# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| **FCC ID** | **:** | **A4RG020PQ** |
| **Equipment** | **:** | **Phone** |
| **Model Name** | **:** | **G020P, G020Q** |
| **Applicant** | **:** | **Google LLC**<br>**1600 Amphitheatre Parkway,**<br>**Mountain View, California, 94043 USA** |
| **Standard** | **:** | **47 CFR Part 2, 22(H), 24(E), 27** |

**The product was received on Nov. 07, 2018 and testing was started from Apr. 26, 2019 and completed on Jun. 18, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.**

**The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.**

Jones Tsai

**Approved by: Jones Tsai**

***SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory***
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# History of this test report

| Report No. | Version | Description | Issued Date |
|---|---|---|---|
| FG8N0620-06B | 01 | Initial issue of report | Jul. 05, 2019 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 3.2 | §2.1046 | Conducted Output Power | Reporting only | - |
| | §22.913 (a)(2) | Effective Radiated Power (Band 5) (Band 26) | Pass | |
| | §27.50 (b)(10) §27.50 (c)(10) | Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71) | | |
| | §24.232 (c) §27.50 (h)(2) | Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41) | | |
| | §27.50 (d)(4) | Equivalent Isotropic Radiated Power (Band 4) (Band 66) | | |
| 3.3 | §24.232 (d) §27.50 (d)(5) | Peak-to-Average Ratio | Pass | - |
| 3.4 | §2.1049 | Occupied Bandwidth | Reporting only | - |
| 3.5 | §2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h) | Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass | - |
| | §2.1051 §27.53 (m)(4) | Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41) | | |
| 3.6 | §2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h) | Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71) | Pass | - |
| | §2.1051 §27.53 (m)(4) | Conducted Spurious Emission (Band 7) (Band 38) (Band 41) | | |
| 3.7 | §2.1055 §22.355 §24.235 §27.54 | Frequency Stability Temperature & Voltage | Pass | - |

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 4.2 | §2.1053<br>§22.917 (a)<br>§24.238 (a)<br>§27.53 (c)(2)<br>§27.53 (f)<br>§27.53 (g) | Radiated Spurious Emission<br>(Band 2) (Band 4) (Band 5)<br>(Band 12) (Band 13) (Band 17)<br>(Band 25) (Band 26) (Band 66)<br>(Band 71) | Pass | Under limit 11.98 dB at 7560.000 MHz |
| | §2.1053<br>§27.53 (m)(4) | Radiated Spurious Emission<br>(Band 7) (Band 38) (Band 41) | | |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification. |

**Reviewed by: Wii Chang**

**Report Producer: Dara Chiu**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Phone |
| **Model Name** | G020P, G020Q |
| **FCC ID** | A4RG020PQ |
| **EUT supports Radios application** | GSM/EGPRS/WCDMA/HSPA/LTE/NFC/GNSS/WPC<br>WLAN 11b/g/n HT20<br>WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE<br>60 GHz Low Power Transmitter |
| **EUT Stage** | Identical Prototype |

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. The deviations detail between model name: G020P and model name: G020Q which list as below :
   a. Band 71 and LTE Band 7_CA, and LTE Band 7 (Ant. 0_C) were supported with G020P only
   b. LTE Band 41_CA and LTE Band 41 (Ant. 0_C) were supported with G020Q only

| EUT Information List for G020P | |
|---|---|
| No. | S/N |
| #1 | 931BA07008 |
| #2 | 958BA00AM9 |

| EUT Information List for G020Q | |
|---|---|
| No. | S/N |
| #1 | 94PBA009X1 |
| #2 | 958BA00AL2 |

## 1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| **Tx Frequency** | LTE Band 2: 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4: 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 5: 824.7 MHz ~ 848.3 MHz<br>LTE Band 7: 2502.5 MHz ~ 2567.5 MHz<br>LTE Band 12: 699.7 MHz ~ 715.3 MHz<br>LTE Band 13: 779.5 MHz ~ 784.5 MHz<br>LTE Band 17: 706.5 MHz ~ 713.5 MHz<br>LTE Band 25: 1850.7MHz ~ 1914.3 MHz<br>LTE Band 26: 824.7MHz ~ 848.3 MHz<br>LTE Band 38: 2572.5 MHz ~ 2617.5 MHz<br>LTE Band 41: 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66: 1710.7 MHz ~ 1754.3 MHz<br>LTE Band 71: 665.5 MHz ~ 695.5 MHz (for G020P Only) |
| **Rx Frequency** | LTE Band 2: 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4: 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 5: 869.7 MHz ~ 893.3 MHz<br>LTE Band 7: 2622.5MHz ~ 2687.5 MHz<br>LTE Band 12: 729.7 MHz ~ 745.3 MHz<br>LTE Band 13: 748.5 MHz ~ 753.5 MHz<br>LTE Band 17: 736.5 MHz ~ 743.5 MHz<br>LTE Band 25: 1930.7MHz ~ 1994.3 MHz<br>LTE Band 26: 869.7MHz ~ 893.3MHz<br>LTE Band 38: 2572.5MHz ~ 2617.5MHz<br>LTE Band 41: 2498.5 MHz ~ 2687.5 MHz<br>LTE Band 66: 2110.7 MHz ~ 2154.3 MHz<br>LTE Band 71: 619.5 MHz ~ 649.5 MHz (for G020P Only) |
| **Bandwidth** | LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz<br>LTE Band 13: 5MHz / 10MHz<br>LTE Band 17: 5MHz / 10MHz<br>LTE Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz<br>LTE Band 38: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 41: 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz<br>LTE Band 71: 5MHz / 10MHz / 15MHz / 20MHz (for G020P Only) |

| Standards-related Product Specification | |
|---|---|
| **Maximum Output Power to Antenna** | LTE Band 2 : 24.43 dBm<br>LTE Band 4 : 24.43 dBm<br>LTE Band 5 : 24.44 dBm<br>LTE Band 7 : 24.37 dBm<br>LTE Band 7_CA : 24.88 dBm (for G020P Only)<br>LTE Band 12 : 24.56 dBm<br>LTE Band 13 : 24.41 dBm<br>LTE Band 17 : 24.52 dBm<br>LTE Band 25 : 24.60 dBm<br>LTE Band 26 : 24.42 dBm<br>LTE Band 38 : 24.91 dBm<br>LTE Band 41 : 24.68 dBm<br>LTE Band 41 : 26.13 dBm for HPUE<br>LTE Band 41_CA : 24.82 dBm (for G020Q Only)<br>LTE Band 66 : 24.55 dBm<br>LTE Band 71 : 24.37 dBm (for G020P Only) |
| **Antenna Type / Gain** | **<For Ant. 0_B>**<br>LTE Band 2 : ILA Antenna with gain 0.7 dBi<br>LTE Band 4 : ILA Antenna with gain 0.5 dBi<br>LTE Band 7 : ILA Antenna with gain 3.2 dBi<br>LTE Band 25 : ILA Antenna with gain 0.3 dBi<br>LTE Band 38 : ILA Antenna with gain 3.5 dBi<br>LTE Band 41 : ILA Antenna with gain 3.2 dBi<br>LTE Band 66 : ILA Antenna with gain 0.5 dBi<br>**<For Ant. 0_C>**<br>LTE Band 4 : IFA Antenna with gain 0.7 dBi<br>LTE Band 5 : IFA Antenna with gain 1.4 dBi<br>LTE Band 7 : IFA Antenna with gain 0.5 dBi<br>LTE Band 12 : IFA Antenna with gain -1.8 dBi<br>LTE Band 13 : IFA Antenna with gain -0.1 dBi<br>LTE Band 17 : IFA Antenna with gain -1.6 dBi<br>LTE Band 26 : IFA Antenna with gain 1.2 dBi<br>LTE Band 38 : IFA Antenna with gain 0.5 dBi<br>LTE Band 41 : ILA Antenna with gain 0.5 dBi<br>LTE Band 71 : ILA Antenna with gain -1.0 dBi (for G020P Only)<br>**<For Ant. 1>**<br>LTE Band 2 : IFA Antenna with gain 1.2 dBi<br>LTE Band 4 : IFA Antenna with gain 0.2 dBi<br>LTE Band 5 : IFA Antenna with gain -3.1 dBi<br>LTE Band 7 : IFA Antenna with gain 1.2 dBi<br>LTE Band 12 : IFA Antenna with gain -5.6 dBi<br>LTE Band 13 : IFA Antenna with gain -4.8 dBi<br>LTE Band 17 : IFA Antenna with gain -5.1 dBi<br>LTE Band 25 : IFA Antenna with gain 1.5 dBi<br>LTE Band 26 : IFA Antenna with gain -3.7 dBi<br>LTE Band 38 : IFA Antenna with gain 1.6 dBi<br>LTE Band 41 : IFA Antenna with gain 1.7 dBi<br>LTE Band 66 : IFA Antenna with gain 0.8 dBi<br>LTE Band 71 : IFA Antenna with gain -3.8 dBi (for G020P Only) |
| **Type of Modulation** | QPSK / 16QAM / 64QAM |

## 1.3 Modification of EUT

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

## 1.4 Testing Location

| | | |
|---|---|---|
| **Test Site** | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory | |
| **Test Site Location** | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 | |
| **Test Site No.** | **Sporton Site No.** | |
| | TH05-HY | 03CH07-HY |
| **Test Engineer** | Jacky Wang | Jesse Wang, Stan Hsieh, Troye Hsieh, and Ken Wu |
| **Temperature** | 22~24℃ | 21~24℃ |
| **Relative Humidity** | 54~58% | 52~55% |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190

## 1.5 Applicable Standards

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

- ANSI C63.26-2015
- ANSI / TIA-603-E
- 47 CFR Part 2, 22(H), 24(E), 27
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

# 2 Test Configuration of Equipment Under Test

## 2.1 Test Mode

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

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z with Accessory (Earphone or Adapter). The worst cases of panels were recorded in this report:

**<Adapter Mode>**

| **<For G020P>** | | | |
|---|---|---|---|
| **LTE Band 4** | **LTE Band 7** | | **LTE Band 7_CA** |
| - | Y Plane for Ant. 0_B | | Y Plane for Ant. 0_B |
| Z Plane for Ant. 0_C | Y Plane for Ant. 0_C | | Z Plane for Ant. 0_C |
| - | Y Plane for Ant. 1 | | Z Plane for Ant. 1 |
| - | Z Plane with WPC Charging Mode for Ant. 1 | | |
| **LTE Band 12** | **LTE Band 13** | **LTE Band 25** | **LTE Band 26** |
| - | - | Y Plane for Ant. 0_B | |
| Y Plane for Ant. 0_C | Y Plane for Ant. 0_C | - | X Plane for Ant. 0_C |
| Y Plane for Ant. 1 | Y Plane for Ant. 1 | Y Plane for Ant. 1 | X Plane for Ant. 1 |
| **LTE Band 38** | **LTE Band 41 (HPUE)** | **LTE Band 66** | **LTE Band 71** |
| Y Plane for Ant. 0_B | X Plane for Ant. 0_B | Y Plane for Ant. 0_B | - |
| Y Plane for Ant. 0_C | - | - | X Plane for Ant. 0_A |
| Y Plane for Ant. 1 | Z Plane for Ant. 1 | Y Plane for Ant. 1 | X Plane for Ant. 1 |

| **<For G020Q>** | |
|---|---|
| **LTE Band 41** | **LTE Band 41_CA** |
| - | X Plane for Ant. 0_B |
| X Plane for Ant. 0_C | X Plane for Ant. 0_C |
| - | X Plane for Ant. 1 |

**<For G020P>**

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 71 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Peak-to-Average Ratio | 2 | Covered by Band 25 | | | | | | | | | | | | v | v | v |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | v | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | v | v |
| | 7 | - | - | | | | v | v | v | v | v | | v | v | v | v |
| | 12 | | | | v | - | - | v | v | v | v | | v | v | v | v |
| | 13 | - | - | | v | - | - | v | v | v | v | | v | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | v | v |
| | 25 | | | | | | v | v | v | v | v | | v | v | v | v |
| | 26 | | | | | v | - | v | v | v | v | | v | v | v | v |
| | 38 | - | - | | | v | - | v | v | v | v | | v | v | v | v |
| | 41 | - | - | | | | v | v | v | v | v | | v | v | v | v |
| | 66 | | | | | | v | v | v | v | v | | v | v | v | v |
| | 71 | - | - | | | | v | v | v | v | v | | v | v | v | v |
| 26dB and 99% Bandwidth | 2 | Covered by Band 25 | | | | | | | | | | | | v | v | v |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | v | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | | | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | | | v | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | | | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | | | v | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | | | v | v | v | v |
| | 71 | - | - | v | v | v | v | v | v | v | | | v | v | v | v |

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Conducted Band Edge | 2 | Covered by Band 25 | | | | | | | | | | | | v | | v |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | | v | v | | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | | v | v | | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | | v | v | | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | | v | v | | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | | v | v | | v |
| | 71 | - | - | v | v | v | v | v | v | v | v | | v | v | | v |
| Conducted Spurious Emission | 2 | Covered by Band 25 | | | | | | | | | | | | v | v | v |
| | 4 | Covered by Band 66 | | | | | | | | | | | | v | v | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | | | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | | | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | | | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| | 71 | - | - | v | v | v | v | v | v | v | v | | | v | v | v |

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Frequency Stability | 2 | Covered by Band 25 | | | | | | | | | | | | | v | |
| | 4 | Covered by Band 66 | | | | | | | | | | | | | v | |
| | 5 | Covered by Band 26 | | | | | | | | | | | | | v | |
| | 7 | - | - | | v | | | v | | | | | v | | v | |
| | 12 | | | | v | - | - | v | | | | | v | | v | |
| | 13 | - | - | | v | - | - | v | | | | | v | | v | |
| | 17 | Covered by Band 12 | | | | | | | | | | | | | v | |
| | 25 | | | | v | | | v | | | | | v | | v | |
| | 26 | | | | v | | - | v | | | | | v | | v | |
| | 38 | - | - | | v | | | v | | | | | v | | v | |
| | 41 | - | - | | v | | | v | | | | | v | | v | |
| | 66 | | | | v | | | v | | | | | v | | v | |
| | 71 | - | - | | v | | | v | | | | | v | | v | |
| E.R.P / E.I.R.P | 2 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 4 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 5 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 7 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 12 | v | v | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 13 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 17 | - | - | v | v | - | - | v | v | v | v | v | v | v | v | v |
| | 25 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v | v |
| | 38 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 66 | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| | 71 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Radiated Spurious Emission | 2 | Covered by Band 25 | | | | | | | | | | | | v | v | v |
| | 4 | Worst Case | | | | | | | | | | | | v | v | v |
| | 5 | Covered by Band 26 | | | | | | | | | | | | v | v | v |
| | 7 | Worst Case | | | | | | | | | | | | v | v | v |
| | 12 | Worst Case | | | | | | | | | | | | v | v | v |
| | 13 | Worst Case | | | | | | | | | | | | v | v | v |
| | 17 | Covered by Band 12 | | | | | | | | | | | | v | v | v |
| | 25 | Worst Case | | | | | | | | | | | | v | v | v |
| | 26 | Worst Case | | | | | | | | | | | | v | v | v |
| | 38 | Worst Case | | | | | | | | | | | | v | v | v |
| | 41 | Worst Case | | | | | | | | | | | | v | v | v |
| | 66 | Worst Case | | | | | | | | | | | | v | v | v |
| | 71 | Worst Case | | | | | | | | | | | | v | v | v |
| Remark | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>4. All the radiated test cases were performed with Adapter 1.<br>5. Wider operating range bandwidth covers narrower one when the power is higher or the same | | | | | | | | | | | | | | | |

| Test Items | Band | Bandwidth (MHz) | | | | | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20+20 | 20+15 | 15+20 | 20+10 | 10+20 | 20+5 | 5+20 | 15+15 | 15+10 | 10+15 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 7_CA | v | v | v | v | v | - | - | v | v | - | v | v | v | v | v | v | v | v | v |
| 26dB and 99% Bandwidth | 7_CA | v | v | v | v | v | - | - | v | v | - | v | v | v | | | v | v | v | v |
| Conducted Band Edge | 7_CA | v | v | v | v | v | - | - | v | v | - | v | v | v | v | | v | v | | v |
| Conducted Spurious Emission | 7_CA | v | v | v | v | v | - | - | v | v | - | v | v | v | v | | | v | v | v |
| E.I.R.P. | 7_CA | v | v | v | v | v | - | - | v | v | - | v | v | v | v | | | v | v | v |
| Radiated Spurious Emission | 7_CA | Worst Case | | | | | | | | | | | | | | | | v | v | v |
| Remark | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>4. All the radiated test cases were performed with Adapter 1. | | | | | | | | | | | | | | | | | | | |

