7±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.04               | 20.7±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.31               | 20.7±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.36               | 20.7±1                 |
|          |       |             |       | 25               | 24           | 1   | 20.36               | 20.7±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.32               | 20.7±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.57               | 20.4±1                 |
|          |       |             |       | 1                | 24           | 1   | 20.49               | 20.4±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.67               | 20.4±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.32               | 20.4±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.22               | 20.4±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.38               | 20.4±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.31               | 20.4±1                 |
|          | 21100 | 2535        | QPSK  | 1                | 0            | 0   | 21.23               | 20.7±1                 |
|          |       |             |       | 1                | 24           | 0   | 20.32               | 20.7±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.18               | 20.7±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.31               | 20.7±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.34               | 20.7±1                 |
|          |       |             |       | 25               | 24           | 1   | 20.37               | 20.7±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.3                | 20.7±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.3                | 20.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 20.37               | 20.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.39               | 20.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.32               | 20.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.27               | 20.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.4                | 20.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.3                | 20.3±1                 |
|          | 21400 | 2565        | QPSK  | 1                | 0            | 0   | 21.38               | 20.9±1                 |
|          |       |             |       | 1                | 24           | 0   | 21.35               | 20.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 21.33               | 20.9±1                 |
|          |       |             |       | 25               | 0            | 1   | 20.43               | 20.9±1                 |
|          |       |             |       | 25               | 12           | 1   | 20.51               | 20.9±1                 |
|          |       |             |       | 25               | 24           | 1   | 20.33               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 20.48               | 20.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 20.39               | 20.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 20.3                | 20.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 20.44               | 20.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.3                | 20.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.25               | 20.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.23               | 20.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.31               | 20.3±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 19975 | 1712.5         | QPSK  | 1                   | 0               | 0   | 20.9                      | 20.6±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.87                     | 20.6±1                       |
|             |       |                |       | 1                   | 24              | 0   | 20.97                     | 20.6±1                       |
|             |       |                |       | 12                  | 0               | 1   | 20.31                     | 20.6±1                       |
|             |       |                |       | 12                  | 6               | 1   | 20.33                     | 20.6±1                       |
|             |       |                |       | 12                  | 11              | 1   | 20.3                      | 20.6±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.32                     | 20.6±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.3                      | 20.3±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.38                     | 20.3±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.34                     | 20.3±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.32                     | 20.3±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.37                     | 20.3±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.39                     | 20.3±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.31                     | 20.3±1                       |
|             | 20175 | 1732.5         | QPSK  | 1                   | 0               | 0   | 21.12                     | 20.7±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.37                     | 20.4±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.12                     | 20.4±1                       |
|             |       |                |       | 12                  | 0               | 1   | 20.31                     | 20.4±1                       |
|             |       |                |       | 12                  | 6               | 1   | 20.32                     | 20.4±1                       |
|             |       |                |       | 12                  | 11              | 1   | 20.41                     | 20.4±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.32                     | 20.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.53                     | 20.4±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.63                     | 20.4±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.52                     | 20.4±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.32                     | 20.4±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.26                     | 20.4±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.33                     | 20.4±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.3                      | 20.4±1                       |
|             | 20375 | 1752.5         | QPSK  | 1                   | 0               | 0   | 21.22                     | 20.8±1                       |
|             |       |                |       | 1                   | 12              | 0   | 21.12                     | 20.8±1                       |
|             |       |                |       | 1                   | 24              | 0   | 21.14                     | 20.8±1                       |
|             |       |                |       | 12                  | 0               | 1   | 20.45                     | 20.8±1                       |
|             |       |                |       | 12                  | 6               | 1   | 20.53                     | 20.8±1                       |
|             |       |                |       | 12                  | 11              | 1   | 20.49                     | 20.8±1                       |
|             |       |                |       | 25                  | 0               | 1   | 20.48                     | 20.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.67                     | 20.5±1                       |
|             |       |                |       | 1                   | 12              | 1   | 20.69                     | 20.5±1                       |
|             |       |                |       | 1                   | 24              | 1   | 20.74                     | 20.5±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.3                      | 20.5±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.38                     | 20.5±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.33                     | 20.5±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.31                     | 20.5±1                       |

### LTE Band XII:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 23060 | 704         | QPSK  | 1                | 0            | 0   | 22.3                | 23±1                   |
|          |       |             |       | 1                | 24           | 0   | 22.22               | 23±1                   |
|          |       |             |       | 1                | 49           | 0   | 22.27               | 23±1                   |
|          |       |             |       | 25               | 0            | 1   | 21.48               | 23±1                   |
|          |       |             |       | 25               | 12           | 1   | 21.52               | 23±1                   |
|          |       |             |       | 25               | 24           | 1   | 21.45               | 23±1                   |
|          |       |             |       | 50               | 0            | 1   | 23.54               | 23±1                   |
|          |       |             | 16QAM | 1                | 0            | 1   | 22.05               | 21.3±1                 |
|          |       |             |       | 1                | 24           | 1   | 22.09               | 21.3±1                 |
|          |       |             |       | 1                | 49           | 1   | 22.05               | 21.3±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.56               | 21.3±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.52               | 21.3±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.56               | 21.3±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.54               | 21.3±1                 |
|          | 23095 | 707.5       | QPSK  | 1                | 0            | 0   | 22.48               | 21.5±1                 |
|          |       |             |       | 1                | 24           | 0   | 20.52               | 21.5±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.52               | 21.5±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.58               | 21.5±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.55               | 21.5±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.58               | 21.5±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.64               | 21.5±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.28               | 20.9±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.22               | 20.9±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.27               | 20.9±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.62               | 20.9±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.56               | 20.9±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.56               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.65               | 20.9±1                 |
|          | 23130 | 711         | QPSK  | 1                | 0            | 0   | 22.43               | 21.9±1                 |
|          |       |             |       | 1                | 24           | 0   | 22.38               | 21.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.39               | 21.9±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.38               | 21.9±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.33               | 21.9±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.43               | 21.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.42               | 21.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.34               | 20.9±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.41               | 20.9±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.3                | 20.9±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.55               | 20.9±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.47               | 20.9±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.55               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.45               | 20.9±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 23035 | 701.5          | QPSK  | 1                   | 0               | 0   | 22.42                     | 21.9±1                       |
|             |       |                |       | 1                   | 12              | 0   | 22.46                     | 21.9±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.47                     | 21.9±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.35                     | 21.9±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.45                     | 21.9±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.35                     | 21.9±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.36                     | 21.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.43                     | 20.9±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.43                     | 20.9±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.37                     | 20.9±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.41                     | 20.9±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.43                     | 20.9±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.37                     | 20.9±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.45                     | 20.9±1                       |
|             | 23095 | 707.5          | QPSK  | 1                   | 0               | 0   | 22.3                      | 21.4±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.43                     | 21.4±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.3                      | 21.4±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.4                      | 21.4±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.45                     | 21.4±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.43                     | 21.4±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.43                     | 21.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.67                     | 21.1±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.73                     | 21.1±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.64                     | 21.1±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.6                      | 21.1±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.67                     | 21.1±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.62                     | 21.1±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.42                     | 21.1±1                       |
|             | 23155 | 713.5          | QPSK  | 1                   | 0               | 0   | 22.2                      | 21.8±1                       |
|             |       |                |       | 1                   | 12              | 0   | 22.2                      | 21.8±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.24                     | 21.8±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.38                     | 21.8±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.45                     | 21.8±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.33                     | 21.8±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.3                      | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.34                     | 20.9±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.43                     | 20.9±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.26                     | 20.9±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.36                     | 20.9±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.35                     | 20.9±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.41                     | 20.9±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.4                      | 20.9±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 3MHz        | 23025 | 700.5          | QPSK  | 1                   | 0               | 0   | 22.3                      | 21.8±1                       |
|             |       |                |       | 1                   | 7               | 0   | 22.34                     | 21.8±1                       |
|             |       |                |       | 1                   | 14              | 0   | 22.23                     | 21.8±1                       |
|             |       |                |       | 8                   | 0               | 1   | 21.32                     | 21.8±1                       |
|             |       |                |       | 8                   | 4               | 1   | 21.31                     | 21.8±1                       |
|             |       |                |       | 8                   | 7               | 1   | 21.24                     | 21.8±1                       |
|             |       |                |       | 15                  | 0               | 1   | 21.41                     | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 22.05                     | 21.2±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.98                     | 21.2±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.96                     | 21.2±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.36                     | 21.2±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.44                     | 21.2±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.3                      | 21.2±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.53                     | 21.2±1                       |
|             | 23095 | 707.5          | QPSK  | 1                   | 0               | 0   | 22.46                     | 21.5±1                       |
|             |       |                |       | 1                   | 7               | 0   | 20.44                     | 21.5±1                       |
|             |       |                |       | 1                   | 14              | 0   | 22.42                     | 21.5±1                       |
|             |       |                |       | 8                   | 0               | 1   | 21.28                     | 21.5±1                       |
|             |       |                |       | 8                   | 4               | 1   | 21.26                     | 21.5±1                       |
|             |       |                |       | 8                   | 7               | 1   | 21.21                     | 21.5±1                       |
|             |       |                |       | 15                  | 0               | 1   | 21.38                     | 21.5±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.25                     | 20.8±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.29                     | 20.8±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.29                     | 20.8±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.36                     | 20.8±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.32                     | 20.8±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.26                     | 20.8±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.33                     | 20.8±1                       |
|             | 23025 | 714.5          | QPSK  | 1                   | 0               | 0   | 22.4                      | 21.8±1                       |
|             |       |                |       | 1                   | 7               | 0   | 22.41                     | 21.8±1                       |
|             |       |                |       | 1                   | 14              | 0   | 22.33                     | 21.8±1                       |
|             |       |                |       | 8                   | 0               | 1   | 21.28                     | 21.8±1                       |
|             |       |                |       | 8                   | 4               | 1   | 21.31                     | 21.8±1                       |
|             |       |                |       | 8                   | 7               | 1   | 21.32                     | 21.8±1                       |
|             |       |                |       | 15                  | 0               | 1   | 21.34                     | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.38                     | 20.9±1                       |
|             |       |                |       | 1                   | 7               | 1   | 21.32                     | 20.9±1                       |
|             |       |                |       | 1                   | 14              | 1   | 21.43                     | 20.9±1                       |
|             |       |                |       | 8                   | 0               | 2   | 20.36                     | 20.9±1                       |
|             |       |                |       | 8                   | 4               | 2   | 20.4                      | 20.9±1                       |
|             |       |                |       | 8                   | 7               | 2   | 20.43                     | 20.9±1                       |
|             |       |                |       | 15                  | 0               | 2   | 20.4                      | 20.9±1                       |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 1.4MHz      | 23017 | 699.7          | QPSK  | 1                   | 0               | 0   | 22.17                     | 21.9±1                       |
|             |       |                |       | 1                   | 2               | 0   | 22.11                     | 21.9±1                       |
|             |       |                |       | 1                   | 5               | 0   | 22.17                     | 21.9±1                       |
|             |       |                |       | 3                   | 0               | 0   | 22.43                     | 21.9±1                       |
|             |       |                |       | 3                   | 1               | 0   | 22.47                     | 21.9±1                       |
|             |       |                |       | 3                   | 2               | 0   | 22.37                     | 21.9±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21.26                     | 21.9±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 20.85                     | 21±1                         |
|             |       |                |       | 1                   | 2               | 1   | 20.95                     | 21±1                         |
|             |       |                |       | 1                   | 5               | 1   | 20.77                     | 21±1                         |
|             |       |                |       | 3                   | 0               | 1   | 21.7                      | 21±1                         |
|             |       |                |       | 3                   | 1               | 1   | 21.65                     | 21±1                         |
|             |       |                |       | 3                   | 2               | 1   | 21.62                     | 21±1                         |
|             |       |                |       | 6                   | 0               | 2   | 20.3                      | 21±1                         |
|             | 23095 | 707.5          | QPSK  | 1                   | 0               | 0   | 22.26                     | 21.8±1                       |
|             |       |                |       | 1                   | 2               | 0   | 21.65                     | 21.8±1                       |
|             |       |                |       | 1                   | 5               | 0   | 22.34                     | 21.8±1                       |
|             |       |                |       | 3                   | 0               | 0   | 22.37                     | 21.8±1                       |
|             |       |                |       | 3                   | 1               | 0   | 22.3                      | 21.8±1                       |
|             |       |                |       | 3                   | 2               | 0   | 22.45                     | 21.8±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21.2                      | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.05                     | 20.9±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.15                     | 20.9±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.02                     | 20.9±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.4                      | 20.9±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.33                     | 20.9±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.38                     | 20.9±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.33                     | 20.9±1                       |
|             | 23173 | 715.3          | QPSK  | 1                   | 0               | 0   | 22.25                     | 21.7±1                       |
|             |       |                |       | 1                   | 2               | 0   | 22.18                     | 21.7±1                       |
|             |       |                |       | 1                   | 5               | 0   | 22.15                     | 21.7±1                       |
|             |       |                |       | 3                   | 0               | 0   | 22.25                     | 21.7±1                       |
|             |       |                |       | 3                   | 1               | 0   | 22.17                     | 21.7±1                       |
|             |       |                |       | 3                   | 2               | 0   | 22.25                     | 21.7±1                       |
|             |       |                |       | 6                   | 0               | 1   | 21.23                     | 21.7±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.08                     | 20.9±1                       |
|             |       |                |       | 1                   | 2               | 1   | 21.1                      | 20.9±1                       |
|             |       |                |       | 1                   | 5               | 1   | 21.03                     | 20.9±1                       |
|             |       |                |       | 3                   | 0               | 1   | 21.42                     | 20.9±1                       |
|             |       |                |       | 3                   | 1               | 1   | 21.39                     | 20.9±1                       |
|             |       |                |       | 3                   | 2               | 1   | 21.41                     | 20.9±1                       |
|             |       |                |       | 6                   | 0               | 2   | 20.4                      | 20.9±1                       |

### LTE Band XVII:

| BW (MHz) | Ch    | Freq. (MHz) | Mode  | UL RB Allocation | UL RB Offset | MPR | Average power (dBm) | Tune up Power tolerant |
|----------|-------|-------------|-------|------------------|--------------|-----|---------------------|------------------------|
| 10MHz    | 23780 | 709.0       | QPSK  | 1                | 0            | 0   | 22.25               | 21.9±1                 |
|          |       |             |       | 1                | 24           | 0   | 22.29               | 21.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.32               | 21.9±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.5                | 21.9±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.53               | 21.9±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.41               | 21.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.54               | 21.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.81               | 21.2±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.72               | 21.2±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.77               | 21.2±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.55               | 21.2±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.56               | 21.2±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.62               | 21.2±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.6                | 21.2±1                 |
|          | 23790 | 701.0       | QPSK  | 1                | 0            | 0   | 22.44               | 21.5±1                 |
|          |       |             |       | 1                | 24           | 0   | 20.56               | 21.5±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.49               | 21.5±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.42               | 21.5±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.46               | 21.5±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.5                | 21.5±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.44               | 21.5±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.2                | 20.9±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.29               | 20.9±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.12               | 20.9±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.5                | 20.9±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.52               | 20.9±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.6                | 20.9±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.48               | 20.9±1                 |
|          | 23800 | 711.0       | QPSK  | 1                | 0            | 0   | 22.41               | 21.9±1                 |
|          |       |             |       | 1                | 24           | 0   | 22.43               | 21.9±1                 |
|          |       |             |       | 1                | 49           | 0   | 22.47               | 21.9±1                 |
|          |       |             |       | 25               | 0            | 1   | 21.38               | 21.9±1                 |
|          |       |             |       | 25               | 12           | 1   | 21.28               | 21.9±1                 |
|          |       |             |       | 25               | 24           | 1   | 21.4                | 21.9±1                 |
|          |       |             |       | 50               | 0            | 1   | 21.35               | 21.9±1                 |
|          |       |             | 16QAM | 1                | 0            | 1   | 21.3                | 20.9±1                 |
|          |       |             |       | 1                | 24           | 1   | 21.4                | 20.9±1                 |
|          |       |             |       | 1                | 49           | 1   | 21.28               | 20.9±1                 |
|          |       |             |       | 25               | 0            | 2   | 20.54               | 20.9±1                 |
|          |       |             |       | 25               | 12           | 2   | 20.57               | 20.9±1                 |
|          |       |             |       | 25               | 24           | 2   | 20.55               | 20.9±1                 |
|          |       |             |       | 50               | 0            | 2   | 20.4                | 20.9±1                 |

| BW<br>(MHz) | Ch    | Freq.<br>(MHz) | Mode  | UL RB<br>Allocation | UL RB<br>Offset | MPR | Average<br>power<br>(dBm) | Tune up<br>Power<br>tolerant |
|-------------|-------|----------------|-------|---------------------|-----------------|-----|---------------------------|------------------------------|
| 5MHz        | 23755 | 706.5          | QPSK  | 1                   | 0               | 0   | 22.2                      | 21.8±1                       |
|             |       |                |       | 1                   | 12              | 0   | 22.13                     | 21.8±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.25                     | 21.8±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.41                     | 21.8±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.5                      | 21.8±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.48                     | 21.8±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.4                      | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.22                     | 20.8±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.2                      | 20.8±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.16                     | 20.8±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.4                      | 20.8±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.44                     | 20.8±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.46                     | 20.8±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.43                     | 20.8±1                       |
|             | 23790 | 710.0          | QPSK  | 1                   | 0               | 0   | 22.26                     | 21.4±1                       |
|             |       |                |       | 1                   | 12              | 0   | 20.44                     | 21.4±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.34                     | 21.4±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.3                      | 21.4±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.33                     | 21.4±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.25                     | 21.4±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.42                     | 21.4±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.24                     | 20.8±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.24                     | 20.8±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.14                     | 20.8±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.38                     | 20.8±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.45                     | 20.8±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.38                     | 20.8±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.5                      | 20.8±1                       |
|             | 23825 | 713.5          | QPSK  | 1                   | 0               | 0   | 22.29                     | 21.8±1                       |
|             |       |                |       | 1                   | 12              | 0   | 22.34                     | 21.8±1                       |
|             |       |                |       | 1                   | 24              | 0   | 22.38                     | 21.8±1                       |
|             |       |                |       | 12                  | 0               | 1   | 21.32                     | 21.8±1                       |
|             |       |                |       | 12                  | 6               | 1   | 21.32                     | 21.8±1                       |
|             |       |                |       | 12                  | 11              | 1   | 21.37                     | 21.8±1                       |
|             |       |                |       | 25                  | 0               | 1   | 21.29                     | 21.8±1                       |
|             |       |                | 16QAM | 1                   | 0               | 1   | 21.3                      | 20.8±1                       |
|             |       |                |       | 1                   | 12              | 1   | 21.31                     | 20.8±1                       |
|             |       |                |       | 1                   | 24              | 1   | 21.33                     | 20.8±1                       |
|             |       |                |       | 12                  | 0               | 2   | 20.35                     | 20.8±1                       |
|             |       |                |       | 12                  | 6               | 2   | 20.25                     | 20.8±1                       |
|             |       |                |       | 12                  | 11              | 2   | 20.41                     | 20.8±1                       |
|             |       |                |       | 25                  | 0               | 2   | 20.36                     | 20.8±1                       |

## ERP & EIRP

### EIRP for LTE Band II (Part 24E)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 1850.7          | 1.4      | QPSK       | 1/0            | 13.54                   | V                    | 7.88                          | 0.85            | 20.57                | 33.01       |
| 1880            | 1.4      | QPSK       | 1/0            | 13.7                    | V                    | 7.88                          | 0.85            | 20.73                | 33.01       |
| 1909.3          | 1.4      | QPSK       | 1/0            | 13.84                   | V                    | 7.88                          | 0.85            | 20.87                | 33.01       |
| 1850.7          | 1.4      | QPSK       | 1/0            | 12.28                   | H                    | 7.88                          | 0.85            | 19.31                | 33.01       |
| 1880            | 1.4      | QPSK       | 1/0            | 12.54                   | H                    | 7.88                          | 0.85            | 19.57                | 33.01       |
| 1909.3          | 1.4      | QPSK       | 1/0            | 12.48                   | H                    | 7.88                          | 0.85            | 19.51                | 33.01       |
| 1850.7          | 1.4      | 16-QAM     | 1/0            | 12.55                   | V                    | 7.88                          | 0.85            | 19.58                | 33.01       |
| 1880            | 1.4      | 16-QAM     | 1/0            | 12.38                   | V                    | 7.88                          | 0.85            | 19.41                | 33.01       |
| 1909.3          | 1.4      | 16-QAM     | 1/0            | 12.64                   | V                    | 7.88                          | 0.85            | 19.67                | 33.01       |
| 1850.7          | 1.4      | 16-QAM     | 1/0            | 10.34                   | H                    | 7.88                          | 0.85            | 17.37                | 33.01       |
| 1880            | 1.4      | 16-QAM     | 1/0            | 9.91                    | H                    | 7.88                          | 0.85            | 16.94                | 33.01       |
| 1909.3          | 1.4      | 16-QAM     | 1/0            | 10.88                   | H                    | 7.88                          | 0.85            | 17.91                | 33.01       |
| 1851.5          | 3        | QPSK       | 1/0            | 13.48                   | V                    | 7.88                          | 0.85            | 20.51                | 33.01       |
| 1880            | 3        | QPSK       | 1/0            | 13.87                   | V                    | 7.88                          | 0.85            | 20.9                 | 33.01       |
| 1908.5          | 3        | QPSK       | 1/0            | 13.94                   | V                    | 7.88                          | 0.85            | 20.97                | 33.01       |
| 1851.5          | 3        | QPSK       | 1/0            | 11.03                   | H                    | 7.88                          | 0.85            | 18.06                | 33.01       |
| 1880            | 3        | QPSK       | 1/0            | 11.85                   | H                    | 7.88                          | 0.85            | 18.88                | 33.01       |
| 1908.5          | 3        | QPSK       | 1/0            | 12.33                   | H                    | 7.88                          | 0.85            | 19.36                | 33.01       |
| 1851.5          | 3        | 16-QAM     | 1/0            | 13.21                   | V                    | 7.88                          | 0.85            | 20.24                | 33.01       |
| 1880            | 3        | 16-QAM     | 1/0            | 12.68                   | V                    | 7.88                          | 0.85            | 19.71                | 33.01       |
| 1908.5          | 3        | 16-QAM     | 1/0            | 12.84                   | V                    | 7.88                          | 0.85            | 19.87                | 33.01       |
| 1851.5          | 3        | 16-QAM     | 1/0            | 11.54                   | H                    | 7.88                          | 0.85            | 18.57                | 33.01       |
| 1880            | 3        | 16-QAM     | 1/0            | 11.07                   | H                    | 7.88                          | 0.85            | 18.1                 | 33.01       |
| 1908.5          | 3        | 16-QAM     | 1/0            | 10.99                   | H                    | 7.88                          | 0.85            | 18.02                | 33.01       |
| 1852.5          | 5        | QPSK       | 1/24           | 13.66                   | V                    | 7.88                          | 0.85            | 20.69                | 33.01       |
| 1880            | 5        | QPSK       | 1/0            | 11.96                   | V                    | 7.88                          | 0.85            | 18.99                | 33.01       |
| 1907.5          | 5        | QPSK       | 1/24           | 13.76                   | V                    | 7.88                          | 0.85            | 20.79                | 33.01       |
| 1852.5          | 5        | QPSK       | 1/24           | 12.51                   | H                    | 7.88                          | 0.85            | 19.54                | 33.01       |
| 1880            | 5        | QPSK       | 1/0            | 10.05                   | H                    | 7.88                          | 0.85            | 17.08                | 33.01       |
| 1907.5          | 5        | QPSK       | 1/24           | 11.88                   | H                    | 7.88                          | 0.85            | 18.91                | 33.01       |
| 1852.5          | 5        | 16-QAM     | 1/24           | 12.65                   | V                    | 7.88                          | 0.85            | 19.68                | 33.01       |

|        |    |        |      |       |   |      |      |       |       |
|--------|----|--------|------|-------|---|------|------|-------|-------|
| 1880   | 5  | 16-QAM | 1/0  | 11.96 | V | 7.88 | 0.85 | 18.99 | 33.01 |
| 1907.5 | 5  | 16-QAM | 1/24 | 12.67 | V | 7.88 | 0.85 | 19.7  | 33.01 |
| 1852.5 | 5  | 16-QAM | 1/24 | 10.29 | H | 7.88 | 0.85 | 17.32 | 33.01 |
| 1880   | 5  | 16-QAM | 1/0  | 10.42 | H | 7.88 | 0.85 | 17.45 | 33.01 |
| 1907.5 | 5  | 16-QAM | 1/24 | 11.57 | H | 7.88 | 0.85 | 18.6  | 33.01 |
| 1855   | 10 | QPSK   | 1/0  | 13.48 | V | 7.88 | 0.85 | 20.51 | 33.01 |
| 1880   | 10 | QPSK   | 1/0  | 13.89 | V | 7.88 | 0.85 | 20.92 | 33.01 |
| 1905   | 10 | QPSK   | 1/49 | 13.87 | V | 7.88 | 0.85 | 20.9  | 33.01 |
| 1855   | 10 | QPSK   | 1/0  | 11.08 | H | 7.88 | 0.85 | 18.11 | 33.01 |
| 1880   | 10 | QPSK   | 1/0  | 12.71 | H | 7.88 | 0.85 | 19.74 | 33.01 |
| 1905   | 10 | QPSK   | 1/49 | 12.13 | H | 7.88 | 0.85 | 19.16 | 33.01 |
| 1855   | 10 | 16-QAM | 1/0  | 13.23 | V | 7.88 | 0.85 | 20.26 | 33.01 |
| 1880   | 10 | 16-QAM | 1/0  | 12.66 | V | 7.88 | 0.85 | 19.69 | 33.01 |
| 1905   | 10 | 16-QAM | 1/49 | 12.83 | V | 7.88 | 0.85 | 19.86 | 33.01 |
| 1855   | 10 | 16-QAM | 1/0  | 11.87 | H | 7.88 | 0.85 | 18.9  | 33.01 |
| 1880   | 10 | 16-QAM | 1/0  | 11.27 | H | 7.88 | 0.85 | 18.3  | 33.01 |
| 1905   | 10 | 16-QAM | 1/49 | 11.45 | H | 7.88 | 0.85 | 18.48 | 33.01 |
| 1857.5 | 15 | QPSK   | 1/0  | 13.42 | V | 7.88 | 0.85 | 20.45 | 33.01 |
| 1880   | 15 | QPSK   | 1/0  | 13.78 | V | 7.88 | 0.85 | 20.81 | 33.01 |
| 1902.5 | 15 | QPSK   | 1/0  | 13.78 | V | 7.88 | 0.85 | 20.81 | 33.01 |
| 1857.5 | 15 | QPSK   | 1/0  | 11.88 | H | 7.88 | 0.85 | 18.91 | 33.01 |
| 1880   | 15 | QPSK   | 1/0  | 11.77 | H | 7.88 | 0.85 | 18.8  | 33.01 |
| 1902.5 | 15 | QPSK   | 1/0  | 11.36 | H | 7.88 | 0.85 | 18.39 | 33.01 |
| 1857.5 | 15 | 16-QAM | 1/0  | 13.16 | V | 7.88 | 0.85 | 20.19 | 33.01 |
| 1880   | 15 | 16-QAM | 1/0  | 12.58 | V | 7.88 | 0.85 | 19.61 | 33.01 |
| 1902.5 | 15 | 16-QAM | 1/0  | 12.88 | V | 7.88 | 0.85 | 19.91 | 33.01 |
| 1857.5 | 15 | 16-QAM | 1/0  | 11.11 | H | 7.88 | 0.85 | 18.14 | 33.01 |
| 1880   | 15 | 16-QAM | 1/0  | 10.86 | H | 7.88 | 0.85 | 17.89 | 33.01 |
| 1902.5 | 15 | 16-QAM | 1/0  | 10.55 | H | 7.88 | 0.85 | 17.58 | 33.01 |
| 1860   | 20 | QPSK   | 1/0  | 13.84 | V | 7.88 | 0.85 | 20.87 | 33.01 |
| 1880   | 20 | QPSK   | 1/0  | 13.58 | V | 7.88 | 0.85 | 20.61 | 33.01 |
| 1900   | 20 | QPSK   | 1/0  | 13.44 | V | 7.88 | 0.85 | 20.47 | 33.01 |
| 1860   | 20 | QPSK   | 1/0  | 12.45 | H | 7.88 | 0.85 | 19.48 | 33.01 |
| 1880   | 20 | QPSK   | 1/0  | 12.35 | H | 7.88 | 0.85 | 19.38 | 33.01 |
| 1900   | 20 | QPSK   | 1/0  | 11.33 | H | 7.88 | 0.85 | 18.36 | 33.01 |

|      |    |        |     |       |   |      |      |       |       |
|------|----|--------|-----|-------|---|------|------|-------|-------|
| 1860 | 20 | 16-QAM | 1/0 | 12.86 | V | 7.88 | 0.85 | 19.89 | 33.01 |
| 1880 | 20 | 16-QAM | 1/0 | 12.48 | V | 7.88 | 0.85 | 19.51 | 33.01 |
| 1900 | 20 | 16-QAM | 1/0 | 12.82 | V | 7.88 | 0.85 | 19.85 | 33.01 |
| 1860 | 20 | 16-QAM | 1/0 | 11.27 | H | 7.88 | 0.85 | 18.3  | 33.01 |
| 1880 | 20 | 16-QAM | 1/0 | 10.35 | H | 7.88 | 0.85 | 17.38 | 33.01 |
| 1900 | 20 | 16-QAM | 1/0 | 10.37 | H | 7.88 | 0.85 | 17.4  | 33.01 |

### EIRP for LTE Band IV (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 1710.7          | 1.4      | QPSK       | 1/0            | 11.72                   | V                    | 7.95                          | 0.79            | 18.88                | 30          |
| 1732.5          | 1.4      | QPSK       | 1/0            | 11.72                   | V                    | 7.95                          | 0.79            | 18.88                | 30          |
| 1754.3          | 1.4      | QPSK       | 1/0            | 11.68                   | V                    | 7.95                          | 0.79            | 18.84                | 30          |
| 1710.7          | 1.4      | QPSK       | 1/0            | 9.39                    | H                    | 7.95                          | 0.79            | 16.55                | 30          |
| 1732.5          | 1.4      | QPSK       | 1/0            | 10.4                    | H                    | 7.95                          | 0.79            | 17.56                | 30          |
| 1754.3          | 1.4      | QPSK       | 1/0            | 9.45                    | H                    | 7.95                          | 0.79            | 16.61                | 30          |
| 1710.7          | 1.4      | 16-QAM     | 1/5            | 10.74                   | V                    | 7.95                          | 0.79            | 17.9                 | 30          |
| 1732.5          | 1.4      | 16-QAM     | 1/0            | 10.65                   | V                    | 7.95                          | 0.79            | 17.81                | 30          |
| 1754.3          | 1.4      | 16-QAM     | 1/0            | 11.35                   | V                    | 7.95                          | 0.79            | 18.51                | 30          |
| 1710.7          | 1.4      | 16-QAM     | 1/5            | 9.69                    | H                    | 7.95                          | 0.79            | 16.85                | 30          |
| 1732.5          | 1.4      | 16-QAM     | 1/0            | 8.28                    | H                    | 7.95                          | 0.79            | 15.44                | 30          |
| 1754.3          | 1.4      | 16-QAM     | 1/0            | 9.39                    | H                    | 7.95                          | 0.79            | 16.55                | 30          |
| 1711.5          | 3        | QPSK       | 1/0            | 11.68                   | V                    | 7.95                          | 0.79            | 18.84                | 30          |
| 1732.5          | 3        | QPSK       | 1/0            | 11.72                   | V                    | 7.95                          | 0.79            | 18.88                | 30          |
| 1753.5          | 3        | QPSK       | 1/0            | 11.78                   | V                    | 7.95                          | 0.79            | 18.94                | 30          |
| 1711.5          | 3        | QPSK       | 1/0            | 9.85                    | H                    | 7.95                          | 0.79            | 17.01                | 30          |
| 1732.5          | 3        | QPSK       | 1/0            | 9.67                    | H                    | 7.95                          | 0.79            | 16.83                | 30          |
| 1753.5          | 3        | QPSK       | 1/0            | 10.53                   | H                    | 7.95                          | 0.79            | 17.69                | 30          |
| 1711.5          | 3        | 16-QAM     | 1/0            | 11.35                   | V                    | 7.95                          | 0.79            | 18.51                | 30          |
| 1732.5          | 3        | 16-QAM     | 1/0            | 10.55                   | V                    | 7.95                          | 0.79            | 17.71                | 30          |
| 1753.5          | 3        | 16-QAM     | 1/0            | 10.76                   | V                    | 7.95                          | 0.79            | 17.92                | 30          |
| 1711.5          | 3        | 16-QAM     | 1/0            | 10.16                   | H                    | 7.95                          | 0.79            | 17.32                | 30          |
| 1732.5          | 3        | 16-QAM     | 1/0            | 8.48                    | H                    | 7.95                          | 0.79            | 15.64                | 30          |
| 1753.5          | 3        | 16-QAM     | 1/0            | 8.76                    | H                    | 7.95                          | 0.79            | 15.92                | 30          |
| 1712.5          | 5        | QPSK       | 1/0            | 11.7                    | V                    | 7.95                          | 0.79            | 18.86                | 30          |
| 1732.5          | 5        | QPSK       | 1/0            | 11.58                   | V                    | 7.95                          | 0.79            | 18.74                | 30          |
| 1752.5          | 5        | QPSK       | 1/24           | 11.55                   | V                    | 7.95                          | 0.79            | 18.71                | 30          |
| 1712.5          | 5        | QPSK       | 1/0            | 10.44                   | H                    | 7.95                          | 0.79            | 17.6                 | 30          |
| 1732.5          | 5        | QPSK       | 1/0            | 9.44                    | H                    | 7.95                          | 0.79            | 16.6                 | 30          |
| 1752.5          | 5        | QPSK       | 1/24           | 9.98                    | H                    | 7.95                          | 0.79            | 17.14                | 30          |
| 1712.5          | 5        | 16-QAM     | 1/0            | 10.7                    | V                    | 7.95                          | 0.79            | 17.86                | 30          |
| 1732.5          | 5        | 16-QAM     | 1/0            | 11.04                   | V                    | 7.95                          | 0.79            | 18.2                 | 30          |