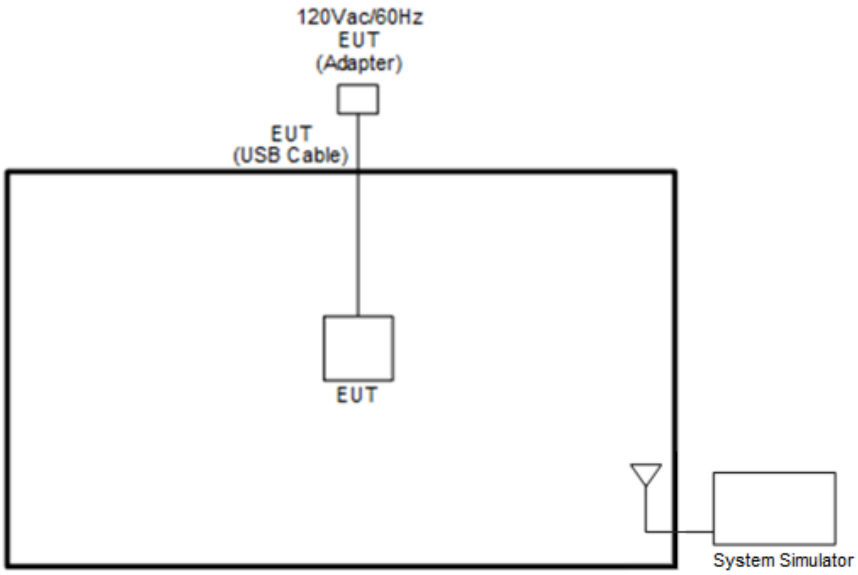
**<For G020Q>**

| Test Items | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| E.I.R.P | 41 | - | - | v | v | v | v | v | v | v | v | v | v | v | v | v |
| Radiated Spurious Emission | 41 | Worst Case | | | | | | | | | | | | v | v | v |
| Remark | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>4. All the radiated test cases were performed with Adapter 1. | | | | | | | | | | | | | | | |

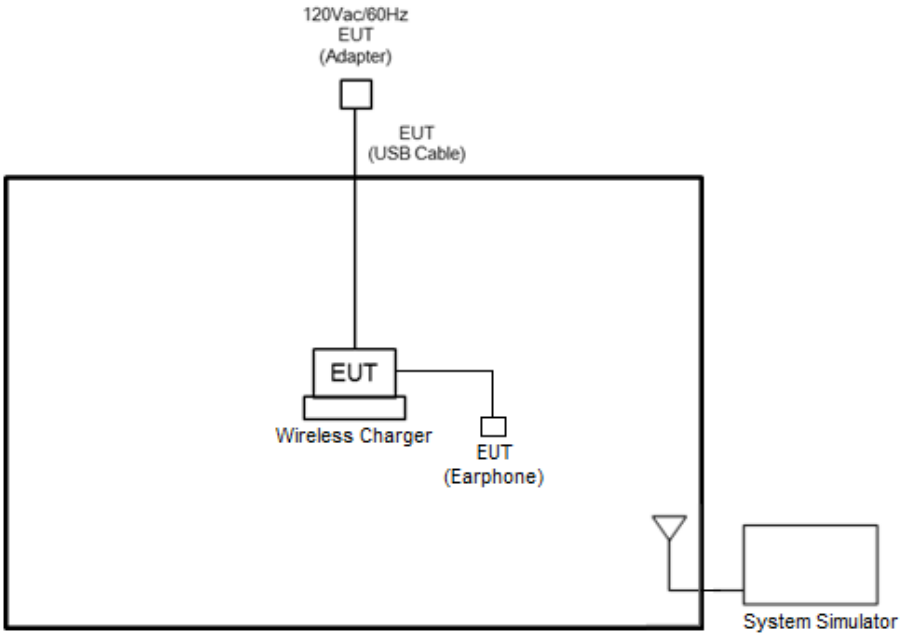
| Test Items | Band | Bandwidth (MHz) | | | | | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 20+20 | 20+15 | 15+20 | 20+10 | 10+20 | 20+5 | 5+20 | 15+15 | 15+10 | 10+15 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 41_CA | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v | v |
| 26dB and 99% Bandwidth | 41_CA | v | v | v | v | v | v | v | v | v | v | v | v | v | | | v | v | v | v |
| Conducted Band Edge | 41_CA | v | v | v | v | v | v | v | v | v | v | v | v | v | v | | v | v | | v |
| Conducted Spurious Emission | 41_CA | v | v | v | v | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| E.I.R.P. | 41_CA | v | v | v | v | v | v | v | v | v | v | v | v | v | v | | | v | v | v |
| Radiated Spurious Emission | 41_CA | Worst Case | | | | | | | | | | | | | | | | v | v | v |
| Remark | 1. The mark "**v** " means that this configuration is chosen for testing<br>2. The mark "-" means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.<br>4. All the radiated test cases were performed with Adapter 1. | | | | | | | | | | | | | | | | | | | |

## 2.2 Connection Diagram of Test System

**<For Adapter Mode>**




**<For WPC Charging Mode>**




## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | LTE Base Station | Anritsu | MT8821C | N/A | N/A | N/A |
| 2. | LTE Base Station | Anritsu | MT8820C | N/A | N/A | N/A |

## 2.4 Measurement Results Explanation Example

**For all conducted test items:**

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

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

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

= 4.2 + 10 = 14.2 (dB)

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

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

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

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

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

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

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

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

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

| LTE Band 26 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 15 | Channel | 26865 | 26915 | 26965 |
| | Frequency | 831.5 | 836.5 | 841.5 |
| 10 | Channel | 26840 | 26915 | 26990 |
| | Frequency | 829.0 | 836.5 | 844.0 |
| 5 | Channel | 26815 | 26915 | 27015 |
| | Frequency | 826.5 | 836.5 | 846.5 |
| 3 | Channel | 26805 | 26915 | 27025 |
| | Frequency | 825.5 | 836.5 | 847.5 |
| 1.4 | Channel | 26797 | 26915 | 27033 |
| | Frequency | 824.7 | 836.5 | 848.3 |

| LTE Band 38 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 20 | Channel | 37850 | 38000 | 38150 |
| | Frequency | 2580.0 | 2595.0 | 2610.0 |
| 15 | Channel | 37825 | 38000 | 38175 |
| | Frequency | 2577.5 | 2595.0 | 2612.5 |
| 10 | Channel | 37800 | 38000 | 38200 |
| | Frequency | 2575.0 | 2595.0 | 2615.0 |
| 5 | Channel | 37775 | 38000 | 38225 |
| | Frequency | 2572.5 | 2595.0 | 2617.5 |

| LTE Band 41 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 20 | Channel | 39750 | 40620 | 41490 |
| | Frequency | 2506.0 | 2593.0 | 2680.0 |
| 15 | Channel | 39725 | 40620 | 41515 |
| | Frequency | 2503.5 | 2593.0 | 2682.5 |
| 10 | Channel | 39700 | 40620 | 41540 |
| | Frequency | 2501.0 | 2593.0 | 2685.0 |
| 5 | Channel | 39675 | 40620 | 41565 |
| | Frequency | 2498.5 | 2593.0 | 2687.5 |

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

| LTE Band 71 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 20 | Channel | 133222 | 133297 | 133372 |
| | Frequency | 673 | 680.5 | 688 |
| 15 | Channel | 133197 | 133297 | 133397 |
| | Frequency | 670.5 | 680.5 | 690.5 |
| 10 | Channel | 133172 | 133297 | 133422 |
| | Frequency | 668 | 680.5 | 693 |
| 5 | Channel | 133147 | 133297 | 133447 |
| | Frequency | 665.5 | 680.5 | 695.5 |

| LTE Band 7 Channel and Frequency List_CA | | | | | |
|---|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | | Lowest | Middle | Highest |
| 20 + 20 | PCC | Channel | 20850 | 21001 | 21152 |
| | | Frequency | 2510.0 | 2525.1 | 2540.2 |
| | SCC | Channel | 21048 | 21199 | 21350 |
| | | Frequency | 2529.8 | 2544.9 | 2560.0 |
| 20 + 15 | PCC | Channel | 20850 | 21026 | 21201 |
| | | Frequency | 2510.0 | 2527.6 | 2545.1 |
| | SCC | Channel | 21021 | 21197 | 21372 |
| | | Frequency | 2527.1 | 2544.7 | 2562.2 |
| 15 + 20 | PCC | Channel | 20828 | 21003 | 21179 |
| | | Frequency | 2507.8 | 2525.3 | 2542.9 |
| | SCC | Channel | 20999 | 21174 | 21350 |
| | | Frequency | 2524.9 | 2542.4 | 2560.0 |
| 20 + 10 | PCC | Channel | 20850 | 21051 | 21251 |
| | | Frequency | 2510.0 | 2530.1 | 2550.1 |
| | SCC | Channel | 20994 | 21195 | 21395 |
| | | Frequency | 2524.4 | 2544.5 | 2564.5 |
| 10 + 20 | PCC | Channel | 20805 | 21006 | 21206 |
| | | Frequency | 2505.5 | 2525.6 | 2545.6 |
| | SCC | Channel | 20949 | 21150 | 21350 |
| | | Frequency | 2519.9 | 2540.0 | 2560.0 |
| 15 + 15 | PCC | Channel | 20825 | 21025 | 21225 |
| | | Frequency | 2507.5 | 2527.5 | 2547.5 |
| | SCC | Channel | 20975 | 21175 | 21375 |
| | | Frequency | 2522.5 | 2542.5 | 2562.5 |
| 15 + 10 | PCC | Channel | 20825 | 21051 | 21277 |
| | | Frequency | 2507.5 | 2530.1 | 2552.7 |
| | SCC | Channel | 20945 | 21171 | 21397 |
| | | Frequency | 2519.5 | 2542.1 | 2564.7 |

| LTE Band 41 Channel and Frequency List_CA | | | | | |
|---|---|---|---|---|---|
| BW [MHz] | Channel/Frequency(MHz) | | Lowest | Middle | Highest |
| 20 + 20 | PCC | Channel | 39750 | 40521 | 41292 |
| | | Frequency | 2506.0 | 2583.1 | 2660.2 |
| | SCC | Channel | 39948 | 40719 | 41490 |
| | | Frequency | 2525.8 | 2602.9 | 2680.0 |
| 20 + 15 | PCC | Channel | 39750 | 40546 | 41341 |
| | | Frequency | 2506.0 | 2585.6 | 2665.1 |
| | SCC | Channel | 39921 | 40717 | 41512 |
| | | Frequency | 2523.1 | 2602.7 | 2682.2 |
| 15 + 20 | PCC | Channel | 39728 | 40523 | 41319 |
| | | Frequency | 2503.8 | 2593.3 | 2662.9 |
| | SCC | Channel | 39899 | 40694 | 41490 |
| | | Frequency | 2520.9 | 2600.4 | 2680.0 |
| 20 + 10 | PCC | Channel | 39750 | 40571 | 41391 |
| | | Frequency | 2506.0 | 2588.1 | 2670.1 |
| | SCC | Channel | 39894 | 40715 | 41535 |
| | | Frequency | 2520.4 | 2602.5 | 2684.5 |
| 10 + 20 | PCC | Channel | 39705 | 40526 | 41346 |
| | | Frequency | 2501.5 | 2583.6 | 2665.6 |
| | SCC | Channel | 39849 | 40670 | 41490 |
| | | Frequency | 2515.9 | 2598.0 | 2680.0 |
| 20 + 5 | PCC | Channel | 39750 | 40595 | 41440 |
| | | Frequency | 2506.0 | 2590.5 | 2675.0 |
| | SCC | Channel | 39867 | 40712 | 41557 |
| | | Frequency | 2517.7 | 2602.2 | 2686.7 |
| 5 + 20 | PCC | Channel | 39683 | 40528 | 41373 |
| | | Frequency | 2499.3 | 2583.8 | 2668.3 |
| | SCC | Channel | 39800 | 40645 | 41490 |
| | | Frequency | 2511.0 | 2595.5 | 2680.0 |

| LTE Band 41 Channel and Frequency List_CA | | | | | |
|---|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | | **Lowest** | **Middle** | **Highest** |
| 15 + 10 | PCC | Channel | 39725 | 40571 | 41417 |
| | | Frequency | 2503.5 | 2588.1 | 2672.7 |
| | SCC | Channel | 39845 | 40691 | 41537 |
| | | Frequency | 2515.5 | 2600.1 | 2684.7 |
| 10 + 15 | PCC | Channel | 39703 | 40549 | 41395 |
| | | Frequency | 2501.3 | 2585.9 | 2670.5 |
| | SCC | Channel | 39823 | 40669 | 41515 |
| | | Frequency | 2513.3 | 2597.9 | 2682.5 |
| 15 + 15 | PCC | Channel | 39725 | 40545 | 41365 |
| | | Frequency | 2503.5 | 2585.5 | 2667.5 |
| | SCC | Channel | 39875 | 40695 | 41515 |
| | | Frequency | 2518.5 | 2600.5 | 2682.5 |

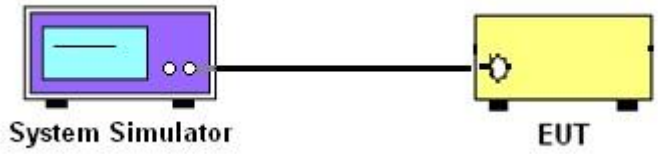
# 3 Conducted Test Items

## 3.1 Measuring Instruments

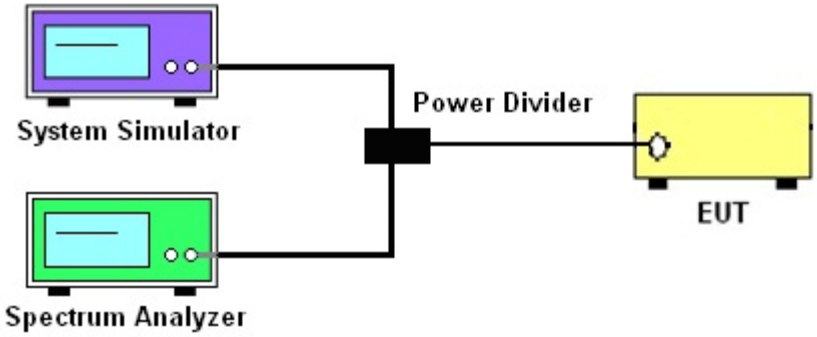
See list of measuring instruments of this test report.