|        |    |        |      |       |   |      |      |       |    |
|--------|----|--------|------|-------|---|------|------|-------|----|
| 1752.5 | 5  | 16-QAM | 1/24 | 10.68 | V | 7.95 | 0.79 | 17.84 | 30 |
| 1712.5 | 5  | 16-QAM | 1/0  | 8.49  | H | 7.95 | 0.79 | 15.65 | 30 |
| 1732.5 | 5  | 16-QAM | 1/0  | 9.6   | H | 7.95 | 0.79 | 16.76 | 30 |
| 1752.5 | 5  | 16-QAM | 1/24 | 9.38  | H | 7.95 | 0.79 | 16.54 | 30 |
| 1715   | 10 | QPSK   | 1/0  | 11.66 | V | 7.95 | 0.79 | 18.82 | 30 |
| 1732.5 | 10 | QPSK   | 1/49 | 11.78 | V | 7.95 | 0.79 | 18.94 | 30 |
| 1750   | 10 | QPSK   | 1/0  | 11.73 | V | 7.95 | 0.79 | 18.89 | 30 |
| 1715   | 10 | QPSK   | 1/0  | 9.47  | H | 7.95 | 0.79 | 16.63 | 30 |
| 1732.5 | 10 | QPSK   | 1/49 | 10.63 | H | 7.95 | 0.79 | 17.79 | 30 |
| 1750   | 10 | QPSK   | 1/0  | 9.52  | H | 7.95 | 0.79 | 16.68 | 30 |
| 1715   | 10 | 16-QAM | 1/0  | 11.38 | V | 7.95 | 0.79 | 18.54 | 30 |
| 1732.5 | 10 | 16-QAM | 1/49 | 10.59 | V | 7.95 | 0.79 | 17.75 | 30 |
| 1750   | 10 | 16-QAM | 1/0  | 10.72 | V | 7.95 | 0.79 | 17.88 | 30 |
| 1715   | 10 | 16-QAM | 1/0  | 9.69  | H | 7.95 | 0.79 | 16.85 | 30 |
| 1732.5 | 10 | 16-QAM | 1/49 | 8.11  | H | 7.95 | 0.79 | 15.27 | 30 |
| 1750   | 10 | 16-QAM | 1/0  | 8.36  | H | 7.95 | 0.79 | 15.52 | 30 |
| 1717.5 | 15 | QPSK   | 1/0  | 11.56 | V | 7.95 | 0.79 | 18.72 | 30 |
| 1732.5 | 15 | QPSK   | 1/74 | 11.57 | V | 7.95 | 0.79 | 18.73 | 30 |
| 1747.5 | 15 | QPSK   | 1/0  | 11.53 | V | 7.95 | 0.79 | 18.69 | 30 |
| 1717.5 | 15 | QPSK   | 1/0  | 10.53 | H | 7.95 | 0.79 | 17.69 | 30 |
| 1732.5 | 15 | QPSK   | 1/74 | 9.91  | H | 7.95 | 0.79 | 17.07 | 30 |
| 1747.5 | 15 | QPSK   | 1/0  | 10.04 | H | 7.95 | 0.79 | 17.2  | 30 |
| 1717.5 | 15 | 16-QAM | 1/0  | 11.25 | V | 7.95 | 0.79 | 18.41 | 30 |
| 1732.5 | 15 | 16-QAM | 1/74 | 10.49 | V | 7.95 | 0.79 | 17.65 | 30 |
| 1747.5 | 15 | 16-QAM | 1/0  | 10.93 | V | 7.95 | 0.79 | 18.09 | 30 |
| 1717.5 | 15 | 16-QAM | 1/0  | 9.71  | H | 7.95 | 0.79 | 16.87 | 30 |
| 1732.5 | 15 | 16-QAM | 1/74 | 8.91  | H | 7.95 | 0.79 | 16.07 | 30 |
| 1747.5 | 15 | 16-QAM | 1/0  | 9.74  | H | 7.95 | 0.79 | 16.9  | 30 |
| 1720   | 20 | QPSK   | 1/99 | 11.55 | V | 7.95 | 0.79 | 18.71 | 30 |
| 1732.5 | 20 | QPSK   | 1/99 | 11.41 | V | 7.95 | 0.79 | 18.57 | 30 |
| 1745   | 20 | QPSK   | 1/0  | 11.3  | V | 7.95 | 0.79 | 18.46 | 30 |
| 1720   | 20 | QPSK   | 1/99 | 9.41  | H | 7.95 | 0.79 | 16.57 | 30 |
| 1732.5 | 20 | QPSK   | 1/99 | 10.09 | H | 7.95 | 0.79 | 17.25 | 30 |
| 1745   | 20 | QPSK   | 1/0  | 9.58  | H | 7.95 | 0.79 | 16.74 | 30 |
| 1720   | 20 | 16-QAM | 1/99 | 10.94 | V | 7.95 | 0.79 | 18.1  | 30 |

|        |    |        |      |       |   |      |      |       |    |
|--------|----|--------|------|-------|---|------|------|-------|----|
| 1732.5 | 20 | 16-QAM | 1/99 | 10.52 | V | 7.95 | 0.79 | 17.68 | 30 |
| 1745   | 20 | 16-QAM | 1/0  | 10.68 | V | 7.95 | 0.79 | 17.84 | 30 |
| 1720   | 20 | 16-QAM | 1/99 | 9.04  | H | 7.95 | 0.79 | 16.2  | 30 |
| 1732.5 | 20 | 16-QAM | 1/99 | 8.98  | H | 7.95 | 0.79 | 16.14 | 30 |
| 1745   | 20 | 16-QAM | 1/0  | 8.57  | H | 7.95 | 0.79 | 15.73 | 30 |

### ERP for LTE Band VII (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 2502.5          | 5        | QPSK       | 1/0            | 12.53                   | V                    | 8.93                          | 0.83            | 20.63                | 30          |
| 2535            | 5        | QPSK       | 1/0            | 12.75                   | V                    | 8.93                          | 0.83            | 20.85                | 30          |
| 2567.5          | 5        | QPSK       | 1/24           | 12.85                   | V                    | 8.93                          | 0.83            | 20.95                | 30          |
| 2502.5          | 5        | QPSK       | 1/0            | 10.19                   | H                    | 8.93                          | 0.83            | 18.29                | 30          |
| 2535            | 5        | QPSK       | 1/0            | 10.82                   | H                    | 8.93                          | 0.83            | 18.92                | 30          |
| 2567.5          | 5        | QPSK       | 1/24           | 10.72                   | H                    | 8.93                          | 0.83            | 18.82                | 30          |
| 2502.5          | 5        | 16-QAM     | 1/0            | 11.93                   | V                    | 8.93                          | 0.83            | 20.03                | 30          |
| 2535            | 5        | 16-QAM     | 1/0            | 12.16                   | V                    | 8.93                          | 0.83            | 20.26                | 30          |
| 2567.5          | 5        | 16-QAM     | 1/24           | 12.3                    | V                    | 8.93                          | 0.83            | 20.4                 | 30          |
| 2502.5          | 5        | 16-QAM     | 1/0            | 10.56                   | H                    | 8.93                          | 0.83            | 18.66                | 30          |
| 2535            | 5        | 16-QAM     | 1/0            | 10.59                   | H                    | 8.93                          | 0.83            | 18.69                | 30          |
| 2567.5          | 5        | 16-QAM     | 1/24           | 10.56                   | H                    | 8.93                          | 0.83            | 18.66                | 30          |
| 2505            | 10       | QPSK       | 1/0            | 12.58                   | V                    | 8.93                          | 0.83            | 20.68                | 30          |
| 2535            | 10       | QPSK       | 1/49           | 12.81                   | V                    | 8.93                          | 0.83            | 20.91                | 30          |
| 2565            | 10       | QPSK       | 1/0            | 13.01                   | V                    | 8.93                          | 0.83            | 21.11                | 30          |
| 2505            | 10       | QPSK       | 1/0            | 10.8                    | H                    | 8.93                          | 0.83            | 18.9                 | 30          |
| 2535            | 10       | QPSK       | 1/49           | 10.64                   | H                    | 8.93                          | 0.83            | 18.74                | 30          |
| 2565            | 10       | QPSK       | 1/0            | 11.59                   | H                    | 8.93                          | 0.83            | 19.69                | 30          |
| 2505            | 10       | 16-QAM     | 1/0            | 12.2                    | V                    | 8.93                          | 0.83            | 20.3                 | 30          |
| 2535            | 10       | 16-QAM     | 1/49           | 12.02                   | V                    | 8.93                          | 0.83            | 20.12                | 30          |
| 2565            | 10       | 16-QAM     | 1/0            | 12.02                   | V                    | 8.93                          | 0.83            | 20.12                | 30          |
| 2505            | 10       | 16-QAM     | 1/0            | 11.17                   | H                    | 8.93                          | 0.83            | 19.27                | 30          |
| 2535            | 10       | 16-QAM     | 1/49           | 10.45                   | H                    | 8.93                          | 0.83            | 18.55                | 30          |
| 2565            | 10       | 16-QAM     | 1/0            | 10.45                   | H                    | 8.93                          | 0.83            | 18.55                | 30          |
| 2507.5          | 15       | QPSK       | 1/0            | 12.58                   | V                    | 8.93                          | 0.83            | 20.68                | 30          |
| 2535            | 15       | QPSK       | 1/74           | 12.93                   | V                    | 8.93                          | 0.83            | 21.03                | 30          |
| 2562.5          | 15       | QPSK       | 1/0            | 12.91                   | V                    | 8.93                          | 0.83            | 21.01                | 30          |
| 2507.5          | 15       | QPSK       | 1/0            | 10.73                   | H                    | 8.93                          | 0.83            | 18.83                | 30          |
| 2535            | 15       | QPSK       | 1/74           | 11.36                   | H                    | 8.93                          | 0.83            | 19.46                | 30          |
| 2562.5          | 15       | QPSK       | 1/0            | 10.9                    | H                    | 8.93                          | 0.83            | 19                   | 30          |
| 2507.5          | 15       | 16-QAM     | 1/0            | 12.16                   | V                    | 8.93                          | 0.83            | 20.26                | 30          |
| 2535            | 15       | 16-QAM     | 1/74           | 12.14                   | V                    | 8.93                          | 0.83            | 20.24                | 30          |

|        |    |        |      |       |   |      |      |       |    |
|--------|----|--------|------|-------|---|------|------|-------|----|
| 2562.5 | 15 | 16-QAM | 1/0  | 12.02 | V | 8.93 | 0.83 | 20.12 | 30 |
| 2507.5 | 15 | 16-QAM | 1/0  | 10.18 | H | 8.93 | 0.83 | 18.28 | 30 |
| 2535   | 15 | 16-QAM | 1/74 | 9.91  | H | 8.93 | 0.83 | 18.01 | 30 |
| 2562.5 | 15 | 16-QAM | 1/0  | 10.13 | H | 8.93 | 0.83 | 18.23 | 30 |
| 2510   | 20 | QPSK   | 1/99 | 12.5  | V | 8.93 | 0.83 | 20.6  | 30 |
| 2535   | 20 | QPSK   | 1/99 | 12.58 | V | 8.93 | 0.83 | 20.68 | 30 |
| 2560   | 20 | QPSK   | 1/0  | 12.63 | V | 8.93 | 0.83 | 20.73 | 30 |
| 2510   | 20 | QPSK   | 1/99 | 10.09 | H | 8.93 | 0.83 | 18.19 | 30 |
| 2535   | 20 | QPSK   | 1/99 | 11.41 | H | 8.93 | 0.83 | 19.51 | 30 |
| 2560   | 20 | QPSK   | 1/0  | 10.61 | H | 8.93 | 0.83 | 18.71 | 30 |
| 2510   | 20 | 16-QAM | 1/99 | 12.04 | V | 8.93 | 0.83 | 20.14 | 30 |
| 2535   | 20 | 16-QAM | 1/99 | 12.01 | V | 8.93 | 0.83 | 20.11 | 30 |
| 2560   | 20 | 16-QAM | 1/0  | 11.93 | V | 8.93 | 0.83 | 20.03 | 30 |
| 2510   | 20 | 16-QAM | 1/99 | 10.48 | H | 8.93 | 0.83 | 18.58 | 30 |
| 2535   | 20 | 16-QAM | 1/99 | 10.45 | H | 8.93 | 0.83 | 18.55 | 30 |
| 2560   | 20 | 16-QAM | 1/0  | 9.98  | H | 8.93 | 0.83 | 18.08 | 30 |

### ERP for LTE Band XII (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 699.7           | 1.4      | QPSK       | 1/5            | 11.01                   | V                    | 6.9                           | 0.42            | 17.49                | 34.77       |
| 707.5           | 1.4      | QPSK       | 1/5            | 13.81                   | V                    | 6.8                           | 0.42            | 20.19                | 34.77       |
| 715.3           | 1.4      | QPSK       | 1/5            | 13.62                   | V                    | 6.8                           | 0.42            | 20                   | 34.77       |
| 699.7           | 1.4      | QPSK       | 1/5            | 8.54                    | H                    | 6.9                           | 0.42            | 15.02                | 34.77       |
| 707.5           | 1.4      | QPSK       | 1/5            | 12.3                    | H                    | 6.8                           | 0.42            | 18.68                | 34.77       |
| 715.3           | 1.4      | QPSK       | 1/5            | 11.77                   | H                    | 6.8                           | 0.42            | 18.15                | 34.77       |
| 699.7           | 1.4      | 16-QAM     | 1/5            | 9.61                    | V                    | 6.9                           | 0.42            | 16.09                | 34.77       |
| 707.5           | 1.4      | 16-QAM     | 1/5            | 12.49                   | V                    | 6.8                           | 0.42            | 18.87                | 34.77       |
| 715.3           | 1.4      | 16-QAM     | 1/5            | 12.5                    | V                    | 6.8                           | 0.42            | 18.88                | 34.77       |
| 699.7           | 1.4      | 16-QAM     | 1/5            | 7.99                    | H                    | 6.9                           | 0.42            | 14.47                | 34.77       |
| 707.5           | 1.4      | 16-QAM     | 1/5            | 10.4                    | H                    | 6.8                           | 0.42            | 16.78                | 34.77       |
| 715.3           | 1.4      | 16-QAM     | 1/5            | 11.14                   | H                    | 6.8                           | 0.42            | 17.52                | 34.77       |
| 700.5           | 3        | QPSK       | 1/14           | 11.07                   | V                    | 6.9                           | 0.42            | 17.55                | 34.77       |
| 707.5           | 3        | QPSK       | 1/0            | 13.93                   | V                    | 6.8                           | 0.42            | 20.31                | 34.77       |
| 714.5           | 3        | QPSK       | 1/14           | 13.8                    | V                    | 6.8                           | 0.42            | 20.18                | 34.77       |
| 700.5           | 3        | QPSK       | 1/14           | 9.83                    | H                    | 6.9                           | 0.42            | 16.31                | 34.77       |
| 707.5           | 3        | QPSK       | 1/0            | 11.88                   | H                    | 6.8                           | 0.42            | 18.26                | 34.77       |
| 714.5           | 3        | QPSK       | 1/14           | 12.1                    | H                    | 6.8                           | 0.42            | 18.48                | 34.77       |
| 700.5           | 3        | 16-QAM     | 1/14           | 10.8                    | V                    | 6.9                           | 0.42            | 17.28                | 34.77       |
| 707.5           | 3        | 16-QAM     | 1/0            | 12.72                   | V                    | 6.8                           | 0.42            | 19.1                 | 34.77       |
| 714.5           | 3        | 16-QAM     | 1/14           | 12.9                    | V                    | 6.8                           | 0.42            | 19.28                | 34.77       |
| 700.5           | 3        | 16-QAM     | 1/14           | 9.08                    | H                    | 6.9                           | 0.42            | 15.56                | 34.77       |
| 707.5           | 3        | 16-QAM     | 1/0            | 11.07                   | H                    | 6.8                           | 0.42            | 17.45                | 34.77       |
| 714.5           | 3        | 16-QAM     | 1/14           | 10.4                    | H                    | 6.8                           | 0.42            | 16.78                | 34.77       |
| 701.5           | 5        | QPSK       | 1/24           | 11.31                   | V                    | 6.9                           | 0.42            | 17.79                | 34.77       |
| 707.5           | 5        | QPSK       | 1/24           | 13.77                   | V                    | 6.8                           | 0.42            | 20.15                | 34.77       |
| 713.5           | 5        | QPSK       | 1/24           | 13.71                   | V                    | 6.8                           | 0.42            | 20.09                | 34.77       |
| 701.5           | 5        | QPSK       | 1/24           | 9.43                    | H                    | 6.9                           | 0.42            | 15.91                | 34.77       |
| 707.5           | 5        | QPSK       | 1/24           | 12.77                   | H                    | 6.8                           | 0.42            | 19.15                | 34.77       |
| 713.5           | 5        | QPSK       | 1/24           | 11.35                   | H                    | 6.8                           | 0.42            | 17.73                | 34.77       |
| 701.5           | 5        | 16-QAM     | 1/24           | 10.21                   | V                    | 6.9                           | 0.42            | 16.69                | 34.77       |

|       |    |        |      |       |   |     |      |       |       |
|-------|----|--------|------|-------|---|-----|------|-------|-------|
| 707.5 | 5  | 16-QAM | 1/24 | 13.11 | V | 6.8 | 0.42 | 19.49 | 34.77 |
| 713.5 | 5  | 16-QAM | 1/24 | 12.73 | V | 6.8 | 0.42 | 19.11 | 34.77 |
| 701.5 | 5  | 16-QAM | 1/24 | 7.84  | H | 6.9 | 0.42 | 14.32 | 34.77 |
| 707.5 | 5  | 16-QAM | 1/24 | 10.85 | H | 6.8 | 0.42 | 17.23 | 34.77 |
| 713.5 | 5  | 16-QAM | 1/24 | 10.32 | H | 6.8 | 0.42 | 16.7  | 34.77 |
| 704   | 10 | QPSK   | 1/49 | 11.21 | V | 6.8 | 0.42 | 17.59 | 34.77 |
| 707.5 | 10 | QPSK   | 1/49 | 13.99 | V | 6.8 | 0.42 | 20.37 | 34.77 |
| 711   | 10 | QPSK   | 1/49 | 13.86 | V | 6.8 | 0.42 | 20.24 | 34.77 |
| 704   | 10 | QPSK   | 1/49 | 9.77  | H | 6.8 | 0.42 | 16.15 | 34.77 |
| 707.5 | 10 | QPSK   | 1/49 | 11.82 | H | 6.8 | 0.42 | 18.2  | 34.77 |
| 711   | 10 | QPSK   | 1/49 | 11.77 | H | 6.8 | 0.42 | 18.15 | 34.77 |
| 704   | 10 | 16-QAM | 1/49 | 10.99 | V | 6.8 | 0.42 | 17.37 | 34.77 |
| 707.5 | 10 | 16-QAM | 1/49 | 12.74 | V | 6.8 | 0.42 | 19.12 | 34.77 |
| 711   | 10 | 16-QAM | 1/49 | 12.77 | V | 6.8 | 0.42 | 19.15 | 34.77 |
| 704   | 10 | 16-QAM | 1/49 | 9.05  | H | 6.8 | 0.42 | 15.43 | 34.77 |
| 707.5 | 10 | 16-QAM | 1/49 | 10.92 | H | 6.8 | 0.42 | 17.3  | 34.77 |
| 711   | 10 | 16-QAM | 1/49 | 11.42 | H | 6.8 | 0.42 | 17.8  | 34.77 |

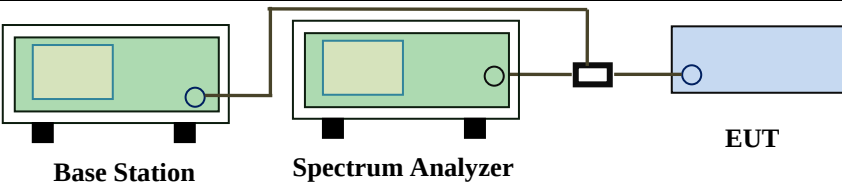
### ERP for LTE Band XVII (Part 27)

| Frequency (MHz) | BW (MHz) | Modulation | RB Size/Offset | Substituted level (dBm) | Antenna Polarization | Antenna Gain correction (dBi) | Cable Loss (dB) | Absolute Level (dBm) | Limit (dBm) |
|-----------------|----------|------------|----------------|-------------------------|----------------------|-------------------------------|-----------------|----------------------|-------------|
| 706.5           | 5        | QPSK       | 1/0            | 10.53                   | V                    | 6.8                           | 0.42            | 16.91                | 34.77       |
| 710             | 5        | QPSK       | 1/0            | 13.91                   | V                    | 6.8                           | 0.42            | 20.29                | 34.77       |
| 713.5           | 5        | QPSK       | 1/0            | 13.88                   | V                    | 6.8                           | 0.42            | 20.26                | 34.77       |
| 706.5           | 5        | QPSK       | 1/0            | 8.26                    | H                    | 6.8                           | 0.42            | 14.64                | 34.77       |
| 710             | 5        | QPSK       | 1/0            | 12.33                   | H                    | 6.8                           | 0.42            | 18.71                | 34.77       |
| 713.5           | 5        | QPSK       | 1/0            | 12.19                   | H                    | 6.8                           | 0.42            | 18.57                | 34.77       |
| 706.5           | 5        | 16-QAM     | 1/0            | 10.09                   | V                    | 6.8                           | 0.42            | 16.47                | 34.77       |
| 710             | 5        | 16-QAM     | 1/0            | 12.67                   | V                    | 6.8                           | 0.42            | 19.05                | 34.77       |
| 713.5           | 5        | 16-QAM     | 1/0            | 12.77                   | V                    | 6.8                           | 0.42            | 19.15                | 34.77       |
| 706.5           | 5        | 16-QAM     | 1/0            | 7.71                    | H                    | 6.8                           | 0.42            | 14.09                | 34.77       |
| 710             | 5        | 16-QAM     | 1/0            | 11.38                   | H                    | 6.8                           | 0.42            | 17.76                | 34.77       |
| 713.5           | 5        | 16-QAM     | 1/0            | 11.73                   | H                    | 6.8                           | 0.42            | 18.11                | 34.77       |
| 709             | 10       | QPSK       | 1/0            | 10.48                   | V                    | 6.8                           | 0.42            | 16.86                | 34.77       |
| 710             | 10       | QPSK       | 1/0            | 13.73                   | V                    | 6.8                           | 0.42            | 20.11                | 34.77       |
| 711             | 10       | QPSK       | 1/0            | 13.76                   | V                    | 6.8                           | 0.42            | 20.14                | 34.77       |
| 709             | 10       | QPSK       | 1/0            | 8.33                    | H                    | 6.8                           | 0.42            | 14.71                | 34.77       |
| 710             | 10       | QPSK       | 1/0            | 11.78                   | H                    | 6.8                           | 0.42            | 18.16                | 34.77       |
| 711             | 10       | QPSK       | 1/0            | 12.38                   | H                    | 6.8                           | 0.42            | 18.76                | 34.77       |
| 709             | 10       | 16-QAM     | 1/0            | 9.5                     | V                    | 6.8                           | 0.42            | 15.88                | 34.77       |
| 710             | 10       | 16-QAM     | 1/0            | 12.71                   | V                    | 6.8                           | 0.42            | 19.09                | 34.77       |
| 711             | 10       | 16-QAM     | 1/0            | 12.77                   | V                    | 6.8                           | 0.42            | 19.15                | 34.77       |
| 709             | 10       | 16-QAM     | 1/0            | 7.4                     | H                    | 6.8                           | 0.42            | 13.78                | 34.77       |
| 710             | 10       | 16-QAM     | 1/0            | 11.1                    | H                    | 6.8                           | 0.42            | 17.48                | 34.77       |
| 711             | 10       | 16-QAM     | 1/0            | 11.02                   | H                    | 6.8                           | 0.42            | 17.4                 | 34.77       |

### 6.3 Peak-Average Ratio

|                      |                  |
|----------------------|------------------|
| Temperature          | 23 °C            |
| Relative Humidity    | 55%              |
| Atmospheric Pressure | 1012mbar         |
| Test date :          | January 04, 2018 |
| Tested By :          | Aaron Liang      |

Requirement(s):

| Spec                     | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Requirement                                                               | Applicable                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------|
| §24.232(d)<br>§ 27.50(d) | a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. | <input checked="" type="checkbox"/> |
| Test Setup               |  <p style="text-align: center;">Base Station      Spectrum Analyzer      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           |                                     |
| Test Procedure           | <p><b>According with KDB 971168 v02r02</b></p> <p><b>5.7.2 Alternate procedure for PAPR</b></p> <p><b>5.1.2 Peak power measurements with a peak power meter</b></p> <p>The total peak output power may be measured using a broadband peak RF power meter. The power meter must have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.</p> <p><b>5.2.3 Average power measurement with average power meter</b></p> <p>As an alternative to the use of a spectrum/signal analyzer or EMI receiver to perform a measurement of the total in-band average output power, a wideband RF average power meter with a thermocouple detector or equivalent can be used under certain conditions</p> <p>If the EUT can be configured to transmit continuously (i.e., the burst duty cycle <math>\geq 98\%</math>) and at all times the EUT is transmitting at its maximum output</p> |                                                                           |                                     |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | <p>power level, then a conventional wide-band RF power meter can be used. If the EUT cannot be configured to transmit continuously (i.e., the burst duty cycle &lt; 98%), then there are two options for the use of an average power meter. First, a gated average power meter can be used to perform the measurement if the gating parameters can be adjusted such that the power is measured only over active transmission bursts at maximum output power levels. A conventional average power meter can also be used if the measured burst duty cycle is constant (i.e., duty cycle variations are less than <math>\pm 2</math> percent) by performing the measurement over the on/off burst cycles and then correcting (increasing) the measured level by a factor equal to <math>10\log(1/\text{duty cycle})</math></p> |
| Remark |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Result | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Test Data** ☒ Yes ☐ N/A  
**Test Plot** ☐ Yes (See below) ☒ N/A

### LTE Band II (part 24E)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 1880            | RB 1/0 | QPSK       | 25.78                 | 22.63   | 3.15                     |
|         |                 |        | 16QAM      | 25.35                 | 21.52   | 3.83                     |
| 3       | 1880            | RB 1/0 | QPSK       | 25.46                 | 22.62   | 2.84                     |
|         |                 |        | 16QAM      | 25.26                 | 21.41   | 3.85                     |
| 5       | 1880            | RB 1/0 | QPSK       | 25.38                 | 22.74   | 2.64                     |
|         |                 |        | 16QAM      | 25.46                 | 21.63   | 3.83                     |
| 10      | 1880            | RB 1/0 | QPSK       | 25.86                 | 22.62   | 3.24                     |
|         |                 |        | 16QAM      | 24.97                 | 22.16   | 2.81                     |
| 15      | 1880            | RB 1/0 | QPSK       | 25.68                 | 22.75   | 2.93                     |
|         |                 |        | 16QAM      | 25.27                 | 21.59   | 3.68                     |
| 20      | 1880            | RB 1/0 | QPSK       | 25.28                 | 22.81   | 2.47                     |
|         |                 |        | 16QAM      | 25.75                 | 21.73   | 4.02                     |

### LTE Band IV (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 1732.5          | RB 1/0 | QPSK       | 25.35                 | 22.91   | 2.44                     |
|         |                 |        | 16QAM      | 25.26                 | 21.94   | 3.32                     |
| 3       | 1732.5          | RB 1/0 | QPSK       | 25.4                  | 23.23   | 2.17                     |
|         |                 |        | 16QAM      | 25.15                 | 22.04   | 3.11                     |
| 5       | 1732.5          | RB 1/0 | QPSK       | 25.28                 | 23.3    | 1.98                     |
|         |                 |        | 16QAM      | 25.64                 | 22.35   | 3.29                     |
| 10      | 1732.5          | RB 1/0 | QPSK       | 25.38                 | 22.56   | 2.82                     |
|         |                 |        | 16QAM      | 25.84                 | 21.56   | 4.28                     |
| 15      | 1732.5          | RB 1/0 | QPSK       | 25.66                 | 22.81   | 2.85                     |
|         |                 |        | 16QAM      | 25.35                 | 21.73   | 3.62                     |
| 20      | 1732.5          | RB 1/0 | QPSK       | 25.75                 | 23.29   | 2.46                     |
|         |                 |        | 16QAM      | 25.49                 | 22.25   | 3.24                     |

### LTE Band VII (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 5       | 2535            | RB 1/0 | QPSK       | 25.55                 | 22.6    | 2.95                     |
|         |                 |        | 16QAM      | 25.74                 | 21.55   | 4.19                     |
| 10      | 2535            | RB 1/0 | QPSK       | 24.64                 | 22.63   | 2.01                     |
|         |                 |        | 16QAM      | 24.62                 | 21.61   | 3.01                     |
| 15      | 2535            | RB 1/0 | QPSK       | 25.03                 | 22.73   | 2.3                      |
|         |                 |        | 16QAM      | 24.83                 | 22.06   | 2.77                     |
| 20      | 2535            | RB 1/0 | QPSK       | 25.08                 | 22.91   | 2.17                     |
|         |                 |        | 16QAM      | 24.92                 | 22.09   | 2.83                     |

### LTE Band XII (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 1.4     | 2535            | RB 1/0 | QPSK       | 22.32                 | 22.32   | 0                        |
|         |                 |        | 16QAM      | 21.65                 | 21.31   | 0.34                     |
| 3       | 2535            | RB 1/0 | QPSK       | 22.73                 | 22.36   | 0.37                     |
|         |                 |        | 16QAM      | 21.78                 | 21.35   | 0.43                     |
| 5       | 2535            | RB 1/0 | QPSK       | 22.98                 | 22.55   | 0.43                     |
|         |                 |        | 16QAM      | 21.74                 | 21.42   | 0.32                     |
| 10      | 2535            | RB 1/0 | QPSK       | 22.99                 | 22.58   | 0.41                     |
|         |                 |        | 16QAM      | 21.92                 | 21.53   | 0.39                     |

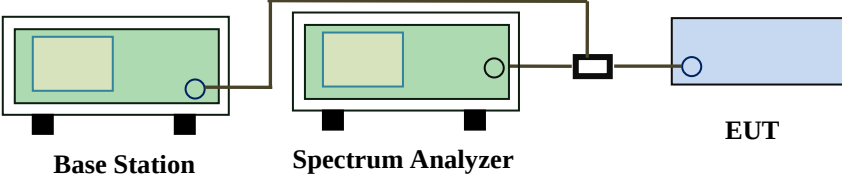
### LTE Band XVII (part 27)

| BW(MHz) | Frequency (MHz) | Mode   | Modulation | Conducted Power (dBm) |         | Peak-Average Ratio (PAR) |
|---------|-----------------|--------|------------|-----------------------|---------|--------------------------|
|         |                 |        |            | Peak                  | Average |                          |
| 5       | 2535            | RB 1/0 | QPSK       | 22.32                 | 22.32   | 0                        |
|         |                 |        | 16QAM      | 21.65                 | 21.31   | 0.34                     |
| 10      | 2535            | RB 1/0 | QPSK       | 22.73                 | 22.36   | 0.37                     |
|         |                 |        | 16QAM      | 21.78                 | 21.35   | 0.43                     |

## 6.4 Occupied Bandwidth

|                      |                  |
|----------------------|------------------|
| Temperature          | 24 °C            |
| Relative Humidity    | 55%              |
| Atmospheric Pressure | 1013mbar         |
| Test date :          | January 05, 2018 |
| Tested By :          | Aaron Liang      |

### Requirement(s):

| Spec                                                    | Item                                                                                                                                                                                                                                     | Requirement                 | Applicable                          |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------|
| §2.1049,<br>§22.917,<br>§22.905<br>§24.238<br>§27.53(a) | a)                                                                                                                                                                                                                                       | 99% Occupied Bandwidth(kHz) | <input checked="" type="checkbox"/> |
|                                                         | b)                                                                                                                                                                                                                                       | 26 dB Bandwidth(kHz)        | <input checked="" type="checkbox"/> |
| Test Setup                                              |                                                                                                                                                      |                             |                                     |
| Test Procedure                                          | <ul style="list-style-type: none"> <li>- The EUT was connected to Spectrum Analyzer and Base Station via power divider.</li> <li>- The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.</li> </ul> |                             |                                     |
| Remark                                                  |                                                                                                                                                                                                                                          |                             |                                     |
| Result                                                  | <input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail                                                                                                                                                                   |                             |                                     |

Test Data    ☒ Yes      ☐ N/A

Test Plot    ☒ Yes (See below)      ☐ N/A

### LTE Band II (Part 24E)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 18607   | 1851            | 16QAM      | 1.1000                       | 1.318                 |
|         |         |                 | QPSK       | 1.0988                       | 1.303                 |
| 1.4     | 18900   | 1880            | 16QAM      | 1.0937                       | 1.288                 |
|         |         |                 | QPSK       | 1.0987                       | 1.293                 |
| 1.4     | 19193   | 1909            | 16QAM      | 1.0958                       | 1.294                 |
|         |         |                 | QPSK       | 1.1037                       | 1.298                 |
| 3       | 18615   | 1852            | 16QAM      | 2.7263                       | 2.981                 |
|         |         |                 | QPSK       | 2.7319                       | 2.995                 |
| 3       | 18900   | 1880            | 16QAM      | 2.7484                       | 3.032                 |
|         |         |                 | QPSK       | 2.7418                       | 3.021                 |
| 3       | 19185   | 1909            | 16QAM      | 2.7398                       | 3.004                 |
|         |         |                 | QPSK       | 2.7424                       | 3.009                 |
| 5       | 18625   | 1853            | 16QAM      | 4.5281                       | 5.121                 |
|         |         |                 | QPSK       | 4.5247                       | 5.118                 |
| 5       | 18900   | 1880            | 16QAM      | 4.5534                       | 5.111                 |
|         |         |                 | QPSK       | 4.5367                       | 5.015                 |
| 5       | 19175   | 1908            | 16QAM      | 4.5353                       | 6.156                 |
|         |         |                 | QPSK       | 4.5382                       | 5.742                 |
| 10      | 18650   | 1855            | 16QAM      | 9.0798                       | 10.16                 |
|         |         |                 | QPSK       | 9.0957                       | 10.40                 |
| 10      | 18900   | 1880            | 16QAM      | 9.0831                       | 10.69                 |
|         |         |                 | QPSK       | 9.0920                       | 10.04                 |
| 10      | 19150   | 1905            | 16QAM      | 9.2366                       | 10.02                 |
|         |         |                 | QPSK       | 9.2333                       | 10.79                 |
| 15      | 18675   | 1858            | 16QAM      | 13.488                       | 14.74                 |
|         |         |                 | QPSK       | 13.510                       | 14.80                 |
| 15      | 18900   | 1880            | 16QAM      | 13.508                       | 16.68                 |
|         |         |                 | QPSK       | 13.534                       | 15.14                 |
| 15      | 19125   | 1903            | 16QAM      | 13.385                       | 14.59                 |
|         |         |                 | QPSK       | 13.424                       | 14.60                 |

|    |       |      |       |        |       |
|----|-------|------|-------|--------|-------|
| 20 | 18700 | 1860 | 16QAM | 17.903 | 19.48 |
|    |       |      | QPSK  | 17.908 | 19.23 |
| 20 | 18900 | 1880 | 16QAM | 17.980 | 19.43 |
|    |       |      | QPSK  | 17.977 | 19.49 |
| 20 | 19100 | 1900 | 16QAM | 17.925 | 19.76 |
|    |       |      | QPSK  | 17.936 | 19.44 |

### LTE Band IV (Part 27)

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 19957   | 1711            | 16QAM      | 1.1004                       | 1.281                 |
|         |         |                 | QPSK       | 1.1017                       | 1.312                 |
| 1.4     | 20175   | 1733            | 16QAM      | 1.0962                       | 1.314                 |
|         |         |                 | QPSK       | 1.0969                       | 1.288                 |
| 1.4     | 20393   | 1754            | 16QAM      | 1.0914                       | 1.281                 |
|         |         |                 | QPSK       | 1.0890                       | 1.284                 |
| 3       | 19965   | 1712            | 16QAM      | 2.7339                       | 3.024                 |
|         |         |                 | QPSK       | 2.7299                       | 2.996                 |
| 3       | 20175   | 1733            | 16QAM      | 2.7302                       | 3.008                 |
|         |         |                 | QPSK       | 2.7392                       | 3.980                 |
| 3       | 20385   | 1754            | 16QAM      | 2.7379                       | 3.003                 |
|         |         |                 | QPSK       | 2.7325                       | 2.981                 |
| 5       | 19975   | 1713            | 16QAM      | 4.5372                       | 5.054                 |
|         |         |                 | QPSK       | 4.5400                       | 5.287                 |
| 5       | 20175   | 1733            | 16QAM      | 4.5343                       | 5.099                 |
|         |         |                 | QPSK       | 4.5201                       | 5.163                 |
| 5       | 20375   | 1753            | 16QAM      | 4.5152                       | 5.089                 |
|         |         |                 | QPSK       | 4.5230                       | 5.106                 |
| 10      | 20000   | 1715            | 16QAM      | 9.0718                       | 10.09                 |
|         |         |                 | QPSK       | 9.0866                       | 10.08                 |
| 10      | 20175   | 1733            | 16QAM      | 9.0598                       | 10.20                 |
|         |         |                 | QPSK       | 9.0548                       | 10.21                 |
| 10      | 20350   | 1750            | 16QAM      | 9.0265                       | 10.05                 |
|         |         |                 | QPSK       | 9.0580                       | 10.37                 |
| 15      | 20025   | 1718            | 16QAM      | 13.490                       | 14.77                 |
|         |         |                 | QPSK       | 13.485                       | 15.01                 |
| 15      | 20175   | 1733            | 16QAM      | 13.485                       | 14.75                 |
|         |         |                 | QPSK       | 13.455                       | 14.81                 |
| 15      | 20325   | 1748            | 16QAM      | 13.509                       | 14.92                 |
|         |         |                 | QPSK       | 13.512                       | 17.06                 |

|    |       |      |       |        |       |
|----|-------|------|-------|--------|-------|
| 20 | 20050 | 1720 | 16QAM | 17.923 | 19.31 |
|    |       |      | QPSK  | 17.915 | 19.39 |
| 20 | 20175 | 1733 | 16QAM | 17.922 | 19.40 |
|    |       |      | QPSK  | 17.910 | 19.58 |
| 20 | 20300 | 1745 | 16QAM | 17.891 | 19.49 |
|    |       |      | QPSK  | 17.979 | 19.94 |