### 3.1.1 Test Setup

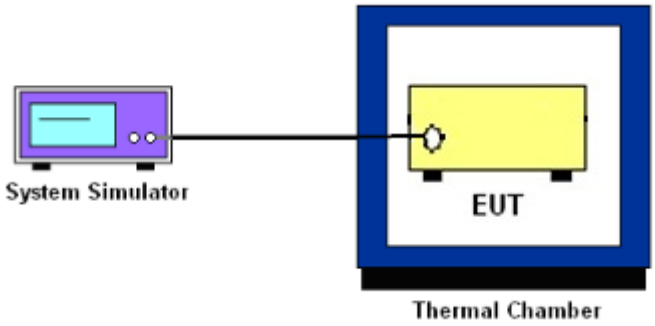
### 3.1.2 Conducted Output Power




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




### 3.1.4 Frequency Stability




### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

# 3.2 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41.

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

According to KDB 412172 D01 Power Approach,

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

$P_T$ = transmitter output power in dBm

$G_T$ = gain of the transmitting antenna in dBi

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

## 3.2.2 Test Procedures

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

# 3.3 Peak-to-Average Ratio

## 3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

## 3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

# 3.4 Occupied Bandwidth

## 3.4.1 Description of Occupied Bandwidth Measurement

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

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

## 3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

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

# 3.5 Conducted Band Edge

## 3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

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

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

### 3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
8. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

# 3.6 Conducted Spurious Emission

## 3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7, 38, 41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its $10^{th}$ harmonic.

## 3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
10. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

# 3.7 Frequency Stability

## 3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

## 3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

## 3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

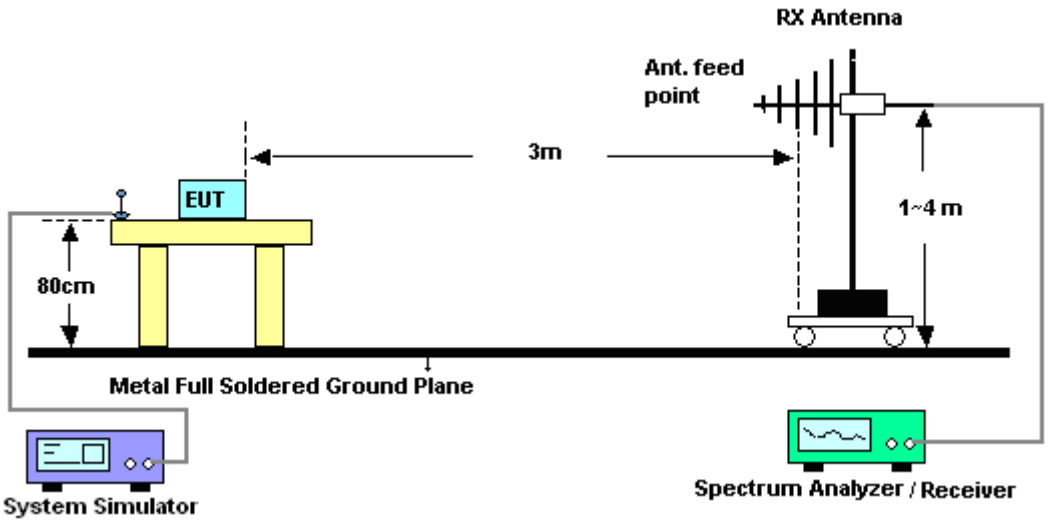
# 4 Radiated Test Items

## 4.1 Measuring Instruments

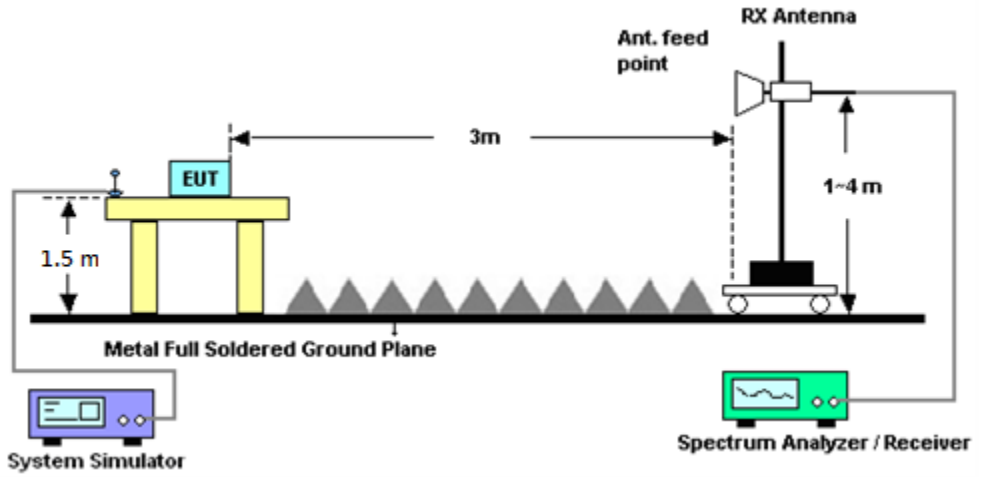
See list of measuring instruments of this test report.

### 4.1.1 Test Setup

**For radiated test from 30MHz to 1GHz**




**For radiated test above 1GHz**




### 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

## 4.2 Radiated Spurious Emission Measurement

### 4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7, 38, 41

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

For LTE Band 13

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

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

### 4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
11. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
    ERP (dBm) = EIRP - 2.15

# 5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| **<Radiated Spurious Emission for G020P>** | | | | | | | | |
| Bilog Antenna | Schaffner | CBL6111C&N-6-06 | 2725&AT-N0601 | 30MHz~1GHz | Jan. 10, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Jan. 09, 2020 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Dec. 02, 2018 | May 28, 2019 ~ Jun. 14, 2019 | Dec. 03, 2019 | Radiation (03CH07-HY) |
| EMI Test Receiver | Agilent | N9038A(MXE) | MY53290053 | 20Hz to 26.5GHz | Jan. 23, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Jan. 22, 2020 | Radiation (03CH07-HY) |
| Preamplifier | COM-POWER | PA-103A | 161241 | 10MHz-1GHz | May 20, 2019 | May 28, 2019 ~ Jun. 14, 2019 | May 19, 2020 | Radiation (03CH07-HY) |
| Preamplifier | Agilent | 8449B | 3008A02362 | 1GHz~ 26.5GHz | Nov. 02, 2018 | May 28, 2019 ~ Jun. 14, 2019 | Nov. 01, 2019 | Radiation (03CH07-HY) |
| Filter | Microwave | H1G013G1 | SN477215 | 1.0G High Pass | Nov. 02, 2018 | May 28, 2019 ~ Jun. 14, 2019 | Nov. 01, 2019 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4, MY24971/4, MY15682/4 | 30MHz~1GHz | Feb. 26, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Feb. 25, 2020 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4, MY24971/4, MY15682/4 | 1GHz~18GHz | Feb. 26, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Feb. 25, 2020 | Radiation (03CH07-HY) |
| Antenna Mast | Max-Full | MFA520BS | N/A | 1m~4m | N/A | May 28, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Turn Table | ChainTek | Chaintek 3000 | N/A | 0~360 Degree | N/A | May 28, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Horn Antenna | ESCO | 3117 | 00143261 | 1GHz~18GHz | Jan. 07, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Jan. 06, 2020 | Radiation (03CH07-HY) |
| Software | Audix | E3 6.2009-8-24 | 80504004656H | N/A | N/A | May 28, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Signal Generator | Anritsu | MG3694C | 163401 | 0.1Hz~40GHz | Jan. 21, 2019 | May 28, 2019 ~ Jun. 14, 2019 | Jan. 20, 2020 | Radiation (03CH07-HY) |

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| **<Radiated Spurious Emission for G020Q>** | | | | | | | | |
| Bilog Antenna | Schaffner | CBL6111C&N-6-06 | 2725&AT-N0601 | 30MHz~1GHz | Jan. 10, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | Jan. 09, 2020 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Dec. 02, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | Dec. 03, 2019 | Radiation (03CH07-HY) |
| EMI Test Receiver | Agilent | N9038A(MXE) | MY53290053 | 20Hz to 26.5GHz | Jan. 23, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | Jan. 22, 2020 | Radiation (03CH07-HY) |
| Preamplifier | COM-POWER | PA-103A | 161241 | 10MHz-1GHz | May 20, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | May 19, 2020 | Radiation (03CH07-HY) |
| Preamplifier | Agilent | 8449B | 3008A02362 | 1GHz~ 26.5GHz | Nov. 02, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | Nov. 01, 2019 | Radiation (03CH07-HY) |
| Filter | Microwave | H1G013G1 | SN477215 | 1.0G High Pass | Nov. 02, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | Nov. 01, 2019 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4, MY24971/4, MY15682/4 | 30MHz~1GHz | Feb. 26, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | Feb. 25, 2020 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4, MY24971/4, MY15682/4 | 1GHz~18GHz | Feb. 26, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | Feb. 25, 2020 | Radiation (03CH07-HY) |
| Antenna Mast | Max-Full | MFA520BS | N/A | 1m~4m | N/A | Jun. 06, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Turn Table | ChainTek | Chaintek 3000 | N/A | 0~360 Degree | N/A | Jun. 06, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Horn Antenna | ESCO | 3117 | 00143261 | 1GHz~18GHz | Jan. 07, 2019 | Jun. 06, 2019 ~ Jun. 14, 2019 | Jan. 06, 2020 | Radiation (03CH07-HY) |
| Software | Audix | E3 6.2009-8-24 | 80504004656H | N/A | N/A | Jun. 06, 2019 ~ Jun. 14, 2019 | N/A | Radiation (03CH07-HY) |
| Preamplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz, VSWR : 2.5:1 max | Jul. 16, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | Jul. 15, 2019 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 18GHz~40GHz | Nov. 20, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | Nov. 19, 2019 | Radiation (03CH07-HY) |
| Signal Generator | Rohde & Schwarz | SMF100A | 101107 | 100kHz~40GHz | May 22, 2018 | Jun. 06, 2019 ~ Jun. 14, 2019 | May 21, 2019 | Radiation (03CH07-HY) |

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Base Station (Measure) | Anritsu | MT8821C | 6201664755 | GSM / GPRS /WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA | Mar. 03, 2019 | Apr. 26, 2019 ~ Jun. 18, 2019 | Mar. 02, 2020 | Conducted (TH05-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101397 | 10Hz~40GHz | Nov. 13, 2018 | Apr. 26, 2019 ~ Jun. 18, 2019 | Nov. 12, 2019 | Conducted (TH05-HY) |
| Temperature Chamber | ESPEC | SH-641 | 92013720 | -40℃~90℃ | Aug. 29, 2018 | Apr. 26, 2019 ~ Jun. 18, 2019 | Aug. 28, 2019 | Conducted (TH05-HY) |
| Programmable Power Supply | GW Instek | PSS-2005 | EL890094 | 1V~20V 0.5A~5A | Oct. 02, 2018 | Apr. 26, 2019 ~ Jun. 18, 2019 | Oct. 01, 2019 | Conducted (TH05-HY) |
| Coupler | Warison | 20dB 25W SMA Directional Coupler | #A | 1-18GHz | Jan. 14, 2019 | Apr. 26, 2019 ~ Jun. 18, 2019 | Jan. 13, 2020 | Conducted (TH05-HY) |

# 6 Uncertainty of Evaluation

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.05** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.44** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.95** |

# Appendix A. Test Results of Conducted Test

## Conducted Output Power(Average power) for G020P

| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.39 | 24.39 | **24.43** |
| 20 | 1 | 49 | | 24.27 | 24.32 | 24.31 |
| 20 | 1 | 99 | | 24.29 | 24.31 | 24.36 |
| 20 | 50 | 0 | | 23.43 | 23.45 | 23.47 |
| 20 | 50 | 24 | | 23.46 | 23.47 | 23.50 |
| 20 | 50 | 50 | | 23.49 | 23.52 | 23.54 |
| 20 | 100 | 0 | | 23.47 | 23.50 | 23.47 |
| 20 | 1 | 0 | 16-QAM | 23.65 | 23.64 | 23.61 |
| 20 | 1 | 49 | | 23.49 | 23.59 | 23.58 |
| 20 | 1 | 99 | | 23.52 | 23.56 | 23.68 |
| 20 | 50 | 0 | | 22.43 | 22.47 | 22.46 |
| 20 | 50 | 24 | | 22.43 | 22.48 | 22.51 |
| 20 | 50 | 50 | | 22.46 | 22.52 | 22.56 |
| 20 | 100 | 0 | | 22.45 | 22.48 | 22.49 |
| 20 | 1 | 0 | 64-QAM | 22.59 | 22.59 | 22.55 |
| 20 | 1 | 49 | | 22.44 | 22.51 | 22.59 |
| 20 | 1 | 99 | | 22.45 | 22.49 | 22.61 |
| 20 | 50 | 0 | | 21.46 | 21.49 | 21.47 |
| 20 | 50 | 24 | | 21.47 | 21.49 | 21.52 |
| 20 | 50 | 50 | | 21.47 | 21.53 | 21.57 |
| 20 | 100 | 0 | | 21.45 | 21.50 | 21.48 |
| 15 | 1 | 0 | QPSK | 24.42 | 24.42 | 24.40 |
| 15 | 1 | 37 | | 24.33 | 24.38 | 24.34 |
| 15 | 1 | 74 | | 24.38 | 24.40 | 24.38 |
| 15 | 36 | 0 | | 23.44 | 23.49 | 23.46 |
| 15 | 36 | 20 | | 23.47 | 23.52 | 23.50 |
| 15 | 36 | 39 | | 23.49 | 23.54 | 23.51 |
| 15 | 75 | 0 | | 23.49 | 23.50 | 23.52 |
| 15 | 1 | 0 | 16-QAM | 23.66 | 23.69 | 23.62 |
| 15 | 1 | 37 | | 23.54 | 23.63 | 23.60 |
| 15 | 1 | 74 | | 23.60 | 23.62 | 23.64 |
| 15 | 36 | 0 | | 22.46 | 22.50 | 22.47 |
| 15 | 36 | 20 | | 22.45 | 22.51 | 22.53 |
| 15 | 36 | 39 | | 22.48 | 22.51 | 22.52 |
| 15 | 75 | 0 | | 22.45 | 22.51 | 22.51 |
| 15 | 1 | 0 | 64-QAM | 22.63 | 22.66 | 22.55 |
| 15 | 1 | 37 | | 22.44 | 22.61 | 22.62 |
| 15 | 1 | 74 | | 22.57 | 22.56 | 22.55 |
| 15 | 36 | 0 | | 21.47 | 21.55 | 21.50 |
| 15 | 36 | 20 | | 21.50 | 21.58 | 21.54 |
| 15 | 36 | 39 | | 21.48 | 21.56 | 21.56 |
| 15 | 75 | 0 | | 21.47 | 21.54 | 21.50 |

| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.29 | 24.27 | 24.40 |
| 10 | 1 | 25 | | 24.30 | 24.27 | 24.31 |
| 10 | 1 | 49 | | 24.28 | 24.32 | 24.33 |
| 10 | 25 | 0 | | 23.40 | 23.38 | 23.41 |
| 10 | 25 | 12 | | 23.42 | 23.42 | 23.42 |
| 10 | 25 | 25 | | 23.36 | 23.38 | 23.39 |
| 10 | 50 | 0 | | 23.38 | 23.40 | 23.40 |
| 10 | 1 | 0 | 16-QAM | 23.46 | 23.54 | 23.64 |
| 10 | 1 | 25 | | 23.52 | 23.59 | 23.57 |
| 10 | 1 | 49 | | 23.45 | 23.56 | 23.58 |
| 10 | 25 | 0 | | 22.42 | 22.40 | 22.41 |
| 10 | 25 | 12 | | 22.41 | 22.42 | 22.46 |
| 10 | 25 | 25 | | 22.33 | 22.37 | 22.40 |
| 10 | 50 | 0 | | 22.37 | 22.41 | 22.39 |
| 10 | 1 | 0 | 64-QAM | 22.44 | 22.46 | 22.60 |
| 10 | 1 | 25 | | 22.48 | 22.52 | 22.52 |
| 10 | 1 | 49 | | 22.42 | 22.50 | 22.50 |
| 10 | 25 | 0 | | 21.42 | 21.42 | 21.43 |
| 10 | 25 | 12 | | 21.41 | 21.44 | 21.47 |
| 10 | 25 | 25 | | 21.33 | 21.38 | 21.40 |
| 10 | 50 | 0 | | 21.39 | 21.40 | 21.44 |
| 5 | 1 | 0 | QPSK | 24.31 | 24.22 | 24.21 |
| 5 | 1 | 12 | | 24.32 | 24.32 | 24.33 |
| 5 | 1 | 24 | | 24.33 | 24.31 | 24.34 |
| 5 | 12 | 0 | | 23.42 | 23.33 | 23.36 |
| 5 | 12 | 7 | | 23.48 | 23.48 | 23.40 |
| 5 | 12 | 13 | | 23.43 | 23.41 | 23.45 |
| 5 | 25 | 0 | | 23.41 | 23.33 | 23.36 |
| 5 | 1 | 0 | 16-QAM | 23.53 | 23.47 | 23.46 |
| 5 | 1 | 12 | | 23.55 | 23.56 | 23.56 |
| 5 | 1 | 24 | | 23.49 | 23.56 | 23.54 |
| 5 | 12 | 0 | | 22.40 | 22.35 | 22.37 |
| 5 | 12 | 7 | | 22.46 | 22.48 | 22.38 |
| 5 | 12 | 13 | | 22.42 | 22.42 | 22.44 |
| 5 | 25 | 0 | | 22.40 | 22.36 | 22.38 |
| 5 | 1 | 0 | 64-QAM | 22.49 | 22.46 | 22.48 |
| 5 | 1 | 12 | | 22.47 | 22.50 | 22.53 |
| 5 | 1 | 24 | | 22.45 | 22.49 | 22.53 |
| 5 | 12 | 0 | | 21.45 | 21.43 | 21.41 |
| 5 | 12 | 7 | | 21.47 | 21.53 | 21.43 |
| 5 | 12 | 13 | | 21.48 | 21.45 | 21.49 |
| 5 | 25 | 0 | | 21.42 | 21.37 | 21.36 |

| LTE Band 2 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.34 | 24.21 | 24.34 |
| 3 | 1 | 8 | | 24.42 | 24.39 | 24.42 |
| 3 | 1 | 14 | | 24.36 | 24.35 | 24.38 |
| 3 | 8 | 0 | | 23.42 | 23.31 | 23.38 |
| 3 | 8 | 4 | | 23.46 | 23.44 | 23.43 |
| 3 | 8 | 7 | | 23.46 | 23.47 | 23.42 |
| 3 | 15 | 0 | | 23.48 | 23.36 | 23.47 |
| 3 | 1 | 0 | 16-QAM | 23.52 | 23.46 | 23.53 |
| 3 | 1 | 8 | | 23.62 | 23.63 | 23.63 |
| 3 | 1 | 14 | | 23.59 | 23.56 | 23.57 |
| 3 | 8 | 0 | | 22.44 | 22.39 | 22.48 |
| 3 | 8 | 4 | | 22.47 | 22.48 | 22.46 |
| 3 | 8 | 7 | | 22.48 | 22.49 | 22.46 |
| 3 | 15 | 0 | | 22.44 | 22.38 | 22.46 |
| 3 | 1 | 0 | 64-QAM | 22.50 | 22.48 | 22.47 |
| 3 | 1 | 8 | | 22.59 | 22.59 | 22.60 |
| 3 | 1 | 14 | | 22.54 | 22.55 | 22.58 |
| 3 | 8 | 0 | | 21.40 | 21.40 | 21.46 |
| 3 | 8 | 4 | | 21.50 | 21.46 | 21.45 |
| 3 | 8 | 7 | | 21.45 | 21.44 | 21.47 |
| 3 | 15 | 0 | | 21.45 | 21.42 | 21.45 |
| 1.4 | 1 | 0 | QPSK | 24.23 | 24.22 | 24.26 |
| 1.4 | 1 | 3 | | 24.35 | 24.36 | 24.36 |
| 1.4 | 1 | 5 | | 24.29 | 24.27 | 24.28 |
| 1.4 | 3 | 0 | | 24.27 | 24.24 | 24.27 |
| 1.4 | 3 | 1 | | 24.36 | 24.33 | 24.31 |
| 1.4 | 3 | 3 | | 24.33 | 24.30 | 24.29 |
| 1.4 | 6 | 0 | | 23.37 | 23.37 | 23.33 |
| 1.4 | 1 | 0 | 16-QAM | 23.43 | 23.46 | 23.50 |
| 1.4 | 1 | 3 | | 23.57 | 23.57 | 23.59 |
| 1.4 | 1 | 5 | | 23.52 | 23.53 | 23.54 |
| 1.4 | 3 | 0 | | 23.29 | 23.28 | 23.29 |
| 1.4 | 3 | 1 | | 23.35 | 23.36 | 23.33 |
| 1.4 | 3 | 3 | | 23.31 | 23.29 | 23.31 |
| 1.4 | 6 | 0 | | 22.42 | 22.39 | 22.40 |
| 1.4 | 1 | 0 | 64-QAM | 22.43 | 22.48 | 22.44 |
| 1.4 | 1 | 3 | | 22.52 | 22.55 | 22.56 |
| 1.4 | 1 | 5 | | 22.47 | 22.47 | 22.46 |
| 1.4 | 3 | 0 | | 22.42 | 22.47 | 22.43 |
| 1.4 | 3 | 1 | | 22.48 | 22.48 | 22.47 |
| 1.4 | 3 | 3 | | 22.47 | 22.47 | 22.46 |
| 1.4 | 6 | 0 | | 21.35 | 21.37 | 21.34 |

| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.58 | **24.60** | 24.56 |
| 20 | 1 | 49 | | 24.45 | 24.52 | 24.47 |
| 20 | 1 | 99 | | 24.42 | 24.50 | 23.34 |
| 20 | 50 | 0 | | 23.58 | 23.65 | 23.58 |
| 20 | 50 | 24 | | 23.60 | 23.62 | 23.60 |
| 20 | 50 | 50 | | 23.60 | 23.65 | 23.23 |
| 20 | 100 | 0 | | 23.60 | 23.60 | 23.37 |
| 20 | 1 | 0 | 16-QAM | 23.83 | 23.83 | 23.81 |
| 20 | 1 | 49 | | 23.72 | 23.82 | 23.81 |
| 20 | 1 | 99 | | 23.70 | 23.76 | 22.64 |
| 20 | 50 | 0 | | 22.58 | 22.63 | 22.59 |
| 20 | 50 | 24 | | 22.60 | 22.68 | 22.62 |
| 20 | 50 | 50 | | 22.60 | 22.66 | 22.27 |
| 20 | 100 | 0 | | 22.56 | 22.59 | 22.40 |
| 20 | 1 | 0 | 64-QAM | 22.02 | 22.27 | 22.16 |
| 20 | 1 | 49 | | 22.07 | 22.26 | 21.77 |
| 20 | 1 | 99 | | 22.08 | 22.36 | 21.00 |
| 20 | 50 | 0 | | 20.82 | 21.10 | 20.73 |
| 20 | 50 | 24 | | 21.11 | 21.22 | 20.62 |
| 20 | 50 | 50 | | 21.18 | 21.23 | 20.32 |
| 20 | 100 | 0 | | 21.05 | 21.14 | 20.46 |
| 15 | 1 | 0 | QPSK | 24.50 | 24.59 | 24.56 |
| 15 | 1 | 37 | | 24.48 | 24.56 | 24.36 |
| 15 | 1 | 74 | | 24.53 | 24.53 | 23.56 |
| 15 | 36 | 0 | | 23.60 | 23.61 | 23.58 |
| 15 | 36 | 20 | | 23.63 | 23.66 | 23.41 |
| 15 | 36 | 39 | | 23.59 | 23.63 | 23.12 |
| 15 | 75 | 0 | | 23.59 | 23.65 | 23.37 |
| 15 | 1 | 0 | 16-QAM | 23.77 | 23.89 | 23.85 |
| 15 | 1 | 37 | | 23.72 | 23.78 | 23.65 |
| 15 | 1 | 74 | | 23.77 | 23.77 | 22.86 |
| 15 | 36 | 0 | | 22.61 | 22.64 | 22.61 |
| 15 | 36 | 20 | | 22.65 | 22.68 | 22.42 |
| 15 | 36 | 39 | | 22.60 | 22.67 | 22.18 |
| 15 | 75 | 0 | | 22.59 | 22.67 | 22.40 |
| 15 | 1 | 0 | 64-QAM | 21.83 | 22.15 | 21.93 |
| 15 | 1 | 37 | | 22.15 | 22.40 | 21.60 |
| 15 | 1 | 74 | | 22.00 | 22.40 | 21.00 |
| 15 | 36 | 0 | | 20.96 | 21.07 | 20.63 |
| 15 | 36 | 20 | | 21.19 | 21.35 | 20.44 |
| 15 | 36 | 39 | | 21.16 | 21.39 | 20.30 |
| 15 | 75 | 0 | | 21.02 | 21.23 | 20.39 |

| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.33 | 24.38 | 24.36 |
| 10 | 1 | 25 | | 24.33 | 24.34 | 24.25 |
| 10 | 1 | 49 | | 24.30 | 24.35 | 23.60 |
| 10 | 25 | 0 | | 23.44 | 23.46 | 23.41 |
| 10 | 25 | 12 | | 23.43 | 23.48 | 23.38 |
| 10 | 25 | 25 | | 23.42 | 23.47 | 23.00 |
| 10 | 50 | 0 | | 23.42 | 23.46 | 23.25 |
| 10 | 1 | 0 | 16-QAM | 23.65 | 23.64 | 23.65 |
| 10 | 1 | 25 | | 23.54 | 23.64 | 23.52 |
| 10 | 1 | 49 | | 23.56 | 23.61 | 22.89 |
| 10 | 25 | 0 | | 22.43 | 22.47 | 22.44 |
| 10 | 25 | 12 | | 22.46 | 22.49 | 22.44 |
| 10 | 25 | 25 | | 22.45 | 22.49 | 22.07 |
| 10 | 50 | 0 | | 22.44 | 22.48 | 22.31 |
| 10 | 1 | 0 | 64-QAM | 21.80 | 21.72 | 21.82 |
| 10 | 1 | 25 | | 22.24 | 22.15 | 21.59 |
| 10 | 1 | 49 | | 22.19 | 22.55 | 21.00 |
| 10 | 25 | 0 | | 20.93 | 20.78 | 20.52 |
| 10 | 25 | 12 | | 21.10 | 21.08 | 20.54 |
| 10 | 25 | 25 | | 21.10 | 21.39 | 20.22 |
| 10 | 50 | 0 | | 21.02 | 21.12 | 20.42 |
| 5 | 1 | 0 | QPSK | 24.35 | 24.27 | 23.89 |
| 5 | 1 | 12 | | 24.39 | 24.42 | 23.42 |
| 5 | 1 | 24 | | 24.43 | 24.48 | 23.13 |
| 5 | 12 | 0 | | 23.46 | 23.38 | 22.76 |
| 5 | 12 | 7 | | 23.54 | 23.53 | 22.56 |
| 5 | 12 | 13 | | 23.48 | 23.54 | 22.38 |
| 5 | 25 | 0 | | 23.47 | 23.40 | 22.53 |
| 5 | 1 | 0 | 16-QAM | 23.60 | 23.60 | 23.14 |
| 5 | 1 | 12 | | 23.67 | 23.72 | 22.69 |
| 5 | 1 | 24 | | 23.71 | 23.73 | 22.37 |
| 5 | 12 | 0 | | 22.44 | 22.46 | 21.79 |
| 5 | 12 | 7 | | 22.56 | 22.58 | 21.61 |
| 5 | 12 | 13 | | 22.52 | 22.52 | 21.43 |
| 5 | 25 | 0 | | 22.48 | 22.47 | 21.63 |
| 5 | 1 | 0 | 64-QAM | 21.89 | 21.94 | 21.16 |
| 5 | 1 | 12 | | 22.15 | 22.40 | 21.00 |
| 5 | 1 | 24 | | 22.26 | 22.49 | 21.10 |
| 5 | 12 | 0 | | 21.05 | 21.03 | 21.50 |
| 5 | 12 | 7 | | 21.19 | 21.27 | 21.03 |
| 5 | 12 | 13 | | 21.23 | 21.38 | 21.04 |
| 5 | 25 | 0 | | 21.07 | 21.16 | 21.19 |

| LTE Band 25 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.33 | 24.29 | 23.40 |
| 3 | 1 | 8 | | 24.49 | 24.48 | 23.20 |
| 3 | 1 | 14 | | 24.38 | 24.42 | 23.03 |
| 3 | 8 | 0 | | 23.47 | 23.43 | 22.44 |
| 3 | 8 | 4 | | 23.50 | 23.53 | 22.38 |
| 3 | 8 | 7 | | 23.48 | 23.49 | 22.29 |
| 3 | 15 | 0 | | 23.49 | 23.43 | 22.35 |
| 3 | 1 | 0 | 16-QAM | 23.55 | 23.50 | 22.66 |
| 3 | 1 | 8 | | 23.69 | 23.76 | 22.56 |
| 3 | 1 | 14 | | 23.61 | 23.67 | 22.38 |
| 3 | 8 | 0 | | 22.48 | 22.48 | 21.50 |
| 3 | 8 | 4 | | 22.59 | 22.59 | 21.31 |
| 3 | 8 | 7 | | 22.51 | 22.57 | 21.22 |
| 3 | 15 | 0 | | 22.49 | 22.47 | 21.42 |
| 3 | 1 | 0 | 64-QAM | 21.90 | 22.06 | 21.01 |
| 3 | 1 | 8 | | 22.20 | 22.47 | 21.03 |
| 3 | 1 | 14 | | 22.19 | 22.50 | 21.02 |
| 3 | 8 | 0 | | 20.98 | 21.18 | 21.00 |
| 3 | 8 | 4 | | 21.10 | 21.30 | 21.01 |
| 3 | 8 | 7 | | 21.12 | 21.34 | 21.05 |
| 3 | 15 | 0 | | 21.02 | 21.19 | 21.00 |
| 1.4 | 1 | 0 | QPSK | 24.32 | 24.33 | 23.10 |
| 1.4 | 1 | 3 | | 24.41 | 24.42 | 23.14 |
| 1.4 | 1 | 5 | | 24.31 | 24.33 | 23.05 |
| 1.4 | 3 | 0 | | 24.36 | 24.35 | 23.09 |
| 1.4 | 3 | 1 | | 24.40 | 24.39 | 23.17 |
| 1.4 | 3 | 3 | | 24.32 | 24.39 | 23.11 |
| 1.4 | 6 | 0 | | 23.40 | 23.39 | 22.17 |
| 1.4 | 1 | 0 | 16-QAM | 23.57 | 23.56 | 22.41 |
| 1.4 | 1 | 3 | | 23.64 | 23.69 | 22.46 |
| 1.4 | 1 | 5 | | 23.57 | 23.56 | 22.38 |
| 1.4 | 3 | 0 | | 23.38 | 23.38 | 22.23 |
| 1.4 | 3 | 1 | | 23.39 | 23.45 | 22.25 |
| 1.4 | 3 | 3 | | 23.37 | 23.43 | 22.15 |
| 1.4 | 6 | 0 | | 22.49 | 22.49 | 21.31 |
| 1.4 | 1 | 0 | 64-QAM | 21.91 | 22.10 | 21.56 |
| 1.4 | 1 | 3 | | 22.05 | 22.25 | 21.21 |
| 1.4 | 1 | 5 | | 22.01 | 22.25 | 21.23 |
| 1.4 | 3 | 0 | | 21.95 | 22.12 | 21.10 |
| 1.4 | 3 | 1 | | 21.97 | 22.25 | 21.69 |
| 1.4 | 3 | 3 | | 21.94 | 22.20 | 21.15 |
| 1.4 | 6 | 0 | | 20.88 | 21.04 | 21.00 |

| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.41 | 24.42 | **24.43** |
| 20 | 1 | 49 | | 24.33 | 24.31 | 24.35 |
| 20 | 1 | 99 | | 24.31 | 24.30 | 24.33 |
| 20 | 50 | 0 | | 23.47 | 23.48 | 23.50 |
| 20 | 50 | 24 | | 23.44 | 23.46 | 23.47 |
| 20 | 50 | 50 | | 23.45 | 23.42 | 23.49 |
| 20 | 100 | 0 | | 23.47 | 23.46 | 23.51 |
| 20 | 1 | 0 | 16-QAM | 23.72 | 23.71 | 23.74 |
| 20 | 1 | 49 | | 23.62 | 23.60 | 23.65 |
| 20 | 1 | 99 | | 23.61 | 23.63 | 23.63 |
| 20 | 50 | 0 | | 22.53 | 22.50 | 22.53 |
| 20 | 50 | 24 | | 22.51 | 22.51 | 22.55 |
| 20 | 50 | 50 | | 22.47 | 22.47 | 22.50 |
| 20 | 100 | 0 | | 22.50 | 22.47 | 22.50 |
| 20 | 1 | 0 | 64-QAM | 22.65 | 22.64 | 22.69 |
| 20 | 1 | 49 | | 22.59 | 22.59 | 22.64 |
| 20 | 1 | 99 | | 22.54 | 22.58 | 22.57 |
| 20 | 50 | 0 | | 21.55 | 21.52 | 21.57 |
| 20 | 50 | 24 | | 21.55 | 21.52 | 21.57 |
| 20 | 50 | 50 | | 21.51 | 21.51 | 21.54 |
| 20 | 100 | 0 | | 21.50 | 21.49 | 21.53 |
| 15 | 1 | 0 | QPSK | 24.42 | 24.41 | 24.41 |
| 15 | 1 | 37 | | 24.36 | 24.38 | 24.40 |
| 15 | 1 | 74 | | 24.36 | 24.36 | 24.39 |
| 15 | 36 | 0 | | 23.51 | 23.51 | 23.52 |
| 15 | 36 | 20 | | 23.53 | 23.51 | 23.54 |
| 15 | 36 | 39 | | 23.47 | 23.48 | 23.49 |
| 15 | 75 | 0 | | 23.51 | 23.48 | 23.53 |
| 15 | 1 | 0 | 16-QAM | 23.72 | 23.67 | 23.75 |
| 15 | 1 | 37 | | 23.70 | 23.64 | 23.65 |
| 15 | 1 | 74 | | 23.66 | 23.66 | 23.67 |
| 15 | 36 | 0 | | 22.55 | 22.51 | 22.54 |
| 15 | 36 | 20 | | 22.55 | 22.52 | 22.56 |
| 15 | 36 | 39 | | 22.51 | 22.50 | 22.53 |
| 15 | 75 | 0 | | 22.51 | 22.49 | 22.55 |
| 15 | 1 | 0 | 64-QAM | 22.72 | 22.66 | 22.67 |
| 15 | 1 | 37 | | 22.65 | 22.62 | 22.64 |
| 15 | 1 | 74 | | 22.60 | 22.67 | 22.59 |
| 15 | 36 | 0 | | 21.57 | 21.57 | 21.60 |
| 15 | 36 | 20 | | 21.60 | 21.55 | 21.60 |
| 15 | 36 | 39 | | 21.53 | 21.53 | 21.57 |
| 15 | 75 | 0 | | 21.53 | 21.50 | 21.56 |

| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.18 | 24.29 | 24.25 |
| 10 | 1 | 25 | | 24.24 | 24.26 | 24.31 |
| 10 | 1 | 49 | | 24.16 | 24.16 | 24.23 |
| 10 | 25 | 0 | | 23.38 | 23.39 | 23.40 |
| 10 | 25 | 12 | | 23.40 | 23.38 | 23.42 |
| 10 | 25 | 25 | | 23.31 | 23.32 | 23.36 |
| 10 | 50 | 0 | | 23.33 | 23.35 | 23.41 |
| 10 | 1 | 0 | 16-QAM | 23.56 | 23.55 | 23.59 |
| 10 | 1 | 25 | | 23.54 | 23.57 | 23.59 |
| 10 | 1 | 49 | | 23.45 | 23.47 | 23.48 |
| 10 | 25 | 0 | | 22.39 | 22.38 | 22.44 |
| 10 | 25 | 12 | | 22.42 | 22.38 | 22.45 |
| 10 | 25 | 25 | | 22.33 | 22.33 | 22.36 |
| 10 | 50 | 0 | | 22.39 | 22.35 | 22.42 |
| 10 | 1 | 0 | 64-QAM | 22.51 | 22.46 | 22.57 |
| 10 | 1 | 25 | | 22.50 | 22.49 | 22.58 |
| 10 | 1 | 49 | | 22.46 | 22.43 | 22.46 |
| 10 | 25 | 0 | | 21.45 | 21.41 | 21.46 |
| 10 | 25 | 12 | | 21.45 | 21.41 | 21.45 |
| 10 | 25 | 25 | | 21.37 | 21.35 | 21.37 |
| 10 | 50 | 0 | | 21.39 | 21.39 | 21.43 |
| 5 | 1 | 0 | QPSK | 24.24 | 24.27 | 24.26 |
| 5 | 1 | 12 | | 24.29 | 24.29 | 24.31 |
| 5 | 1 | 24 | | 24.23 | 24.20 | 24.27 |
| 5 | 12 | 0 | | 23.36 | 23.33 | 23.37 |
| 5 | 12 | 7 | | 23.44 | 23.40 | 23.43 |
| 5 | 12 | 13 | | 23.39 | 23.39 | 23.37 |
| 5 | 25 | 0 | | 23.36 | 23.30 | 23.38 |
| 5 | 1 | 0 | 16-QAM | 23.53 | 23.50 | 23.57 |
| 5 | 1 | 12 | | 23.64 | 23.58 | 23.61 |
| 5 | 1 | 24 | | 23.51 | 23.47 | 23.52 |
| 5 | 12 | 0 | | 22.46 | 22.34 | 22.39 |
| 5 | 12 | 7 | | 22.48 | 22.46 | 22.46 |
| 5 | 12 | 13 | | 22.41 | 22.41 | 22.40 |
| 5 | 25 | 0 | | 22.42 | 22.33 | 22.38 |
| 5 | 1 | 0 | 64-QAM | 22.52 | 22.48 | 22.52 |
| 5 | 1 | 12 | | 22.62 | 22.55 | 22.57 |
| 5 | 1 | 24 | | 22.49 | 22.44 | 22.46 |
| 5 | 12 | 0 | | 21.47 | 21.38 | 21.45 |
| 5 | 12 | 7 | | 21.56 | 21.53 | 21.54 |
| 5 | 12 | 13 | | 21.48 | 21.45 | 21.44 |
| 5 | 25 | 0 | | 21.42 | 21.33 | 21.44 |

| LTE Band 4 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.18 | 24.22 | 24.26 |
| 3 | 1 | 8 | | 24.39 | 24.40 | 24.42 |
| 3 | 1 | 14 | | 24.23 | 24.24 | 24.28 |
| 3 | 8 | 0 | | 23.35 | 23.34 | 23.37 |
| 3 | 8 | 4 | | 23.42 | 23.43 | 23.41 |
| 3 | 8 | 7 | | 23.38 | 23.40 | 23.43 |
| 3 | 15 | 0 | | 23.38 | 23.31 | 23.39 |
| 3 | 1 | 0 | 16-QAM | 23.54 | 23.44 | 23.46 |
| 3 | 1 | 8 | | 23.67 | 23.62 | 23.69 |
| 3 | 1 | 14 | | 23.54 | 23.53 | 23.52 |
| 3 | 8 | 0 | | 22.45 | 22.39 | 22.39 |
| 3 | 8 | 4 | | 22.52 | 22.47 | 22.47 |
| 3 | 8 | 7 | | 22.49 | 22.44 | 22.42 |
| 3 | 15 | 0 | | 22.42 | 22.39 | 22.39 |
| 3 | 1 | 0 | 64-QAM | 22.45 | 22.42 | 22.45 |
| 3 | 1 | 8 | | 22.66 | 22.63 | 22.60 |
| 3 | 1 | 14 | | 22.54 | 22.53 | 22.47 |
| 3 | 8 | 0 | | 21.48 | 21.37 | 21.36 |
| 3 | 8 | 4 | | 21.51 | 21.48 | 21.52 |
| 3 | 8 | 7 | | 21.53 | 21.45 | 21.47 |
| 3 | 15 | 0 | | 21.43 | 21.38 | 21.44 |
| 1.4 | 1 | 0 | QPSK | 24.14 | 24.18 | 24.14 |
| 1.4 | 1 | 3 | | 24.32 | 24.34 | 24.36 |
| 1.4 | 1 | 5 | | 24.25 | 24.25 | 24.29 |
| 1.4 | 3 | 0 | | 24.16 | 24.20 | 24.25 |
| 1.4 | 3 | 1 | | 24.28 | 24.30 | 24.28 |
| 1.4 | 3 | 3 | | 24.26 | 24.27 | 24.32 |
| 1.4 | 6 | 0 | | 23.29 | 23.34 | 23.32 |
| 1.4 | 1 | 0 | 16-QAM | 23.43 | 23.50 | 23.42 |
| 1.4 | 1 | 3 | | 23.62 | 23.62 | 23.62 |
| 1.4 | 1 | 5 | | 23.51 | 23.51 | 23.54 |
| 1.4 | 3 | 0 | | 23.21 | 23.29 | 23.28 |
| 1.4 | 3 | 1 | | 23.35 | 23.35 | 23.32 |
| 1.4 | 3 | 3 | | 23.30 | 23.33 | 23.36 |
| 1.4 | 6 | 0 | | 22.41 | 22.41 | 22.39 |
| 1.4 | 1 | 0 | 64-QAM | 22.44 | 22.44 | 22.38 |
| 1.4 | 1 | 3 | | 22.57 | 22.55 | 22.57 |
| 1.4 | 1 | 5 | | 22.50 | 22.47 | 22.48 |
| 1.4 | 3 | 0 | | 22.39 | 22.47 | 22.39 |
| 1.4 | 3 | 1 | | 22.52 | 22.55 | 22.43 |
| 1.4 | 3 | 3 | | 22.47 | 22.48 | 22.48 |
| 1.4 | 6 | 0 | | 21.35 | 21.35 | 21.29 |

| LTE Band 5 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | **24.44** | 24.39 | 24.38 |
| 10 | 1 | 25 | | 24.31 | 24.31 | 24.26 |
| 10 | 1 | 49 | | 24.31 | 24.30 | 24.27 |
| 10 | 25 | 0 | | 23.43 | 23.43 | 23.40 |
| 10 | 25 | 12 | | 23.42 | 23.41 | 23.38 |
| 10 | 25 | 25 | | 23.39 | 23.40 | 23.34 |
| 10 | 50 | 0 | | 23.40 | 23.42 | 23.41 |
| 10 | 1 | 0 | 16-QAM | 23.64 | 23.70 | 23.64 |
| 10 | 1 | 25 | | 23.62 | 23.55 | 23.58 |
| 10 | 1 | 49 | | 23.55 | 23.54 | 23.50 |
| 10 | 25 | 0 | | 22.43 | 22.46 | 22.40 |
| 10 | 25 | 12 | | 22.46 | 22.43 | 22.43 |
| 10 | 25 | 25 | | 22.40 | 22.40 | 22.35 |
| 10 | 50 | 0 | | 22.44 | 22.45 | 22.41 |
| 10 | 1 | 0 | 64-QAM | 22.63 | 22.62 | 22.54 |
| 10 | 1 | 25 | | 22.57 | 22.50 | 22.58 |
| 10 | 1 | 49 | | 22.54 | 22.44 | 22.41 |
| 10 | 25 | 0 | | 21.46 | 21.45 | 21.42 |
| 10 | 25 | 12 | | 21.48 | 21.43 | 21.45 |
| 10 | 25 | 25 | | 21.42 | 21.41 | 21.37 |
| 10 | 50 | 0 | | 21.47 | 21.42 | 21.39 |
| 5 | 1 | 0 | QPSK | 24.28 | 24.24 | 24.19 |
| 5 | 1 | 12 | | 24.36 | 24.36 | 24.31 |
| 5 | 1 | 24 | | 24.38 | 24.33 | 24.27 |
| 5 | 12 | 0 | | 23.39 | 23.35 | 23.30 |
| 5 | 12 | 7 | | 23.49 | 23.42 | 23.40 |
| 5 | 12 | 13 | | 23.46 | 23.47 | 23.40 |
| 5 | 25 | 0 | | 23.46 | 23.38 | 23.40 |
| 5 | 1 | 0 | 16-QAM | 23.52 | 23.49 | 23.49 |
| 5 | 1 | 12 | | 23.66 | 23.58 | 23.58 |
| 5 | 1 | 24 | | 23.69 | 23.56 | 23.55 |
| 5 | 12 | 0 | | 22.39 | 22.32 | 22.34 |
| 5 | 12 | 7 | | 22.51 | 22.42 | 22.46 |
| 5 | 12 | 13 | | 22.55 | 22.46 | 22.44 |
| 5 | 25 | 0 | | 22.49 | 22.37 | 22.42 |
| 5 | 1 | 0 | 64-QAM | 22.46 | 22.51 | 22.49 |
| 5 | 1 | 12 | | 22.62 | 22.54 | 22.55 |
| 5 | 1 | 24 | | 22.61 | 22.54 | 22.49 |
| 5 | 12 | 0 | | 21.40 | 21.37 | 21.43 |
| 5 | 12 | 7 | | 21.57 | 21.49 | 21.48 |
| 5 | 12 | 13 | | 21.60 | 21.51 | 21.49 |
| 5 | 25 | 0 | | 21.48 | 21.41 | 21.45 |