### LTE Band VII (Part 27) result

| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 5       | 20775   | 2503            | 16QAM      | 4.5145                       | 5.128                 |
|         |         |                 | QPSK       | 4.5368                       | 5.236                 |
| 5       | 21100   | 2535            | 16QAM      | 4.5439                       | 5.160                 |
|         |         |                 | QPSK       | 4.5172                       | 5.061                 |
| 5       | 21425   | 2568            | 16QAM      | 4.5506                       | 5.210                 |
|         |         |                 | QPSK       | 4.5166                       | 5.130                 |
| 10      | 20800   | 2505            | 16QAM      | 9.0859                       | 10.23                 |
|         |         |                 | QPSK       | 9.0864                       | 10.11                 |
| 10      | 21100   | 2535            | 16QAM      | 9.0632                       | 10.18                 |
|         |         |                 | QPSK       | 9.0476                       | 10.05                 |
| 10      | 21400   | 2565            | 16QAM      | 9.0496                       | 10.21                 |
|         |         |                 | QPSK       | 9.1066                       | 10.26                 |
| 15      | 20825   | 2508            | 16QAM      | 13.506                       | 14.74                 |
|         |         |                 | QPSK       | 13.520                       | 15.10                 |
| 15      | 21100   | 2535            | 16QAM      | 13.494                       | 15.13                 |
|         |         |                 | QPSK       | 13.516                       | 15.05                 |
| 15      | 21400   | 2563            | 16QAM      | 13.508                       | 14.93                 |
|         |         |                 | QPSK       | 13.459                       | 15.04                 |
| 20      | 20850   | 2510            | 16QAM      | 17.861                       | 19.51                 |
|         |         |                 | QPSK       | 17.890                       | 19.43                 |
| 20      | 21100   | 2535            | 16QAM      | 17.970                       | 19.58                 |
|         |         |                 | QPSK       | 17.926                       | 19.52                 |
| 20      | 21350   | 2560            | 16QAM      | 17.903                       | 19.30                 |
|         |         |                 | QPSK       | 17.916                       | 19.34                 |

### LTE Band XII (Part 27)

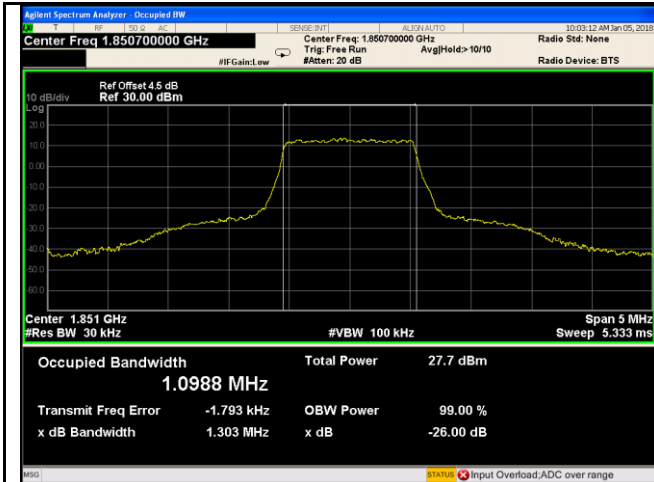
| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 1.4     | 23017   | 699.7           | 16QAM      | 1.1075                       | 1.308                 |
|         |         |                 | QPSK       | 1.1070                       | 1.297                 |
| 1.4     | 23095   | 707.5           | 16QAM      | 1.0983                       | 1.296                 |
|         |         |                 | QPSK       | 1.1070                       | 1.326                 |
| 1.4     | 23173   | 715.3           | 16QAM      | 1.1091                       | 1.303                 |
|         |         |                 | QPSK       | 1.1077                       | 1.298                 |
| 3       | 23025   | 700.5           | 16QAM      | 2.7349                       | 2.978                 |
|         |         |                 | QPSK       | 2.7429                       | 2.998                 |
| 3       | 23095   | 707.5           | 16QAM      | 2.7286                       | 3.009                 |
|         |         |                 | QPSK       | 2.7541                       | 3.015                 |
| 3       | 23165   | 714.5           | 16QAM      | 2.7319                       | 3.015                 |
|         |         |                 | QPSK       | 2.7381                       | 3.009                 |
| 5       | 23035   | 701.5           | 16QAM      | 4.5329                       | 5.220                 |
|         |         |                 | QPSK       | 4.5418                       | 5.185                 |
| 5       | 23095   | 707.5           | 16QAM      | 4.5455                       | 5.244                 |
|         |         |                 | QPSK       | 4.5343                       | 5.248                 |
| 5       | 23055   | 713.5           | 16QAM      | 4.5570                       | 5.223                 |
|         |         |                 | QPSK       | 4.5376                       | 5.203                 |
| 10      | 23060   | 704             | 16QAM      | 9.1118                       | 10.32                 |
|         |         |                 | QPSK       | 9.1402                       | 10.30                 |
| 10      | 23095   | 707.5           | 16QAM      | 9.0849                       | 10.24                 |
|         |         |                 | QPSK       | 9.0841                       | 10.26                 |
| 10      | 23130   | 711             | 16QAM      | 9.0935                       | 10.31                 |
|         |         |                 | QPSK       | 9.1013                       | 10.38                 |

### LTE Band XVII (Part 27)

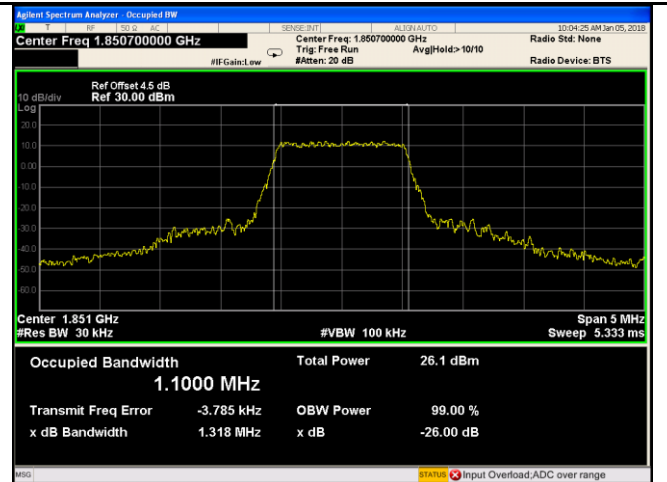
| BW(MHz) | Channel | Frequency (MHz) | Modulation | 99% Occupied Bandwidth (MHz) | 26 dB Bandwidth (MHz) |
|---------|---------|-----------------|------------|------------------------------|-----------------------|
| 5       | 23755   | 706.5           | 16QAM      | 4.5266                       | 5.182                 |
|         |         |                 | QPSK       | 4.5526                       | 5.190                 |
| 5       | 23790   | 710             | 16QAM      | 4.5312                       | 5.174                 |
|         |         |                 | QPSK       | 4.5346                       | 5.138                 |
| 5       | 23825   | 713.5           | 16QAM      | 4.5509                       | 5.194                 |
|         |         |                 | QPSK       | 4.5354                       | 5.191                 |
| 10      | 23780   | 709             | 16QAM      | 9.0860                       | 10.23                 |
|         |         |                 | QPSK       | 9.0995                       | 10.35                 |
| 10      | 23790   | 710             | 16QAM      | 9.0860                       | 10.23                 |
|         |         |                 | QPSK       | 9.0620                       | 10.31                 |
| 10      | 23800   | 711             | 16QAM      | 9.0528                       | 10.09                 |
|         |         |                 | QPSK       | 9.0748                       | 10.30                 |

## Test Plots

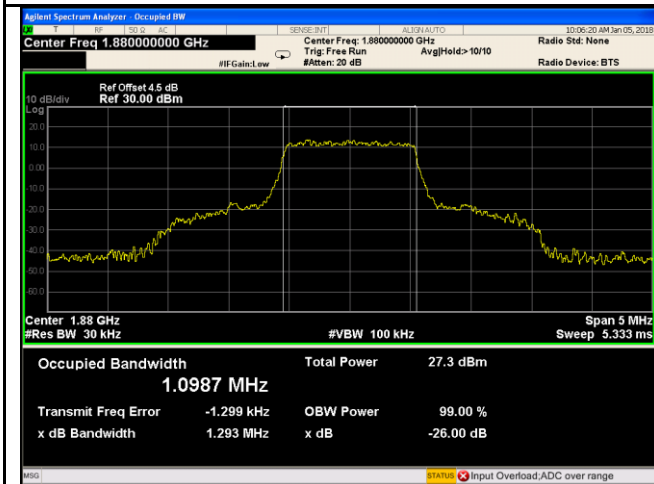
### LTE Band II (Part 24E)



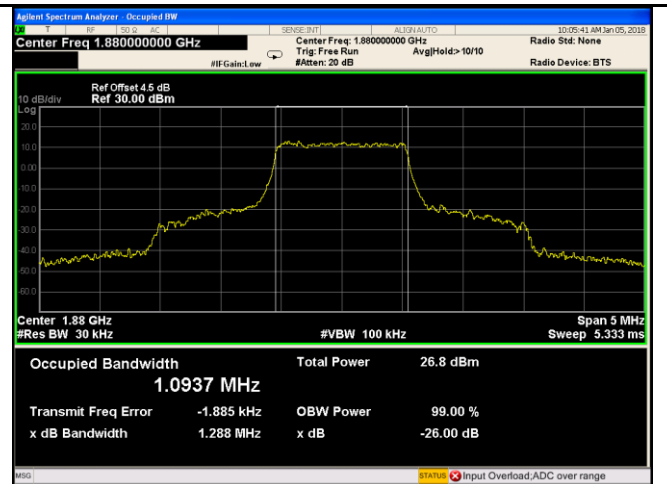
LTE Band II - Low CH QPSK-1.4



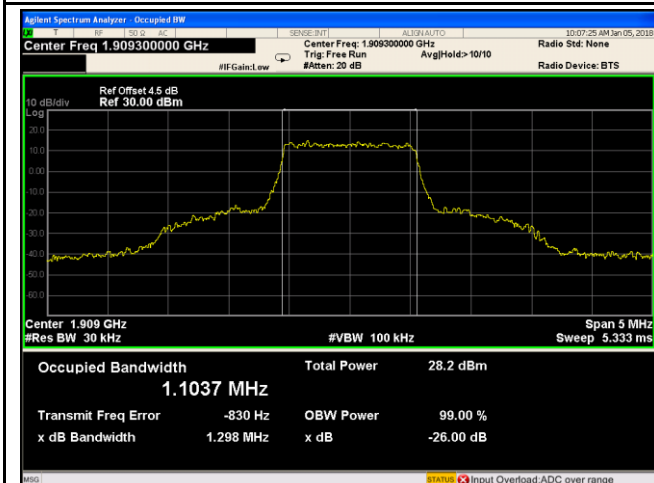
LTE Band II - Low CH 16QAM-1.4



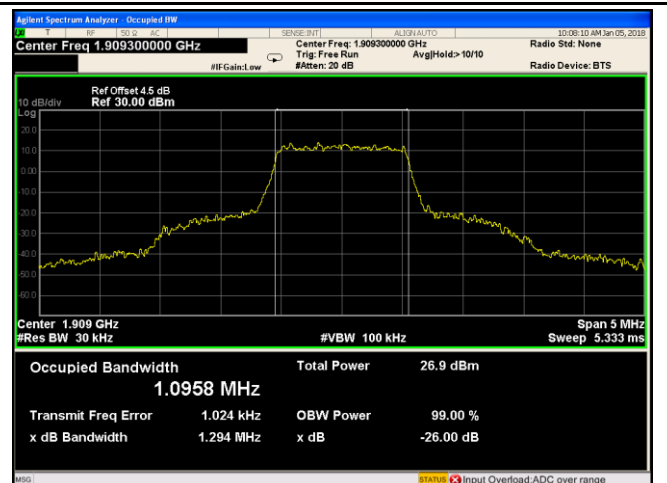
LTE Band II - Middle CH QPSK-1.4



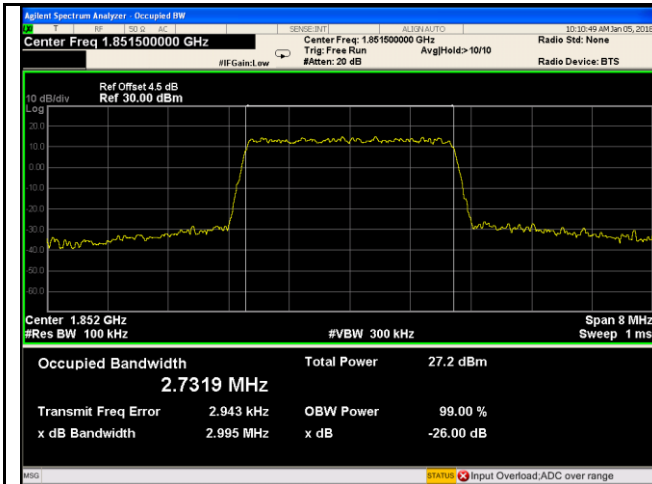
LTE Band II - Middle CH 16QAM-1.4



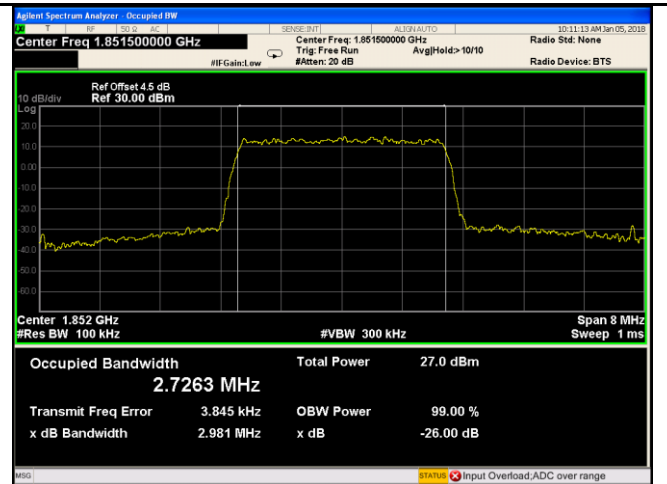
LTE Band II - High CH QPSK-1.4



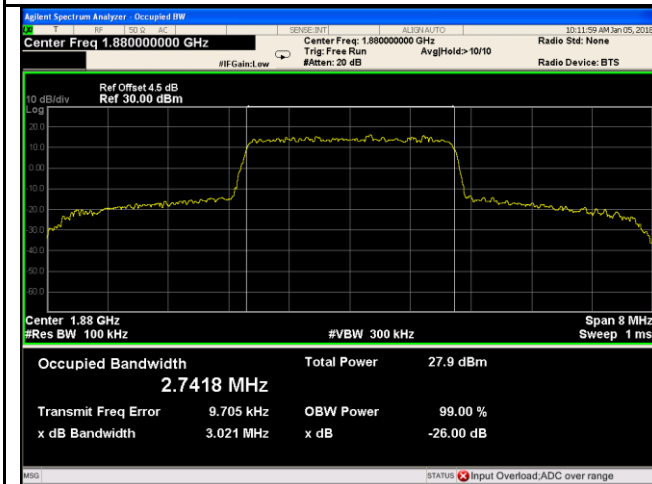
LTE Band II - High CH 16QAM-1.4



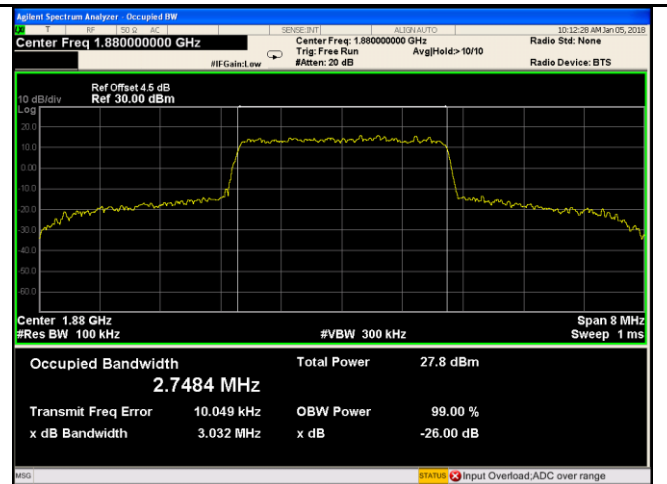
LTE Band II - Low CH QPSK-3



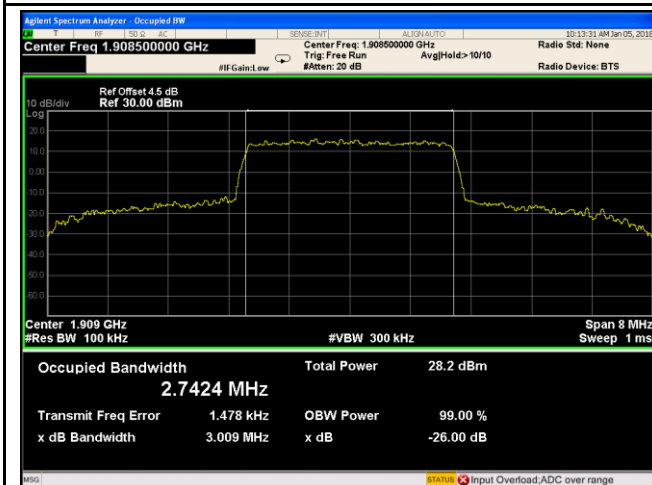
LTE Band II - Low CH 16QAM-3



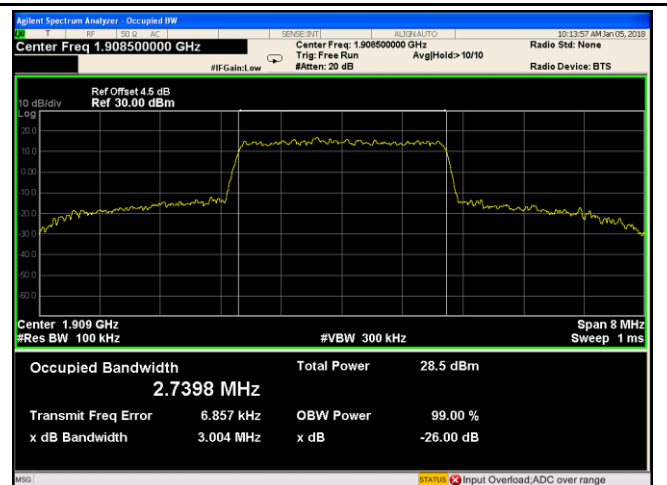
LTE Band II - Middle CH QPSK-3



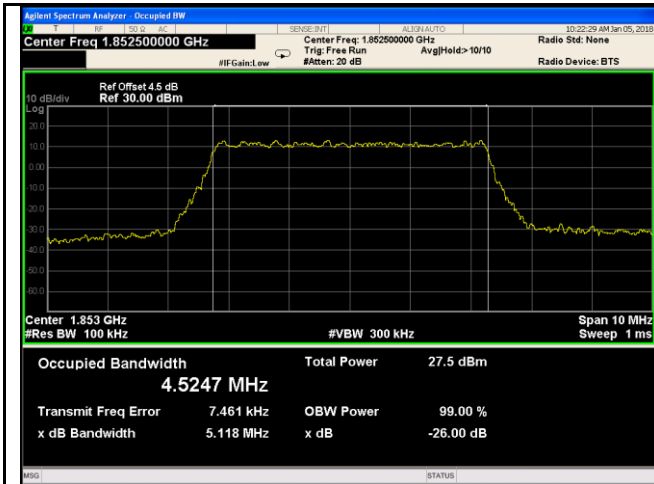
LTE Band II - Middle CH 16QAM-3



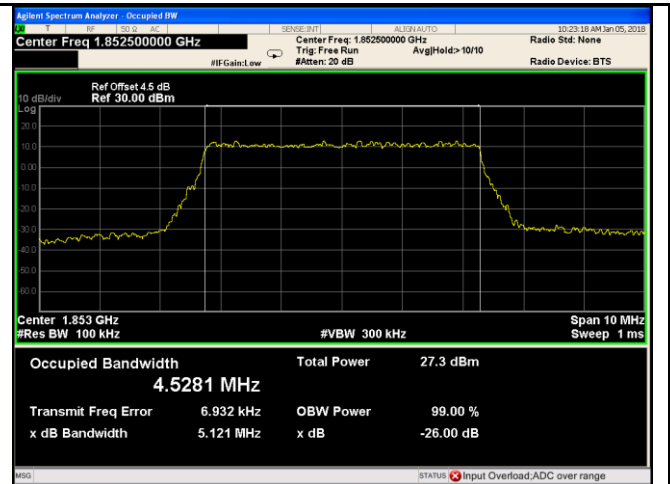
LTE Band II - High CH QPSK-3



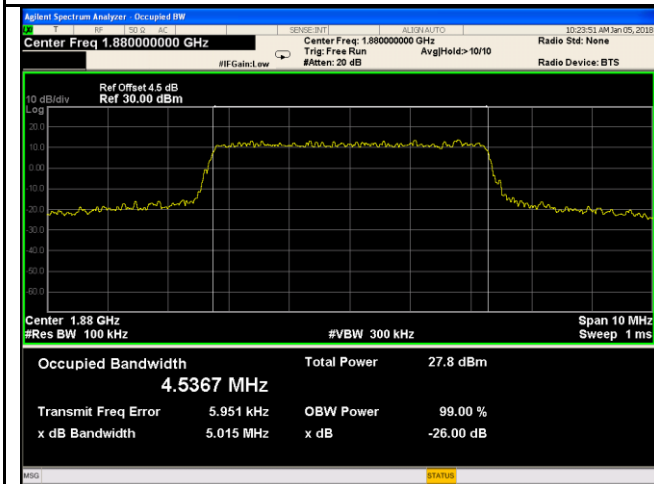
LTE Band II - High CH 16QAM-3



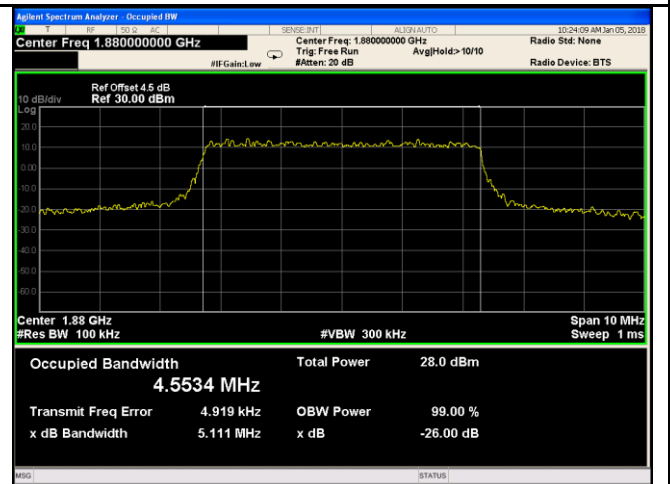
LTE Band II - Low CH QPSK-5



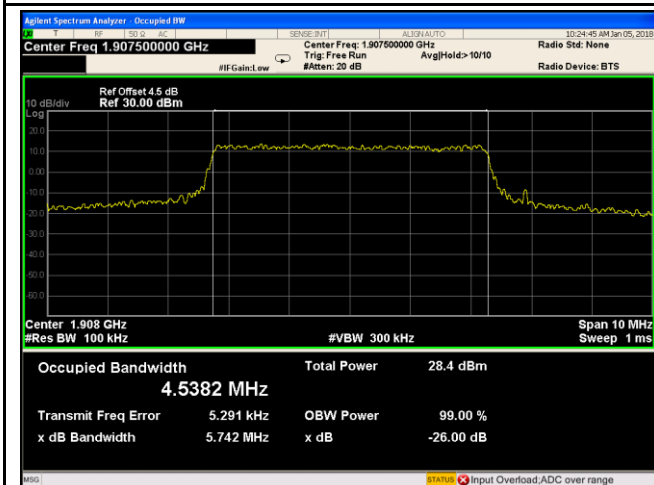
LTE Band II - Low CH 16QAM-5



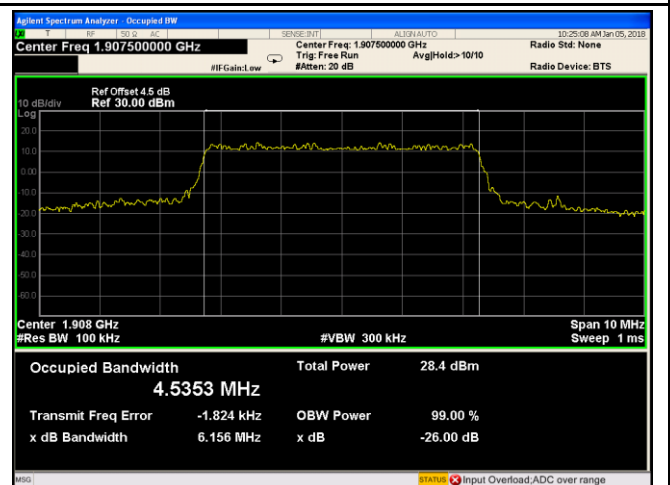
LTE Band II - Middle CH QPSK-5



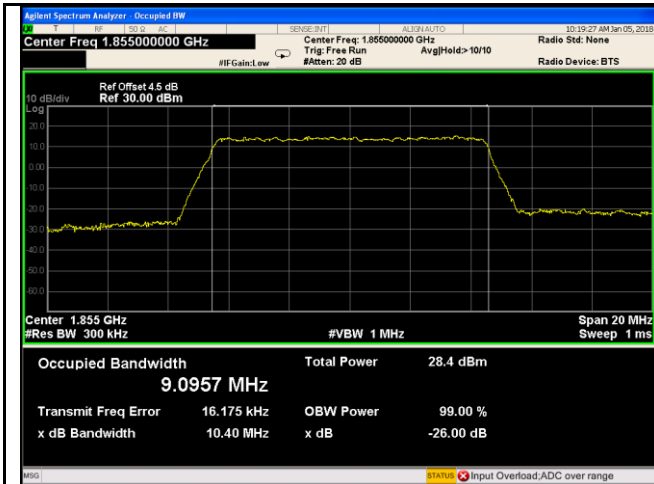
LTE Band II - Middle CH 16QAM-5



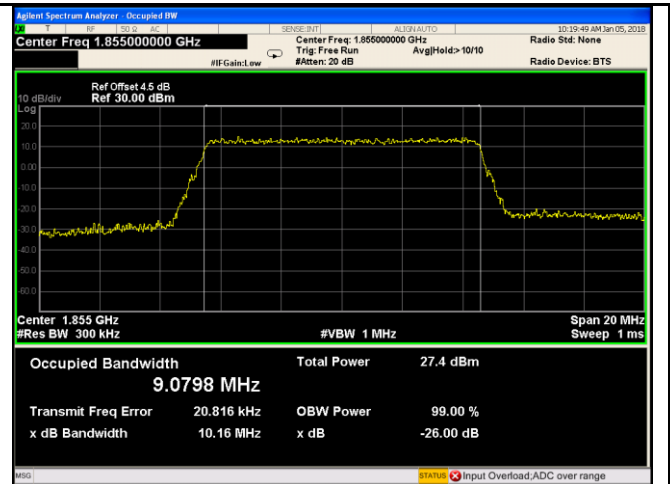
LTE Band II - High CH QPSK-5



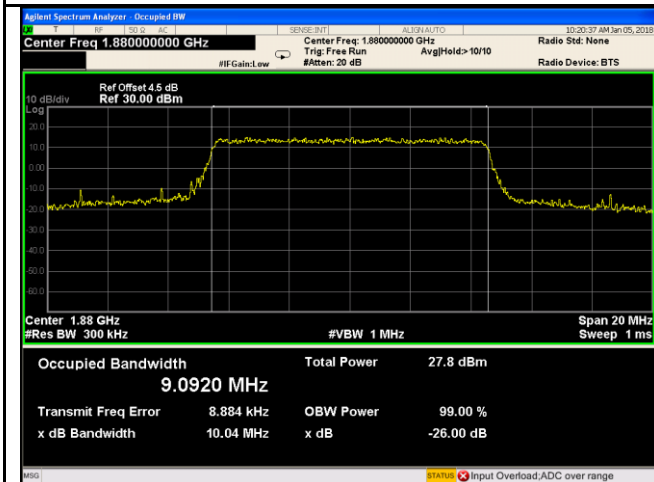
LTE Band II - High CH 16QAM-5