| LTE Band 5 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.22 | 24.17 | 24.19 |
| 3 | 1 | 8 | | 24.43 | 24.41 | 24.39 |
| 3 | 1 | 14 | | 24.37 | 24.35 | 24.31 |
| 3 | 8 | 0 | | 23.30 | 23.33 | 23.30 |
| 3 | 8 | 4 | | 23.47 | 23.36 | 23.40 |
| 3 | 8 | 7 | | 23.43 | 23.44 | 23.40 |
| 3 | 15 | 0 | | 23.40 | 23.37 | 23.35 |
| 3 | 1 | 0 | 16-QAM | 23.46 | 23.41 | 23.47 |
| 3 | 1 | 8 | | 23.68 | 23.65 | 23.61 |
| 3 | 1 | 14 | | 23.64 | 23.57 | 23.55 |
| 3 | 8 | 0 | | 22.43 | 22.32 | 22.36 |
| 3 | 8 | 4 | | 22.49 | 22.44 | 22.51 |
| 3 | 8 | 7 | | 22.56 | 22.50 | 22.48 |
| 3 | 15 | 0 | | 22.47 | 22.35 | 22.35 |
| 3 | 1 | 0 | 64-QAM | 22.40 | 22.40 | 22.46 |
| 3 | 1 | 8 | | 22.64 | 22.60 | 22.62 |
| 3 | 1 | 14 | | 22.63 | 22.57 | 22.55 |
| 3 | 8 | 0 | | 21.39 | 21.37 | 21.41 |
| 3 | 8 | 4 | | 21.54 | 21.41 | 21.45 |
| 3 | 8 | 7 | | 21.51 | 21.52 | 21.45 |
| 3 | 15 | 0 | | 21.43 | 21.40 | 21.36 |
| 1.4 | 1 | 0 | QPSK | 24.23 | 24.15 | 24.20 |
| 1.4 | 1 | 3 | | 24.38 | 24.37 | 24.34 |
| 1.4 | 1 | 5 | | 24.31 | 24.30 | 24.27 |
| 1.4 | 3 | 0 | | 24.30 | 24.22 | 24.23 |
| 1.4 | 3 | 1 | | 24.35 | 24.26 | 24.27 |
| 1.4 | 3 | 3 | | 24.32 | 24.31 | 24.24 |
| 1.4 | 6 | 0 | | 23.38 | 23.31 | 23.31 |
| 1.4 | 1 | 0 | 16-QAM | 23.41 | 23.44 | 23.40 |
| 1.4 | 1 | 3 | | 23.59 | 23.60 | 23.58 |
| 1.4 | 1 | 5 | | 23.51 | 23.51 | 23.50 |
| 1.4 | 3 | 0 | | 23.33 | 23.22 | 23.25 |
| 1.4 | 3 | 1 | | 23.36 | 23.30 | 23.31 |
| 1.4 | 3 | 3 | | 23.38 | 23.33 | 23.30 |
| 1.4 | 6 | 0 | | 22.43 | 22.38 | 22.42 |
| 1.4 | 1 | 0 | 64-QAM | 22.39 | 22.40 | 22.42 |
| 1.4 | 1 | 3 | | 22.57 | 22.54 | 22.48 |
| 1.4 | 1 | 5 | | 22.54 | 22.52 | 22.44 |
| 1.4 | 3 | 0 | | 22.46 | 22.39 | 22.39 |
| 1.4 | 3 | 1 | | 22.54 | 22.47 | 22.48 |
| 1.4 | 3 | 3 | | 22.52 | 22.50 | 22.43 |
| 1.4 | 6 | 0 | | 21.41 | 21.32 | 21.29 |

| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.18 | 24.19 | 24.22 |
| 20 | 1 | 49 | | 24.19 | 24.23 | 24.27 |
| 20 | 1 | 99 | | 24.32 | 24.30 | **24.37** |
| 20 | 50 | 0 | | 23.25 | 23.33 | 23.40 |
| 20 | 50 | 24 | | 23.35 | 23.38 | 23.38 |
| 20 | 50 | 50 | | 23.42 | 23.38 | 23.43 |
| 20 | 100 | 0 | | 23.33 | 23.37 | 23.41 |
| 20 | 1 | 0 | 16-QAM | 23.41 | 23.45 | 23.46 |
| 20 | 1 | 49 | | 23.39 | 23.41 | 23.57 |
| 20 | 1 | 99 | | 23.55 | 23.55 | 23.60 |
| 20 | 50 | 0 | | 22.28 | 22.37 | 22.43 |
| 20 | 50 | 24 | | 22.35 | 22.37 | 22.46 |
| 20 | 50 | 50 | | 22.40 | 22.40 | 22.40 |
| 20 | 100 | 0 | | 22.33 | 22.36 | 22.40 |
| 20 | 1 | 0 | 64-QAM | 22.38 | 22.42 | 22.43 |
| 20 | 1 | 49 | | 22.38 | 22.42 | 22.53 |
| 20 | 1 | 99 | | 22.53 | 22.47 | 22.34 |
| 20 | 50 | 0 | | 21.26 | 21.36 | 21.45 |
| 20 | 50 | 24 | | 21.34 | 21.39 | 21.46 |
| 20 | 50 | 50 | | 21.39 | 21.40 | 21.41 |
| 20 | 100 | 0 | | 21.34 | 21.37 | 21.42 |
| 15 | 1 | 0 | QPSK | 24.17 | 24.21 | 24.28 |
| 15 | 1 | 37 | | 24.19 | 24.27 | 24.26 |
| 15 | 1 | 74 | | 24.30 | 24.33 | 24.36 |
| 15 | 36 | 0 | | 23.27 | 23.37 | 23.40 |
| 15 | 36 | 20 | | 23.37 | 23.37 | 23.44 |
| 15 | 36 | 39 | | 23.41 | 23.39 | 23.42 |
| 15 | 75 | 0 | | 23.35 | 23.40 | 23.42 |
| 15 | 1 | 0 | 16-QAM | 23.45 | 23.48 | 23.54 |
| 15 | 1 | 37 | | 23.44 | 23.44 | 23.55 |
| 15 | 1 | 74 | | 23.55 | 23.53 | 23.60 |
| 15 | 36 | 0 | | 22.28 | 22.38 | 22.43 |
| 15 | 36 | 20 | | 22.38 | 22.39 | 22.45 |
| 15 | 36 | 39 | | 22.41 | 22.36 | 22.44 |
| 15 | 75 | 0 | | 22.35 | 22.38 | 22.44 |
| 15 | 1 | 0 | 64-QAM | 22.45 | 22.49 | 22.50 |
| 15 | 1 | 37 | | 22.40 | 22.46 | 22.55 |
| 15 | 1 | 74 | | 22.52 | 22.36 | 22.38 |
| 15 | 36 | 0 | | 21.33 | 21.42 | 21.45 |
| 15 | 36 | 20 | | 21.39 | 21.39 | 21.50 |
| 15 | 36 | 39 | | 21.40 | 21.37 | 21.46 |
| 15 | 75 | 0 | | 21.34 | 21.37 | 21.46 |

| LTE Band 7 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.05 | 24.14 | 24.08 |
| 10 | 1 | 25 | | 24.07 | 24.13 | 24.12 |
| 10 | 1 | 49 | | 24.11 | 24.14 | 24.22 |
| 10 | 25 | 0 | | 23.15 | 23.19 | 23.28 |
| 10 | 25 | 12 | | 23.17 | 23.21 | 23.28 |
| 10 | 25 | 25 | | 23.16 | 23.21 | 23.27 |
| 10 | 50 | 0 | | 23.18 | 23.22 | 23.28 |
| 10 | 1 | 0 | 16-QAM | 23.30 | 23.34 | 23.37 |
| 10 | 1 | 25 | | 23.37 | 23.35 | 23.40 |
| 10 | 1 | 49 | | 23.38 | 23.40 | 23.46 |
| 10 | 25 | 0 | | 22.16 | 22.20 | 22.28 |
| 10 | 25 | 12 | | 22.19 | 22.22 | 22.28 |
| 10 | 25 | 25 | | 22.16 | 22.20 | 22.26 |
| 10 | 50 | 0 | | 22.19 | 22.20 | 22.30 |
| 10 | 1 | 0 | 64-QAM | 22.25 | 22.30 | 22.32 |
| 10 | 1 | 25 | | 22.27 | 22.34 | 22.35 |
| 10 | 1 | 49 | | 22.32 | 22.35 | 22.35 |
| 10 | 25 | 0 | | 21.18 | 21.24 | 21.29 |
| 10 | 25 | 12 | | 21.22 | 21.23 | 21.31 |
| 10 | 25 | 25 | | 21.18 | 21.21 | 21.28 |
| 10 | 50 | 0 | | 21.21 | 21.24 | 21.29 |
| 5 | 1 | 0 | QPSK | 24.03 | 24.12 | 24.12 |
| 5 | 1 | 12 | | 24.13 | 24.17 | 24.20 |
| 5 | 1 | 24 | | 24.17 | 24.23 | 24.22 |
| 5 | 12 | 0 | | 23.14 | 23.14 | 23.30 |
| 5 | 12 | 7 | | 23.24 | 23.24 | 23.39 |
| 5 | 12 | 13 | | 23.29 | 23.33 | 23.40 |
| 5 | 25 | 0 | | 23.24 | 23.22 | 23.32 |
| 5 | 1 | 0 | 16-QAM | 23.28 | 23.31 | 23.37 |
| 5 | 1 | 12 | | 23.39 | 23.45 | 23.43 |
| 5 | 1 | 24 | | 23.41 | 23.43 | 23.45 |
| 5 | 12 | 0 | | 22.23 | 22.18 | 22.26 |
| 5 | 12 | 7 | | 22.26 | 22.28 | 22.38 |
| 5 | 12 | 13 | | 22.26 | 22.30 | 22.40 |
| 5 | 25 | 0 | | 22.25 | 22.22 | 22.32 |
| 5 | 1 | 0 | 64-QAM | 22.26 | 22.32 | 22.39 |
| 5 | 1 | 12 | | 22.34 | 22.38 | 22.39 |
| 5 | 1 | 24 | | 22.39 | 22.43 | 22.40 |
| 5 | 12 | 0 | | 21.25 | 21.25 | 21.34 |
| 5 | 12 | 7 | | 21.31 | 21.30 | 21.42 |
| 5 | 12 | 13 | | 21.29 | 21.35 | 21.40 |
| 5 | 25 | 0 | | 21.25 | 21.20 | 21.33 |

| LTE Band 12 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.36 | 24.41 | 24.31 |
| 10 | 1 | 25 | | 24.45 | 24.44 | 24.32 |
| 10 | 1 | 49 | | **24.56** | 24.45 | 24.35 |
| 10 | 25 | 0 | | 23.54 | 23.54 | 23.52 |
| 10 | 25 | 12 | | 23.57 | 23.56 | 23.54 |
| 10 | 25 | 25 | | 23.55 | 23.55 | 23.54 |
| 10 | 50 | 0 | | 23.58 | 23.55 | 23.53 |
| 10 | 1 | 0 | 16-QAM | 23.71 | 23.67 | 23.79 |
| 10 | 1 | 25 | | 23.80 | 23.76 | 23.75 |
| 10 | 1 | 49 | | 23.83 | 23.71 | 23.68 |
| 10 | 25 | 0 | | 22.59 | 22.62 | 22.55 |
| 10 | 25 | 12 | | 22.62 | 22.62 | 22.58 |
| 10 | 25 | 25 | | 22.62 | 22.60 | 22.56 |
| 10 | 50 | 0 | | 22.60 | 22.61 | 22.56 |
| 10 | 1 | 0 | 64-QAM | 22.72 | 22.68 | 22.75 |
| 10 | 1 | 25 | | 22.72 | 22.78 | 22.72 |
| 10 | 1 | 49 | | 22.80 | 22.75 | 22.65 |
| 10 | 25 | 0 | | 21.61 | 21.62 | 21.55 |
| 10 | 25 | 12 | | 21.64 | 21.63 | 21.61 |
| 10 | 25 | 25 | | 21.63 | 21.61 | 21.57 |
| 10 | 50 | 0 | | 21.62 | 21.63 | 21.57 |
| 5 | 1 | 0 | QPSK | 24.36 | 24.35 | 24.36 |
| 5 | 1 | 12 | | 24.48 | 24.53 | 24.44 |
| 5 | 1 | 24 | | 24.51 | 24.46 | 24.45 |
| 5 | 12 | 0 | | 23.54 | 23.49 | 23.44 |
| 5 | 12 | 7 | | 23.67 | 23.65 | 23.56 |
| 5 | 12 | 13 | | 23.60 | 23.61 | 23.50 |
| 5 | 25 | 0 | | 23.56 | 23.54 | 23.55 |
| 5 | 1 | 0 | 16-QAM | 23.65 | 23.64 | 23.72 |
| 5 | 1 | 12 | | 23.82 | 23.83 | 23.78 |
| 5 | 1 | 24 | | 23.79 | 23.77 | 23.74 |
| 5 | 12 | 0 | | 22.53 | 22.58 | 22.52 |
| 5 | 12 | 7 | | 22.68 | 22.67 | 22.64 |
| 5 | 12 | 13 | | 22.62 | 22.63 | 22.55 |
| 5 | 25 | 0 | | 22.61 | 22.64 | 22.58 |
| 5 | 1 | 0 | 64-QAM | 22.64 | 22.65 | 22.65 |
| 5 | 1 | 12 | | 22.78 | 22.84 | 22.75 |
| 5 | 1 | 24 | | 22.76 | 22.76 | 22.70 |
| 5 | 12 | 0 | | 21.60 | 21.62 | 21.58 |
| 5 | 12 | 7 | | 21.74 | 21.73 | 21.70 |
| 5 | 12 | 13 | | 21.70 | 21.68 | 21.64 |
| 5 | 25 | 0 | | 21.59 | 21.66 | 21.61 |

| LTE Band 12 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.37 | 24.38 | 24.32 |
| 3 | 1 | 8 | | 24.54 | 24.54 | 24.50 |
| 3 | 1 | 14 | | 24.45 | 24.42 | 24.38 |
| 3 | 8 | 0 | | 23.51 | 23.55 | 23.45 |
| 3 | 8 | 4 | | 23.62 | 23.61 | 23.56 |
| 3 | 8 | 7 | | 23.59 | 23.55 | 23.53 |
| 3 | 15 | 0 | | 23.61 | 23.54 | 23.48 |
| 3 | 1 | 0 | 16-QAM | 23.66 | 23.70 | 23.65 |
| 3 | 1 | 8 | | 23.84 | 23.84 | 23.79 |
| 3 | 1 | 14 | | 23.75 | 23.76 | 23.65 |
| 3 | 8 | 0 | | 22.63 | 22.60 | 22.58 |
| 3 | 8 | 4 | | 22.72 | 22.71 | 22.62 |
| 3 | 8 | 7 | | 22.65 | 22.69 | 22.60 |
| 3 | 15 | 0 | | 22.63 | 22.64 | 22.51 |
| 3 | 1 | 0 | 64-QAM | 22.65 | 22.66 | 22.60 |
| 3 | 1 | 8 | | 22.78 | 22.83 | 22.74 |
| 3 | 1 | 14 | | 22.77 | 22.77 | 22.68 |
| 3 | 8 | 0 | | 21.60 | 21.61 | 21.58 |
| 3 | 8 | 4 | | 21.67 | 21.73 | 21.64 |
| 3 | 8 | 7 | | 21.67 | 21.70 | 21.63 |
| 3 | 15 | 0 | | 21.59 | 21.64 | 21.53 |
| 1.4 | 1 | 0 | QPSK | 24.36 | 24.35 | 24.26 |
| 1.4 | 1 | 3 | | 24.49 | 24.48 | 24.42 |
| 1.4 | 1 | 5 | | 24.40 | 24.40 | 24.33 |
| 1.4 | 3 | 0 | | 24.42 | 24.46 | 24.34 |
| 1.4 | 3 | 1 | | 24.47 | 24.49 | 24.40 |
| 1.4 | 3 | 3 | | 24.50 | 24.47 | 24.38 |
| 1.4 | 6 | 0 | | 23.50 | 23.52 | 23.47 |
| 1.4 | 1 | 0 | 16-QAM | 23.65 | 23.66 | 23.56 |
| 1.4 | 1 | 3 | | 23.82 | 23.79 | 23.72 |
| 1.4 | 1 | 5 | | 23.74 | 23.69 | 23.63 |
| 1.4 | 3 | 0 | | 23.46 | 23.50 | 23.39 |
| 1.4 | 3 | 1 | | 23.57 | 23.55 | 23.46 |
| 1.4 | 3 | 3 | | 23.53 | 23.49 | 23.44 |
| 1.4 | 6 | 0 | | 22.65 | 22.62 | 22.54 |
| 1.4 | 1 | 0 | 64-QAM | 22.63 | 22.63 | 22.56 |
| 1.4 | 1 | 3 | | 22.77 | 22.75 | 22.65 |
| 1.4 | 1 | 5 | | 22.67 | 22.68 | 22.59 |
| 1.4 | 3 | 0 | | 22.64 | 22.66 | 22.55 |
| 1.4 | 3 | 1 | | 22.73 | 22.72 | 22.65 |
| 1.4 | 3 | 3 | | 22.71 | 22.66 | 22.59 |
| 1.4 | 6 | 0 | | 21.54 | 21.54 | 21.47 |