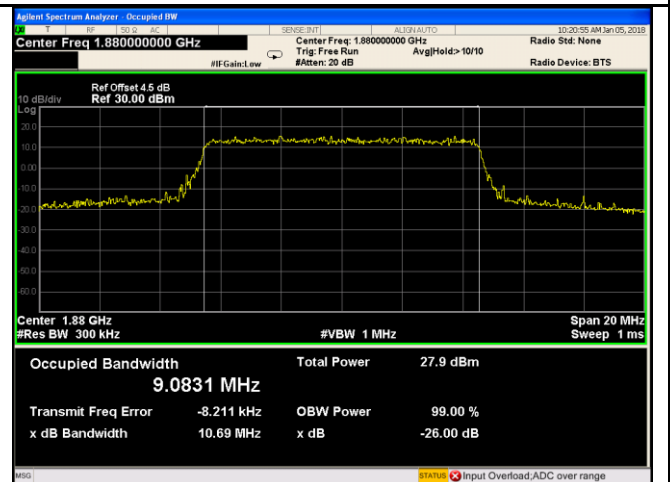
LTE Band II - Low CH QPSK-10



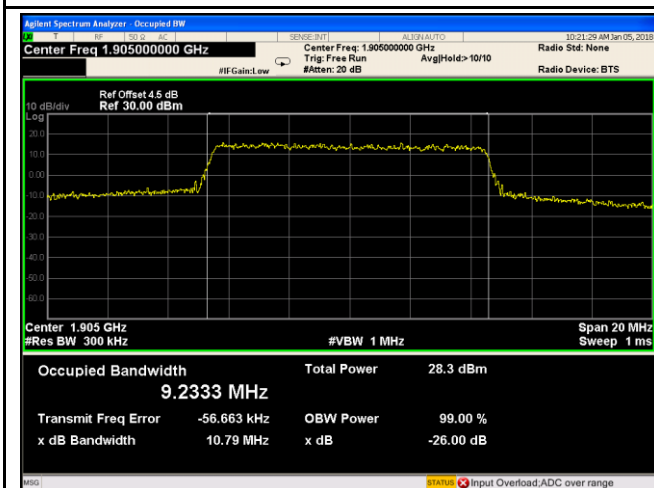
LTE Band II - Low CH 16QAM-10



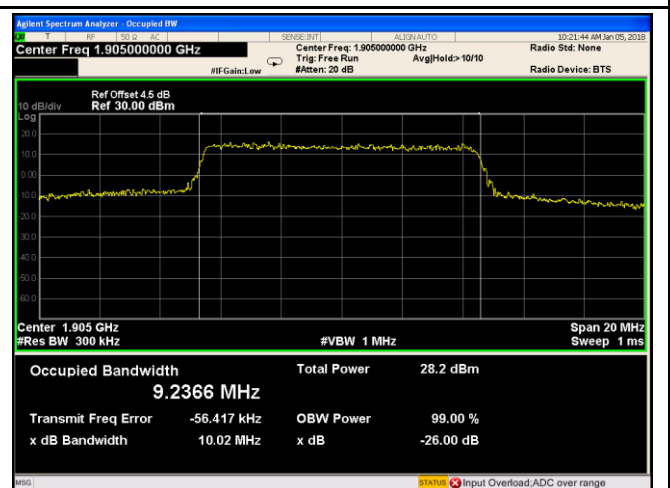
LTE Band II - Middle CH QPSK-10



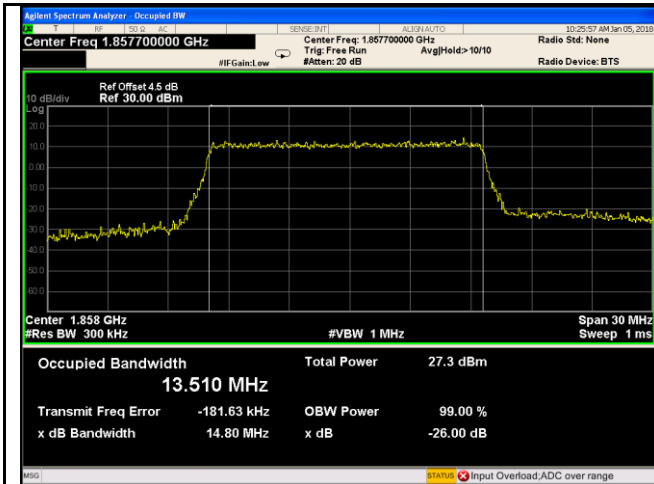
LTE Band II - Middle CH 16QAM-10



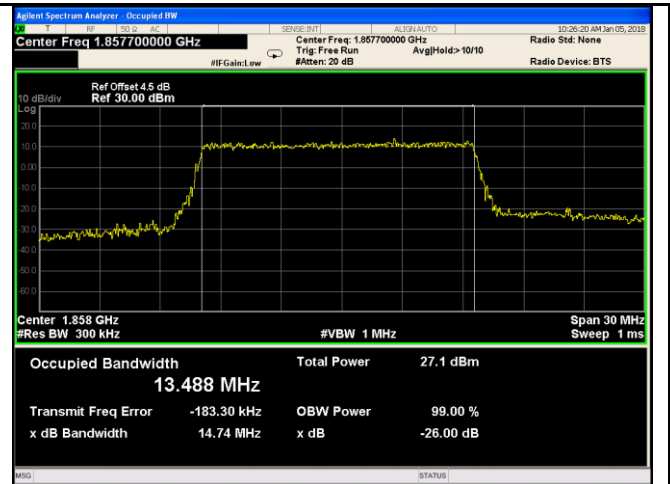
LTE Band II - High CH QPSK-10



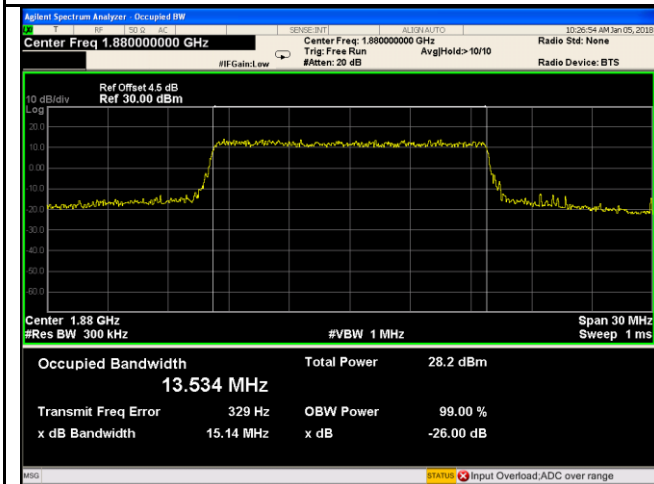
LTE Band II - High CH 16QAM-10



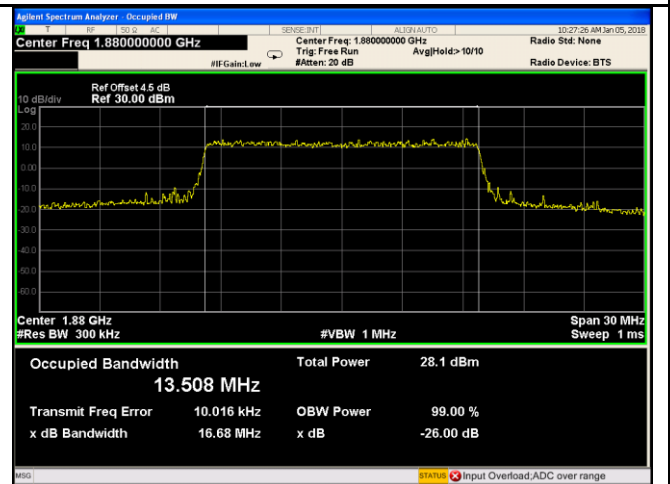
LTE Band II - Low CH QPSK-15



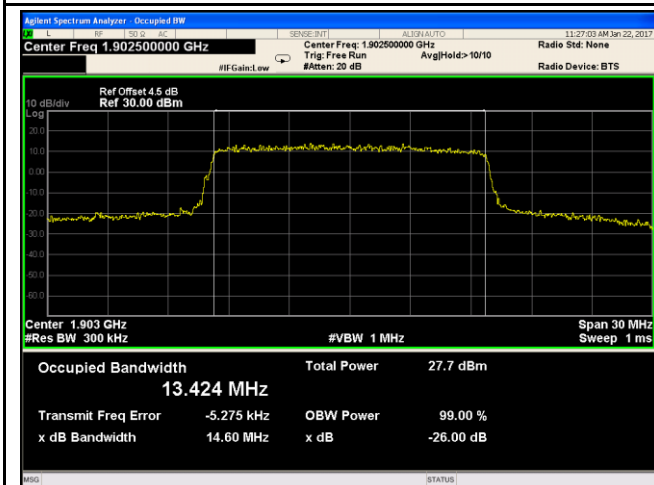
LTE Band II - Low CH 16QAM-15



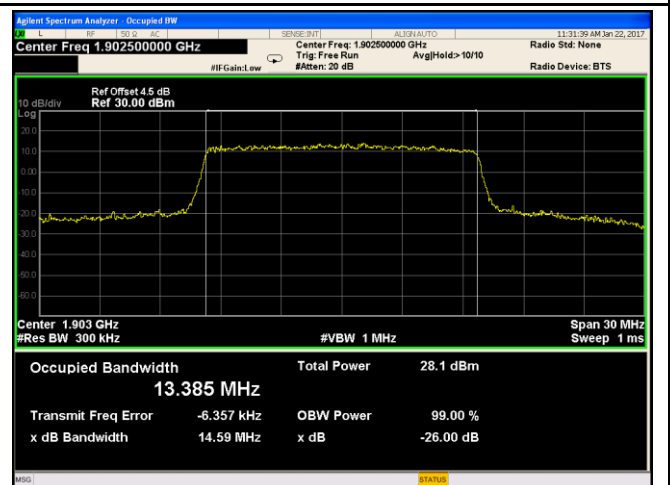
LTE Band II - Middle CH QPSK-15



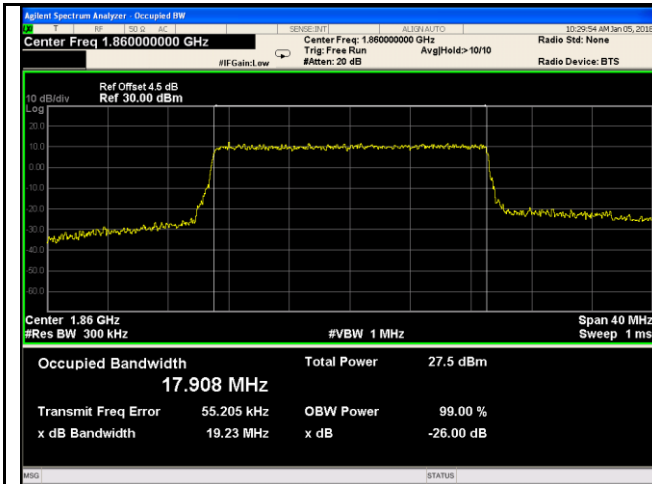
LTE Band II - Middle CH 16QAM-15



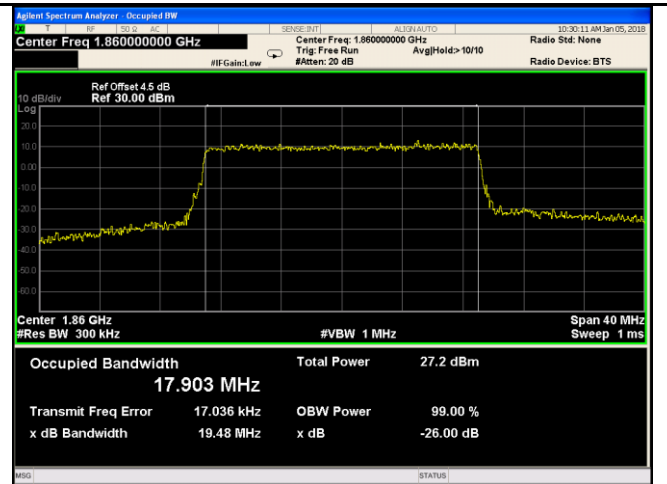
LTE Band II - High CH QPSK-15



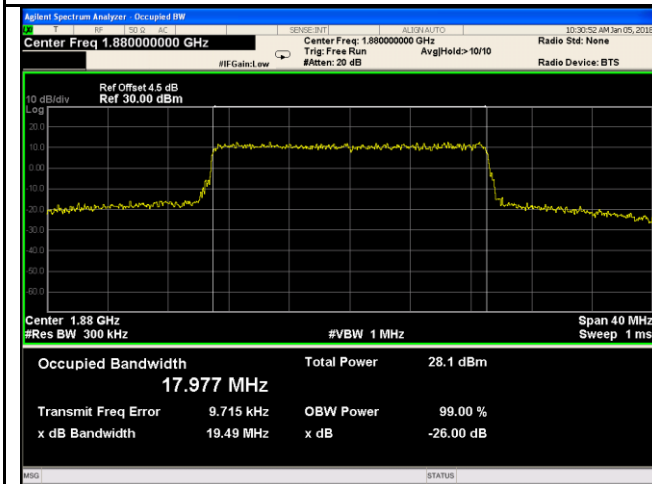
LTE Band II - High CH 16QAM-15



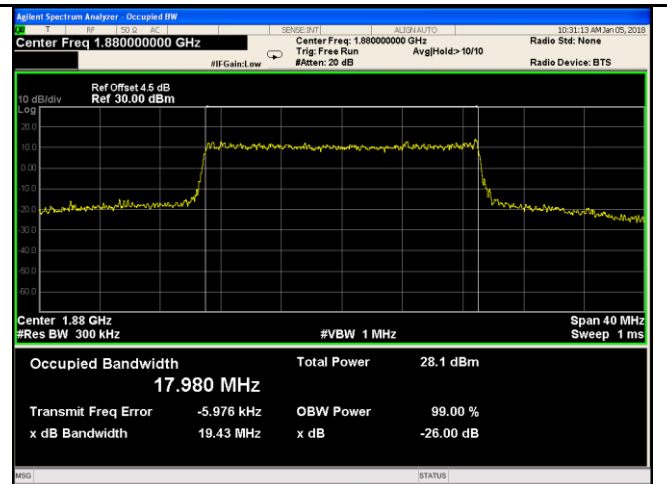
LTE Band II - Low CH QPSK-20



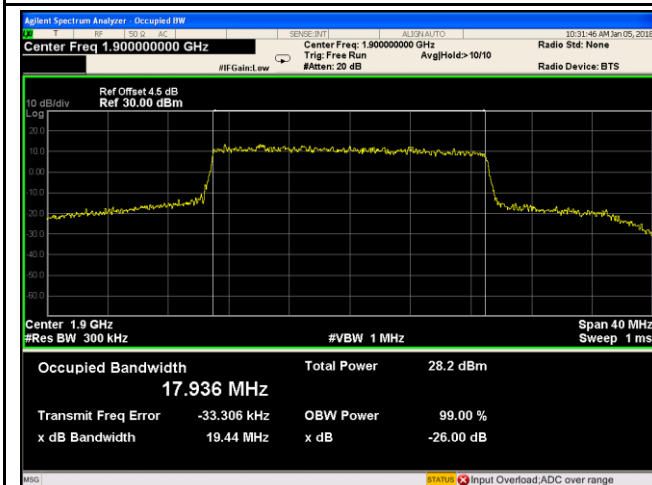
LTE Band II - Low CH 16QAM-20



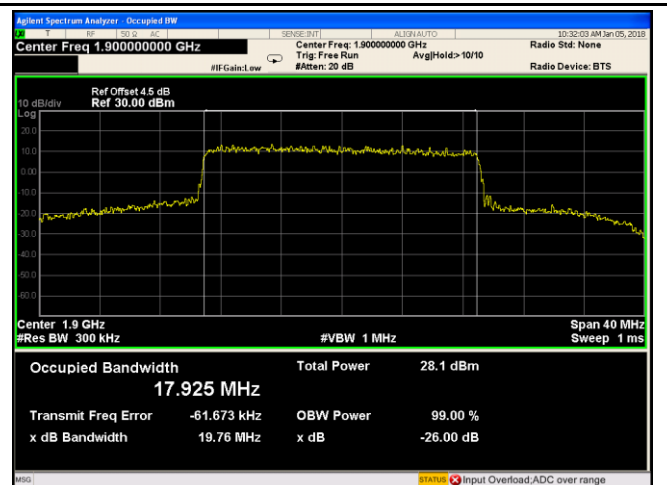
LTE Band II - Middle CH QPSK-20



LTE Band II - Middle CH 16QAM-20

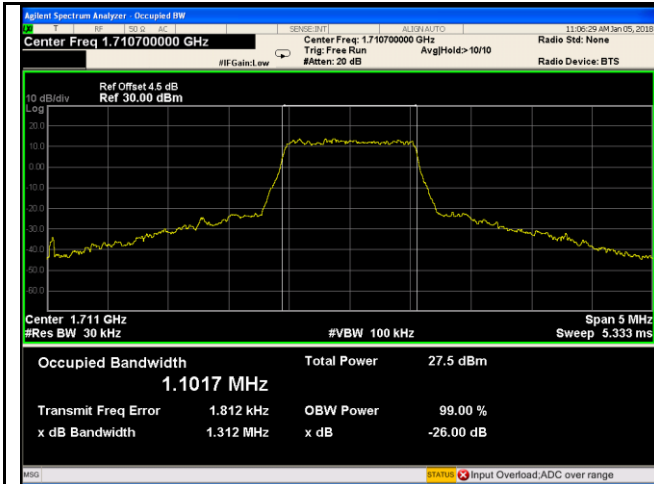


LTE Band II - High CH QPSK-20

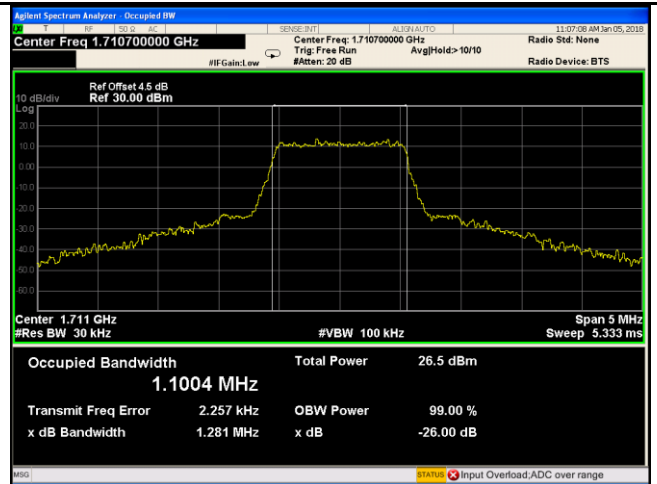


LTE Band II - High CH 16QAM-20

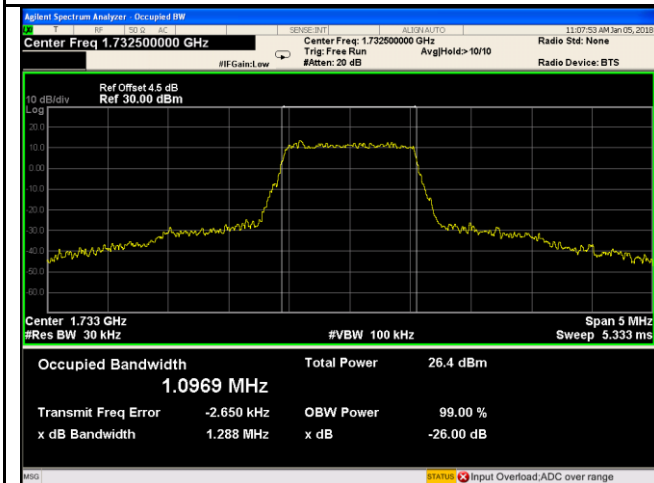
## LTE Band IV (Part 27)



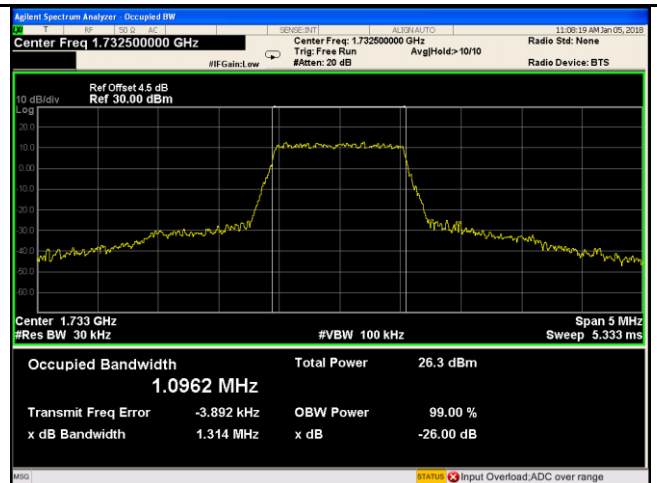
LTE Band IV - Low CH QPSK-1.4



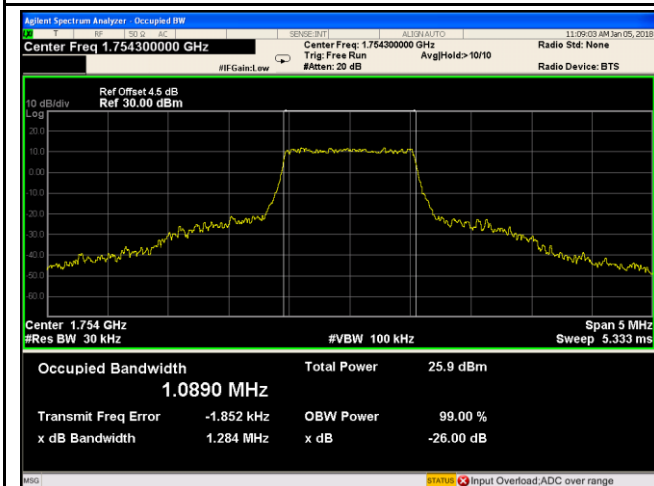
LTE Band IV - Low CH 16QAM-1.4



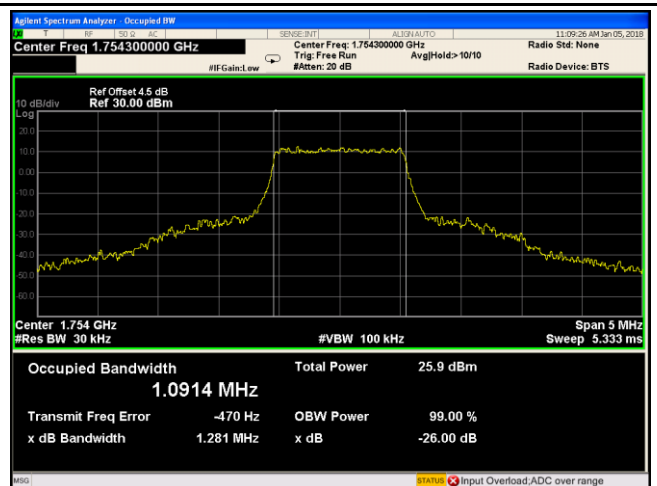
LTE Band IV - Middle CH QPSK-1.4



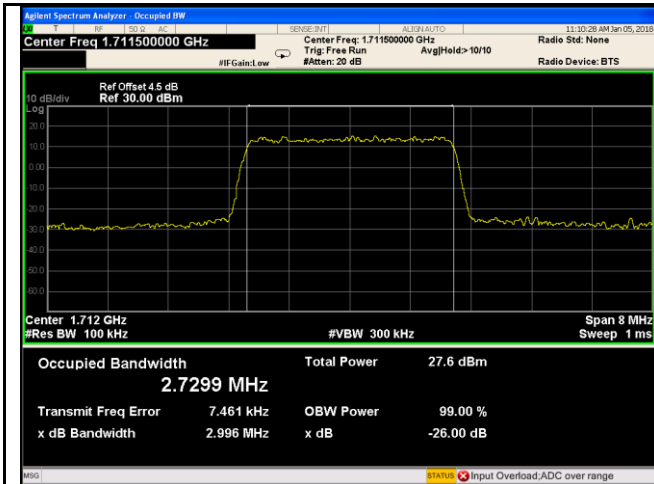
LTE Band IV - Middle CH 16QAM-1.4



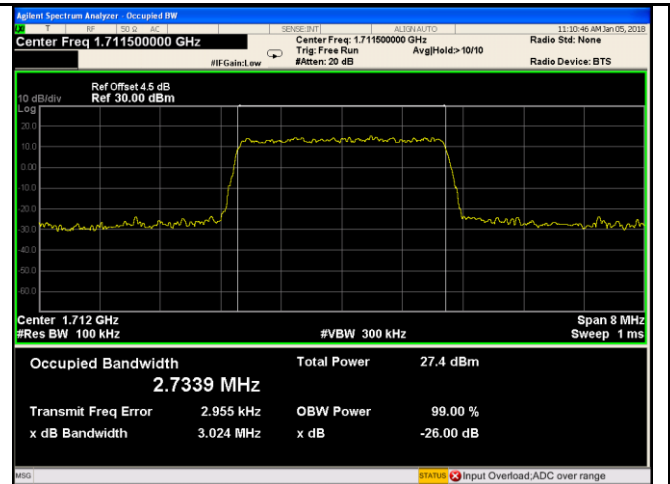
LTE Band IV - High CH QPSK-1.4



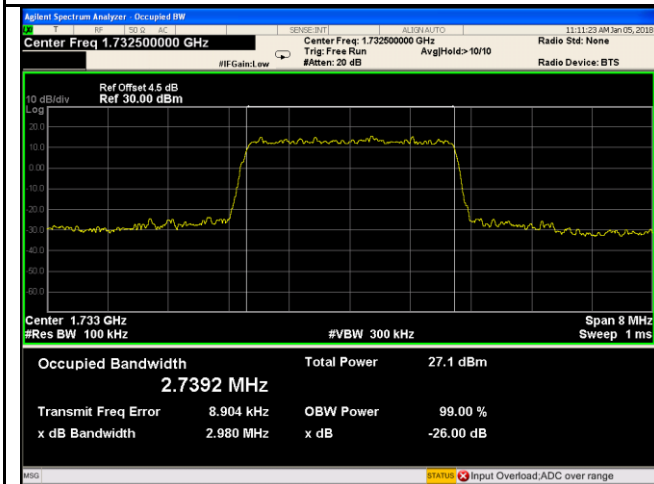
LTE Band IV - High CH 16QAM-1.4



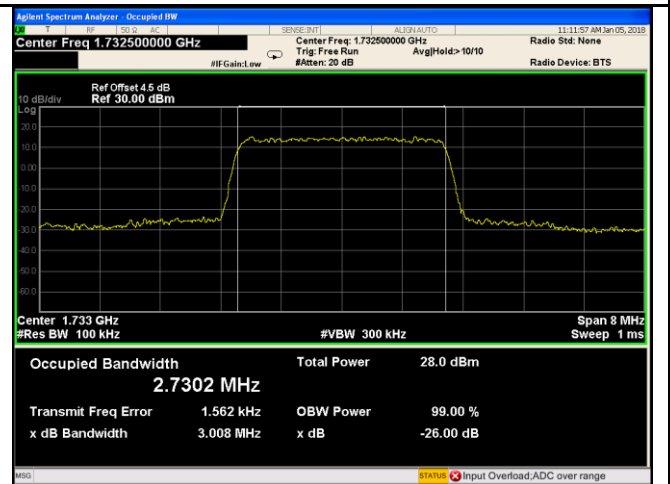
LTE Band IV - Low CH QPSK-3



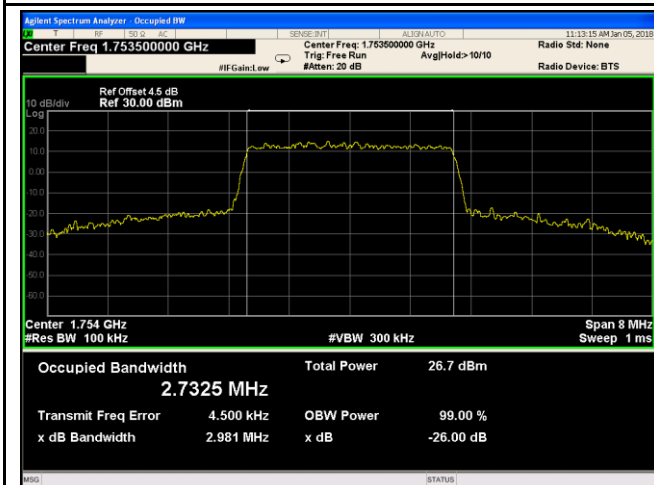
LTE Band IV - Low CH 16QAM-3



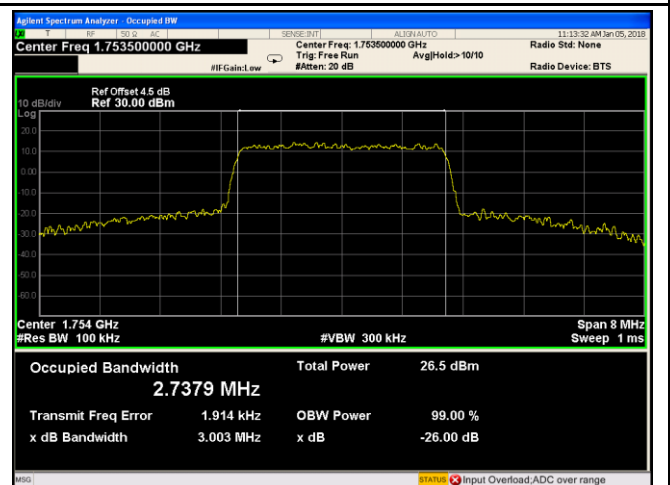
LTE Band IV - Middle CH QPSK-3



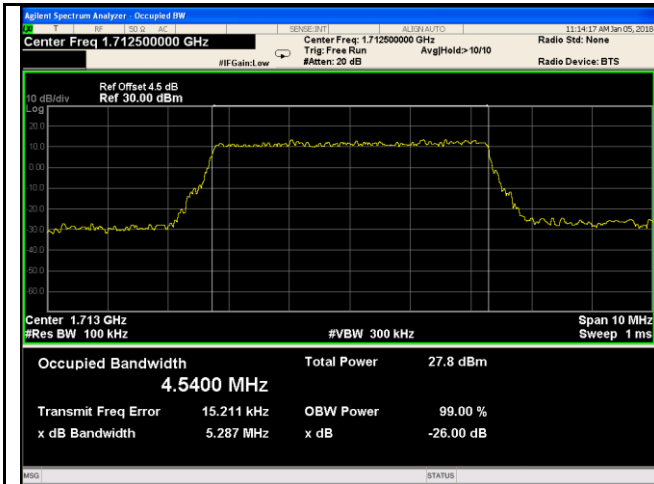
LTE Band IV - Middle CH 16QAM-3



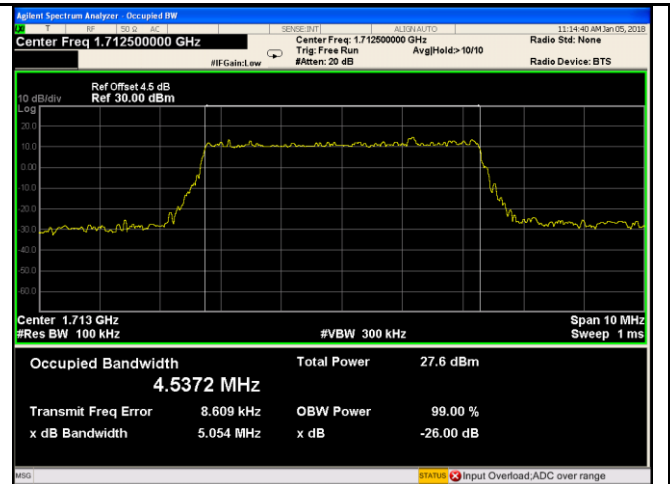
LTE Band IV - High CH QPSK-3



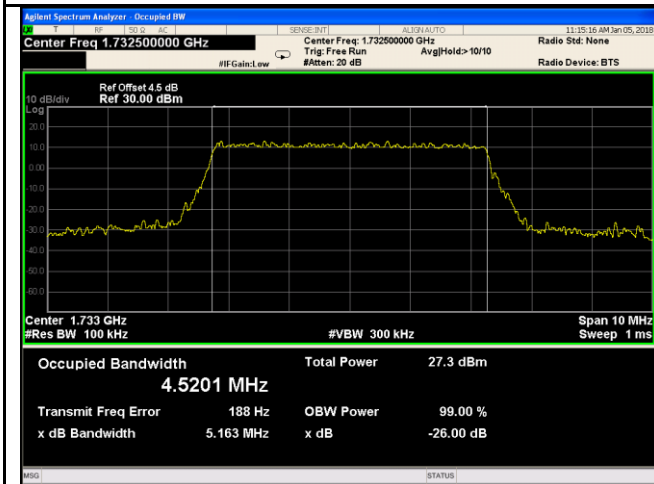
LTE Band IV - High CH 16QAM-3



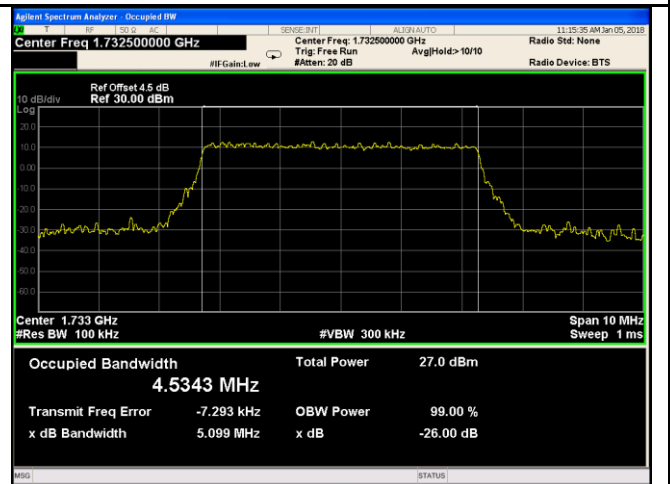
LTE Band IV - Low CH QPSK-5



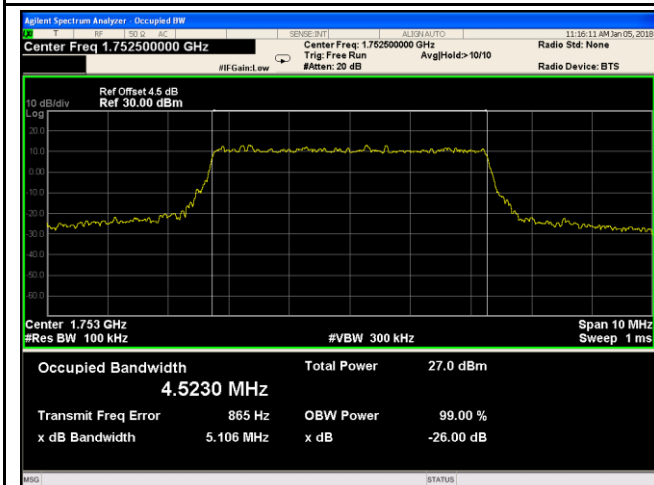
LTE Band IV - Low CH 16QAM-5



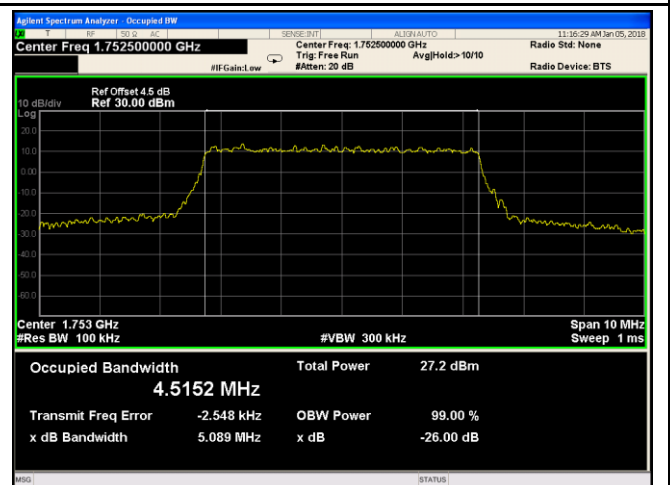
LTE Band IV - Middle CH QPSK-5



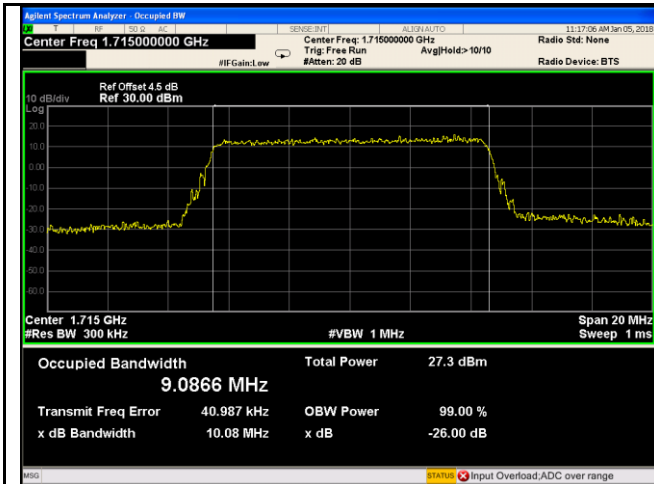
LTE Band IV - Middle CH 16QAM-5



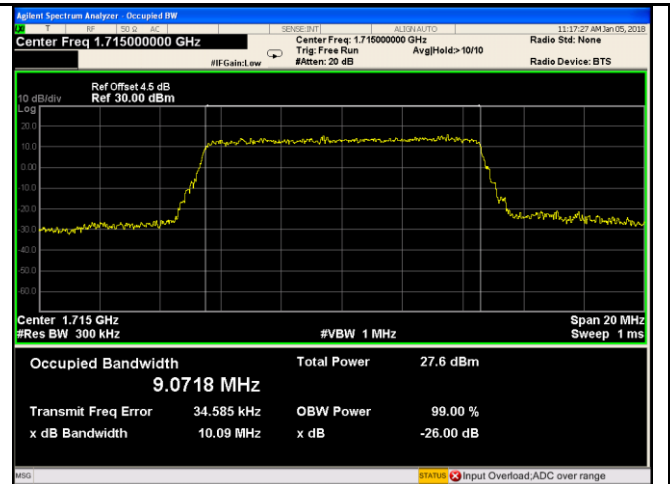
LTE Band IV - High CH QPSK-5



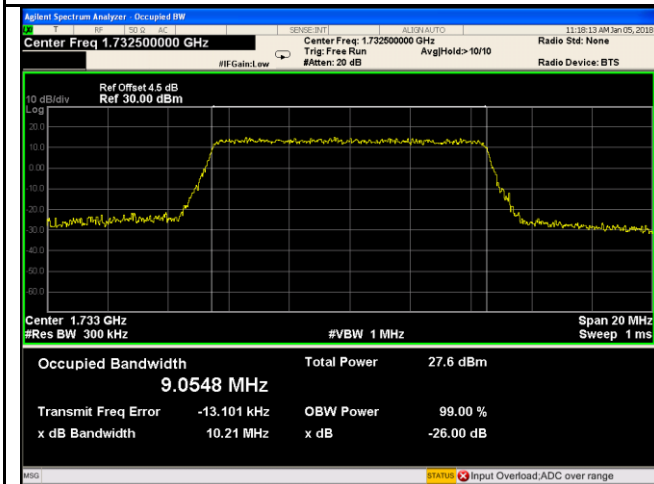
LTE Band IV - High CH 16QAM-5



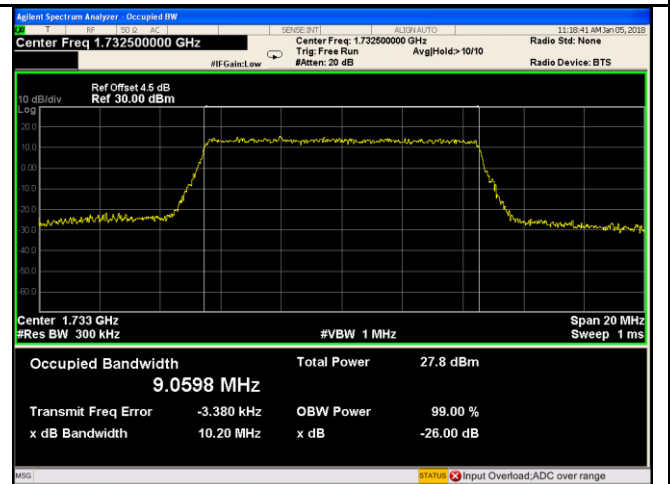
LTE Band IV - Low CH QPSK-10



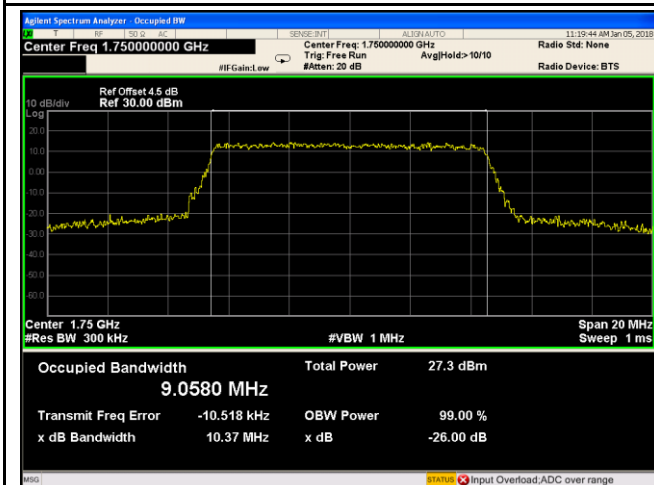
LTE Band IV - Low CH 16QAM-10



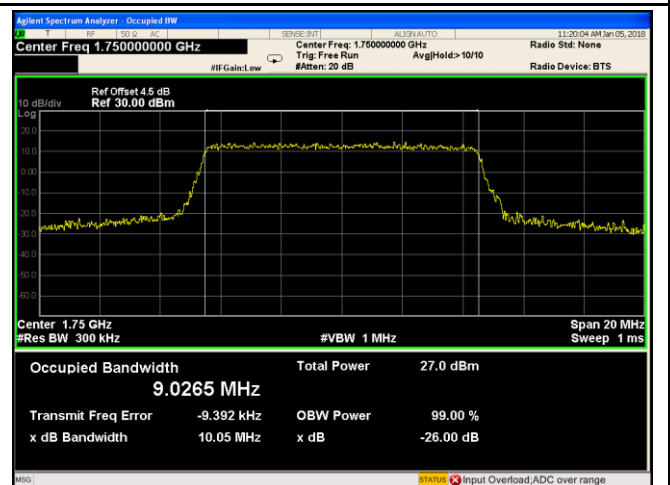
LTE Band IV - Middle CH QPSK-10



LTE Band IV - Middle CH 16QAM-10



LTE Band IV - High CH QPSK-10



LTE Band IV - High CH 16QAM-10