| LTE Band 13 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | - | **24.41** | - |
| 10 | 1 | 25 | | | 24.37 | |
| 10 | 1 | 49 | | | 24.37 | |
| 10 | 25 | 0 | | | 23.49 | |
| 10 | 25 | 12 | | | 23.48 | |
| 10 | 25 | 25 | | | 23.48 | |
| 10 | 50 | 0 | | | 23.49 | |
| 10 | 1 | 0 | 16-QAM | | 23.66 | |
| 10 | 1 | 25 | | | 23.61 | |
| 10 | 1 | 49 | | | 23.61 | |
| 10 | 25 | 0 | | | 22.50 | |
| 10 | 25 | 12 | | | 22.50 | |
| 10 | 25 | 25 | | | 22.46 | |
| 10 | 50 | 0 | | | 22.51 | |
| 10 | 1 | 0 | 64-QAM | | 22.61 | |
| 10 | 1 | 25 | | | 22.57 | |
| 10 | 1 | 49 | | | 22.59 | |
| 10 | 25 | 0 | | | 21.51 | |
| 10 | 25 | 12 | | | 21.50 | |
| 10 | 25 | 25 | | | 21.47 | |
| 10 | 50 | 0 | | | 21.49 | |
| 5 | 1 | 0 | QPSK | 24.32 | 24.32 | 24.29 |
| 5 | 1 | 12 | | 24.35 | 24.38 | 24.35 |
| 5 | 1 | 24 | | 24.38 | 24.39 | 24.37 |
| 5 | 12 | 0 | | 23.48 | 23.46 | 23.44 |
| 5 | 12 | 7 | | 23.52 | 23.46 | 23.51 |
| 5 | 12 | 13 | | 23.48 | 23.49 | 23.50 |
| 5 | 25 | 0 | | 23.53 | 23.45 | 23.49 |
| 5 | 1 | 0 | 16-QAM | 23.55 | 23.56 | 23.52 |
| 5 | 1 | 12 | | 23.64 | 23.61 | 23.61 |
| 5 | 1 | 24 | | 23.57 | 23.58 | 23.58 |
| 5 | 12 | 0 | | 22.46 | 22.43 | 22.45 |
| 5 | 12 | 7 | | 22.50 | 22.43 | 22.51 |
| 5 | 12 | 13 | | 22.50 | 22.48 | 22.48 |
| 5 | 25 | 0 | | 22.55 | 22.44 | 22.48 |
| 5 | 1 | 0 | 64-QAM | 22.53 | 22.53 | 22.47 |
| 5 | 1 | 12 | | 22.59 | 22.54 | 22.57 |
| 5 | 1 | 24 | | 22.56 | 22.57 | 22.53 |
| 5 | 12 | 0 | | 21.51 | 21.52 | 21.47 |
| 5 | 12 | 7 | | 21.60 | 21.52 | 21.57 |
| 5 | 12 | 13 | | 21.54 | 21.52 | 21.54 |
| 5 | 25 | 0 | | 21.53 | 21.43 | 21.48 |

| LTE Band 17 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | **24.52** | 24.50 | 24.47 |
| 10 | 1 | 25 | | 24.44 | 24.40 | 24.39 |
| 10 | 1 | 49 | | 24.37 | 24.43 | 24.37 |
| 10 | 25 | 0 | | 23.55 | 23.52 | 23.53 |
| 10 | 25 | 12 | | 23.57 | 23.55 | 23.55 |
| 10 | 25 | 25 | | 23.54 | 23.52 | 23.53 |
| 10 | 50 | 0 | | 23.55 | 23.54 | 23.55 |
| 10 | 1 | 0 | 16-QAM | 23.72 | 23.78 | 23.78 |
| 10 | 1 | 25 | | 23.69 | 23.68 | 23.71 |
| 10 | 1 | 49 | | 23.64 | 23.73 | 23.68 |
| 10 | 25 | 0 | | 22.56 | 22.54 | 22.52 |
| 10 | 25 | 12 | | 22.58 | 22.57 | 22.57 |
| 10 | 25 | 25 | | 22.60 | 22.53 | 22.54 |
| 10 | 50 | 0 | | 22.56 | 22.56 | 22.56 |
| 10 | 1 | 0 | 64-QAM | 22.68 | 22.70 | 22.70 |
| 10 | 1 | 25 | | 22.66 | 22.63 | 22.66 |
| 10 | 1 | 49 | | 22.64 | 22.59 | 22.65 |
| 10 | 25 | 0 | | 21.58 | 21.56 | 21.54 |
| 10 | 25 | 12 | | 21.59 | 21.58 | 21.56 |
| 10 | 25 | 25 | | 21.59 | 21.55 | 21.56 |
| 10 | 50 | 0 | | 21.57 | 21.56 | 21.57 |
| 5 | 1 | 0 | QPSK | 24.37 | 24.34 | 24.33 |
| 5 | 1 | 12 | | 24.51 | 24.49 | 24.46 |
| 5 | 1 | 24 | | 24.48 | 24.45 | 24.45 |
| 5 | 12 | 0 | | 23.50 | 23.51 | 23.49 |
| 5 | 12 | 7 | | 23.65 | 23.58 | 23.56 |
| 5 | 12 | 13 | | 23.62 | 23.55 | 23.57 |
| 5 | 25 | 0 | | 23.58 | 23.56 | 23.50 |
| 5 | 1 | 0 | 16-QAM | 23.68 | 23.65 | 23.58 |
| 5 | 1 | 12 | | 23.79 | 23.78 | 23.74 |
| 5 | 1 | 24 | | 23.74 | 23.72 | 23.66 |
| 5 | 12 | 0 | | 22.57 | 22.52 | 22.51 |
| 5 | 12 | 7 | | 22.68 | 22.61 | 22.60 |
| 5 | 12 | 13 | | 22.63 | 22.55 | 22.54 |
| 5 | 25 | 0 | | 22.60 | 22.59 | 22.48 |
| 5 | 1 | 0 | 64-QAM | 22.63 | 22.57 | 22.60 |
| 5 | 1 | 12 | | 22.76 | 22.70 | 22.69 |
| 5 | 1 | 24 | | 22.69 | 22.71 | 22.61 |
| 5 | 12 | 0 | | 21.58 | 21.55 | 21.52 |
| 5 | 12 | 7 | | 21.67 | 21.64 | 21.63 |
| 5 | 12 | 13 | | 21.64 | 21.61 | 21.60 |
| 5 | 25 | 0 | | 21.59 | 21.58 | 21.53 |

| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 15 | 1 | 0 | QPSK | 24.40 | 24.41 | **24.42** |
| 15 | 1 | 37 | | 24.39 | 24.33 | 24.27 |
| 15 | 1 | 74 | | 24.39 | 24.40 | 24.26 |
| 15 | 36 | 0 | | 23.49 | 23.52 | 23.57 |
| 15 | 36 | 20 | | 23.41 | 23.51 | 23.50 |
| 15 | 36 | 39 | | 23.46 | 23.46 | 23.44 |
| 15 | 75 | 0 | | 23.45 | 23.47 | 23.48 |
| 15 | 1 | 0 | 16-QAM | 23.66 | 23.64 | 23.63 |
| 15 | 1 | 37 | | 23.62 | 23.63 | 23.60 |
| 15 | 1 | 74 | | 23.70 | 23.64 | 23.48 |
| 15 | 36 | 0 | | 22.50 | 22.52 | 22.48 |
| 15 | 36 | 20 | | 22.50 | 22.54 | 22.53 |
| 15 | 36 | 39 | | 22.48 | 22.50 | 22.47 |
| 15 | 75 | 0 | | 22.50 | 22.52 | 22.50 |
| 15 | 1 | 0 | 64-QAM | 22.64 | 22.62 | 22.58 |
| 15 | 1 | 37 | | 22.54 | 22.62 | 22.60 |
| 15 | 1 | 74 | | 22.70 | 22.63 | 22.44 |
| 15 | 36 | 0 | | 21.53 | 21.59 | 21.52 |
| 15 | 36 | 20 | | 21.56 | 21.59 | 21.56 |
| 15 | 36 | 39 | | 21.54 | 21.52 | 21.51 |
| 15 | 75 | 0 | | 21.52 | 21.53 | 21.50 |
| 10 | 1 | 0 | QPSK | 24.31 | 24.40 | 24.26 |
| 10 | 1 | 25 | | 24.26 | 24.33 | 24.30 |
| 10 | 1 | 49 | | 24.21 | 24.26 | 24.24 |
| 10 | 25 | 0 | | 23.36 | 23.37 | 23.37 |
| 10 | 25 | 12 | | 23.40 | 23.40 | 23.40 |
| 10 | 25 | 25 | | 23.39 | 23.38 | 23.36 |
| 10 | 50 | 0 | | 23.36 | 23.37 | 23.38 |
| 10 | 1 | 0 | 16-QAM | 23.58 | 23.65 | 23.58 |
| 10 | 1 | 25 | | 23.48 | 23.61 | 23.63 |
| 10 | 1 | 49 | | 23.50 | 23.54 | 23.49 |
| 10 | 25 | 0 | | 22.38 | 22.42 | 22.38 |
| 10 | 25 | 12 | | 22.40 | 22.44 | 22.42 |
| 10 | 25 | 25 | | 22.36 | 22.39 | 22.39 |
| 10 | 50 | 0 | | 22.38 | 22.43 | 22.40 |
| 10 | 1 | 0 | 64-QAM | 22.57 | 22.64 | 22.51 |
| 10 | 1 | 25 | | 22.48 | 22.59 | 22.57 |
| 10 | 1 | 49 | | 22.46 | 22.54 | 22.47 |
| 10 | 25 | 0 | | 21.38 | 21.42 | 21.40 |
| 10 | 25 | 12 | | 21.41 | 21.45 | 21.44 |
| 10 | 25 | 25 | | 21.39 | 21.43 | 21.41 |
| 10 | 50 | 0 | | 21.38 | 21.41 | 21.44 |

| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 5 | 1 | 0 | QPSK | 24.16 | 24.22 | 24.19 |
| 5 | 1 | 12 | | 24.29 | 24.29 | 24.27 |
| 5 | 1 | 24 | | 24.31 | 24.32 | 24.23 |
| 5 | 12 | 0 | | 23.34 | 23.29 | 23.31 |
| 5 | 12 | 7 | | 23.39 | 23.40 | 23.41 |
| 5 | 12 | 13 | | 23.36 | 23.36 | 23.33 |
| 5 | 25 | 0 | | 23.39 | 23.35 | 23.25 |
| 5 | 1 | 0 | 16-QAM | 23.47 | 23.54 | 23.54 |
| 5 | 1 | 12 | | 23.55 | 23.63 | 23.58 |
| 5 | 1 | 24 | | 23.55 | 23.58 | 23.49 |
| 5 | 12 | 0 | | 22.38 | 22.39 | 22.36 |
| 5 | 12 | 7 | | 22.46 | 22.48 | 22.39 |
| 5 | 12 | 13 | | 22.40 | 22.40 | 22.32 |
| 5 | 25 | 0 | | 22.38 | 22.42 | 22.28 |
| 5 | 1 | 0 | 64-QAM | 22.42 | 22.53 | 22.51 |
| 5 | 1 | 12 | | 22.55 | 22.59 | 22.54 |
| 5 | 1 | 24 | | 22.53 | 22.56 | 22.37 |
| 5 | 12 | 0 | | 21.42 | 21.42 | 21.40 |
| 5 | 12 | 7 | | 21.52 | 21.53 | 21.44 |
| 5 | 12 | 13 | | 21.43 | 21.45 | 21.39 |
| 5 | 25 | 0 | | 21.40 | 21.45 | 21.31 |
| 3 | 1 | 0 | QPSK | 24.17 | 24.26 | 24.28 |
| 3 | 1 | 8 | | 24.33 | 24.38 | 24.29 |
| 3 | 1 | 14 | | 24.19 | 24.28 | 24.18 |
| 3 | 8 | 0 | | 23.33 | 23.33 | 23.32 |
| 3 | 8 | 4 | | 23.43 | 23.40 | 23.36 |
| 3 | 8 | 7 | | 23.35 | 23.39 | 23.29 |
| 3 | 15 | 0 | | 23.39 | 23.36 | 23.33 |
| 3 | 1 | 0 | 16-QAM | 23.41 | 23.51 | 23.55 |
| 3 | 1 | 8 | | 23.60 | 23.65 | 23.54 |
| 3 | 1 | 14 | | 23.46 | 23.52 | 23.43 |
| 3 | 8 | 0 | | 22.40 | 22.39 | 22.40 |
| 3 | 8 | 4 | | 22.51 | 22.46 | 22.39 |
| 3 | 8 | 7 | | 22.44 | 22.45 | 22.34 |
| 3 | 15 | 0 | | 22.44 | 22.39 | 22.34 |
| 3 | 1 | 0 | 64-QAM | 22.40 | 22.51 | 22.52 |
| 3 | 1 | 8 | | 22.58 | 22.64 | 22.55 |
| 3 | 1 | 14 | | 22.44 | 22.53 | 22.42 |
| 3 | 8 | 0 | | 21.41 | 21.42 | 21.41 |
| 3 | 8 | 4 | | 21.51 | 21.50 | 21.39 |
| 3 | 8 | 7 | | 21.45 | 21.46 | 21.31 |
| 3 | 15 | 0 | | 21.41 | 21.39 | 21.36 |

| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 1.4 | 1 | 0 | QPSK | 24.13 | 24.15 | 24.17 |
| 1.4 | 1 | 3 | | 24.25 | 24.30 | 24.22 |
| 1.4 | 1 | 5 | | 24.13 | 24.18 | 24.14 |
| 1.4 | 3 | 0 | | 24.26 | 24.22 | 24.15 |
| 1.4 | 3 | 1 | | 24.27 | 24.30 | 24.24 |
| 1.4 | 3 | 3 | | 24.23 | 24.26 | 24.18 |
| 1.4 | 6 | 0 | | 23.33 | 23.29 | 23.24 |
| 1.4 | 1 | 0 | 16-QAM | 23.37 | 23.46 | 23.41 |
| 1.4 | 1 | 3 | | 23.52 | 23.61 | 23.50 |
| 1.4 | 1 | 5 | | 23.48 | 23.50 | 23.38 |
| 1.4 | 3 | 0 | | 23.30 | 23.27 | 23.21 |
| 1.4 | 3 | 1 | | 23.31 | 23.37 | 23.22 |
| 1.4 | 3 | 3 | | 23.25 | 23.28 | 23.18 |
| 1.4 | 6 | 0 | | 22.43 | 22.42 | 22.30 |
| 1.4 | 1 | 0 | 64-QAM | 22.35 | 22.40 | 22.40 |
| 1.4 | 1 | 3 | | 22.50 | 22.53 | 22.43 |
| 1.4 | 1 | 5 | | 22.44 | 22.44 | 22.33 |
| 1.4 | 3 | 0 | | 22.46 | 22.45 | 22.39 |
| 1.4 | 3 | 1 | | 22.46 | 22.54 | 22.42 |
| 1.4 | 3 | 3 | | 22.43 | 22.48 | 22.31 |
| 1.4 | 6 | 0 | | 21.37 | 21.36 | 21.25 |

| LTE Band 38 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.87 | **24.91** | 24.86 |
| 20 | 1 | 49 | | 24.84 | 24.88 | 24.85 |
| 20 | 1 | 99 | | 24.83 | 24.86 | 24.83 |
| 20 | 50 | 0 | | 23.97 | 23.97 | 23.95 |
| 20 | 50 | 24 | | 23.99 | 24.00 | 23.99 |
| 20 | 50 | 50 | | 23.98 | 23.99 | 23.94 |
| 20 | 100 | 0 | | 23.99 | 23.98 | 24.00 |
| 20 | 1 | 0 | 16-QAM | 23.97 | 24.00 | 23.96 |
| 20 | 1 | 49 | | 23.93 | 23.98 | 23.96 |
| 20 | 1 | 99 | | 23.93 | 23.93 | 23.89 |
| 20 | 50 | 0 | | 22.99 | 23.00 | 22.98 |
| 20 | 50 | 24 | | 23.00 | 23.00 | 22.80 |
| 20 | 50 | 50 | | 23.00 | 23.00 | 22.98 |
| 20 | 100 | 0 | | 22.95 | 23.00 | 22.87 |
| 20 | 1 | 0 | 64-QAM | 22.70 | 22.78 | 22.74 |
| 20 | 1 | 49 | | 22.58 | 22.75 | 22.71 |
| 20 | 1 | 99 | | 22.67 | 22.67 | 22.69 |
| 20 | 50 | 0 | | 21.98 | 22.00 | 21.99 |
| 20 | 50 | 24 | | 21.84 | 22.00 | 21.97 |
| 20 | 50 | 50 | | 21.98 | 22.00 | 22.00 |
| 20 | 100 | 0 | | 21.98 | 21.89 | 21.99 |
| 15 | 1 | 0 | QPSK | 24.89 | 24.89 | 24.90 |
| 15 | 1 | 37 | | 24.79 | 24.79 | 24.77 |
| 15 | 1 | 74 | | 24.86 | 24.87 | 24.86 |
| 15 | 36 | 0 | | 23.93 | 23.94 | 23.96 |
| 15 | 36 | 20 | | 24.00 | 24.00 | 23.98 |
| 15 | 36 | 39 | | 23.96 | 23.97 | 23.93 |
| 15 | 75 | 0 | | 23.96 | 23.97 | 23.95 |
| 15 | 1 | 0 | 16-QAM | 23.99 | 23.97 | 24.00 |
| 15 | 1 | 37 | | 23.89 | 23.96 | 23.93 |
| 15 | 1 | 74 | | 23.97 | 23.91 | 23.96 |
| 15 | 36 | 0 | | 22.93 | 22.96 | 22.94 |
| 15 | 36 | 20 | | 23.00 | 22.98 | 22.96 |
| 15 | 36 | 39 | | 22.93 | 22.95 | 22.92 |
| 15 | 75 | 0 | | 22.96 | 23.00 | 22.98 |
| 15 | 1 | 0 | 64-QAM | 22.71 | 22.73 | 22.78 |
| 15 | 1 | 37 | | 22.63 | 22.73 | 22.64 |
| 15 | 1 | 74 | | 22.71 | 22.70 | 22.70 |
| 15 | 36 | 0 | | 21.96 | 21.98 | 21.95 |
| 15 | 36 | 20 | | 22.00 | 22.00 | 21.99 |
| 15 | 36 | 39 | | 21.97 | 21.99 | 21.97 |
| 15 | 75 | 0 | | 21.97 | 21.98 | 22.00 |

| LTE Band 38 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.58 | 24.68 | 24.65 |
| 10 | 1 | 25 | | 24.64 | 24.72 | 24.71 |
| 10 | 1 | 49 | | 24.64 | 24.70 | 24.65 |
| 10 | 25 | 0 | | 23.73 | 23.79 | 23.81 |
| 10 | 25 | 12 | | 23.80 | 23.81 | 23.80 |
| 10 | 25 | 25 | | 23.75 | 23.84 | 23.82 |
| 10 | 50 | 0 | | 23.76 | 23.86 | 23.84 |
| 10 | 1 | 0 | 16-QAM | 23.73 | 23.78 | 23.74 |
| 10 | 1 | 25 | | 23.74 | 23.80 | 23.80 |
| 10 | 1 | 49 | | 23.72 | 23.76 | 23.69 |
| 10 | 25 | 0 | | 22.78 | 22.83 | 22.85 |
| 10 | 25 | 12 | | 22.82 | 22.86 | 22.86 |
| 10 | 25 | 25 | | 22.77 | 22.85 | 22.84 |
| 10 | 50 | 0 | | 22.83 | 22.90 | 22.83 |
| 10 | 1 | 0 | 64-QAM | 22.48 | 22.54 | 22.52 |
| 10 | 1 | 25 | | 22.49 | 22.56 | 22.59 |
| 10 | 1 | 49 | | 22.49 | 22.53 | 22.50 |
| 10 | 25 | 0 | | 21.84 | 21.88 | 21.87 |
| 10 | 25 | 12 | | 21.87 | 21.91 | 21.89 |
| 10 | 25 | 25 | | 21.84 | 21.86 | 21.87 |
| 10 | 50 | 0 | | 21.84 | 21.85 | 21.86 |
| 5 | 1 | 0 | QPSK | 24.56 | 24.62 | 24.69 |
| 5 | 1 | 12 | | 24.68 | 24.73 | 24.72 |
| 5 | 1 | 24 | | 24.68 | 24.75 | 24.68 |
| 5 | 12 | 0 | | 23.66 | 23.70 | 23.67 |
| 5 | 12 | 7 | | 23.84 | 23.85 | 23.88 |
| 5 | 12 | 13 | | 23.80 | 23.86 | 23.88 |
| 5 | 25 | 0 | | 23.80 | 23.79 | 23.83 |
| 5 | 1 | 0 | 16-QAM | 23.60 | 23.74 | 23.71 |
| 5 | 1 | 12 | | 23.79 | 23.83 | 23.83 |
| 5 | 1 | 24 | | 23.78 | 23.89 | 23.86 |
| 5 | 12 | 0 | | 22.69 | 22.70 | 22.72 |
| 5 | 12 | 7 | | 22.78 | 22.86 | 22.87 |
| 5 | 12 | 13 | | 22.81 | 22.82 | 22.83 |
| 5 | 25 | 0 | | 22.81 | 22.85 | 22.84 |
| 5 | 1 | 0 | 64-QAM | 22.41 | 22.47 | 22.53 |
| 5 | 1 | 12 | | 22.56 | 22.56 | 22.59 |
| 5 | 1 | 24 | | 22.59 | 22.63 | 22.64 |
| 5 | 12 | 0 | | 21.76 | 21.75 | 21.79 |
| 5 | 12 | 7 | | 21.90 | 21.89 | 21.91 |
| 5 | 12 | 13 | | 21.85 | 21.92 | 21.91 |
| 5 | 25 | 0 | | 21.86 | 21.88 | 21.87 |

| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | **24.68** | 24.52 | 24.47 |
| 20 | 1 | 49 | | 24.67 | 24.41 | 24.29 |
| 20 | 1 | 99 | | 24.62 | 24.47 | 24.18 |
| 20 | 50 | 0 | | 23.81 | 23.61 | 23.40 |
| 20 | 50 | 24 | | 23.77 | 23.65 | 23.47 |
| 20 | 50 | 50 | | 23.76 | 23.65 | 23.56 |
| 20 | 100 | 0 | | 23.77 | 23.62 | 23.48 |
| 20 | 1 | 0 | 16-QAM | 23.79 | 23.51 | 23.29 |
| 20 | 1 | 49 | | 23.71 | 23.61 | 23.42 |
| 20 | 1 | 99 | | 23.70 | 23.56 | 23.58 |
| 20 | 50 | 0 | | 22.81 | 22.65 | 22.45 |
| 20 | 50 | 24 | | 22.82 | 22.68 | 22.51 |
| 20 | 50 | 50 | | 22.84 | 22.67 | 22.60 |
| 20 | 100 | 0 | | 22.80 | 22.65 | 22.51 |
| 20 | 1 | 0 | 64-QAM | 22.42 | 22.14 | 21.91 |
| 20 | 1 | 49 | | 22.35 | 22.20 | 22.05 |
| 20 | 1 | 99 | | 22.32 | 22.18 | 22.20 |
| 20 | 50 | 0 | | 21.60 | 21.43 | 21.24 |
| 20 | 50 | 24 | | 21.61 | 21.48 | 21.31 |
| 20 | 50 | 50 | | 21.63 | 21.49 | 21.39 |
| 20 | 100 | 0 | | 21.69 | 21.52 | 21.41 |
| 15 | 1 | 0 | QPSK | 24.67 | 24.51 | 24.23 |
| 15 | 1 | 37 | | 24.65 | 24.52 | 24.35 |
| 15 | 1 | 74 | | 24.65 | 24.50 | 24.46 |
| 15 | 36 | 0 | | 23.76 | 23.62 | 23.40 |
| 15 | 36 | 20 | | 23.75 | 23.67 | 23.45 |
| 15 | 36 | 39 | | 23.75 | 23.65 | 23.50 |
| 15 | 75 | 0 | | 23.78 | 23.63 | 23.48 |
| 15 | 1 | 0 | 16-QAM | 23.77 | 23.57 | 23.31 |
| 15 | 1 | 37 | | 23.64 | 23.60 | 23.41 |
| 15 | 1 | 74 | | 23.75 | 23.59 | 23.54 |
| 15 | 36 | 0 | | 22.74 | 22.61 | 22.39 |
| 15 | 36 | 20 | | 22.74 | 22.63 | 22.44 |
| 15 | 36 | 39 | | 22.73 | 22.64 | 22.49 |
| 15 | 75 | 0 | | 22.82 | 22.64 | 22.49 |
| 15 | 1 | 0 | 64-QAM | 22.41 | 22.22 | 21.86 |
| 15 | 1 | 37 | | 22.34 | 22.23 | 22.03 |
| 15 | 1 | 74 | | 22.34 | 22.17 | 22.15 |
| 15 | 36 | 0 | | 21.61 | 21.50 | 21.27 |
| 15 | 36 | 20 | | 21.63 | 21.49 | 21.34 |
| 15 | 36 | 39 | | 21.63 | 21.52 | 21.37 |
| 15 | 75 | 0 | | 21.62 | 21.48 | 21.35 |

| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.45 | 24.43 | 24.21 |
| 10 | 1 | 25 | | 24.54 | 24.37 | 24.22 |
| 10 | 1 | 49 | | 24.45 | 24.41 | 24.20 |
| 10 | 25 | 0 | | 23.64 | 23.53 | 23.37 |
| 10 | 25 | 12 | | 23.64 | 23.53 | 23.35 |
| 10 | 25 | 25 | | 23.59 | 23.49 | 23.33 |
| 10 | 50 | 0 | | 23.63 | 23.52 | 23.37 |
| 10 | 1 | 0 | 16-QAM | 23.58 | 23.52 | 23.27 |
| 10 | 1 | 25 | | 23.61 | 23.46 | 23.31 |
| 10 | 1 | 49 | | 23.50 | 23.48 | 23.24 |
| 10 | 25 | 0 | | 22.68 | 22.54 | 22.40 |
| 10 | 25 | 12 | | 22.67 | 22.55 | 22.40 |
| 10 | 25 | 25 | | 22.65 | 22.50 | 22.35 |
| 10 | 50 | 0 | | 22.68 | 22.52 | 22.40 |
| 10 | 1 | 0 | 64-QAM | 22.18 | 22.06 | 21.90 |
| 10 | 1 | 25 | | 22.22 | 22.11 | 21.92 |
| 10 | 1 | 49 | | 22.14 | 22.06 | 21.87 |
| 10 | 25 | 0 | | 21.46 | 21.33 | 21.20 |
| 10 | 25 | 12 | | 21.48 | 21.37 | 21.20 |
| 10 | 25 | 25 | | 21.44 | 21.30 | 21.16 |
| 10 | 50 | 0 | | 21.47 | 21.32 | 21.17 |
| 5 | 1 | 0 | QPSK | 24.59 | 24.45 | 24.30 |
| 5 | 1 | 12 | | 24.61 | 24.48 | 24.27 |
| 5 | 1 | 24 | | 24.56 | 24.47 | 24.23 |
| 5 | 12 | 0 | | 23.70 | 23.49 | 23.36 |
| 5 | 12 | 7 | | 23.74 | 23.56 | 23.39 |
| 5 | 12 | 13 | | 23.72 | 23.57 | 23.37 |
| 5 | 25 | 0 | | 23.67 | 23.47 | 23.37 |
| 5 | 1 | 0 | 16-QAM | 23.65 | 23.51 | 23.38 |
| 5 | 1 | 12 | | 23.70 | 23.52 | 23.35 |
| 5 | 1 | 24 | | 23.67 | 23.55 | 23.38 |
| 5 | 12 | 0 | | 22.70 | 22.49 | 22.36 |
| 5 | 12 | 7 | | 22.73 | 22.56 | 22.38 |
| 5 | 12 | 13 | | 22.65 | 22.52 | 22.36 |
| 5 | 25 | 0 | | 22.72 | 22.54 | 22.42 |
| 5 | 1 | 0 | 64-QAM | 22.35 | 22.17 | 22.06 |
| 5 | 1 | 12 | | 22.33 | 22.20 | 22.02 |
| 5 | 1 | 24 | | 22.31 | 22.23 | 22.02 |
| 5 | 12 | 0 | | 21.52 | 21.33 | 21.23 |
| 5 | 12 | 7 | | 21.55 | 21.41 | 21.27 |
| 5 | 12 | 13 | | 21.50 | 21.37 | 21.22 |
| 5 | 25 | 0 | | 21.52 | 21.34 | 21.22 |

| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.49 | **24.55** | 24.46 |
| 20 | 1 | 49 | | 24.38 | 24.43 | 24.32 |
| 20 | 1 | 99 | | 24.37 | 24.39 | 24.20 |
| 20 | 50 | 0 | | 23.63 | 23.68 | 23.53 |
| 20 | 50 | 24 | | 23.56 | 23.59 | 23.51 |
| 20 | 50 | 50 | | 23.50 | 23.52 | 23.40 |
| 20 | 100 | 0 | | 23.56 | 23.60 | 23.50 |
| 20 | 1 | 0 | 16-QAM | 23.71 | 23.80 | 23.68 |
| 20 | 1 | 49 | | 23.67 | 23.67 | 23.59 |
| 20 | 1 | 99 | | 23.59 | 23.60 | 23.54 |
| 20 | 50 | 0 | | 22.59 | 22.63 | 22.52 |
| 20 | 50 | 24 | | 22.58 | 22.60 | 22.48 |
| 20 | 50 | 50 | | 22.51 | 22.52 | 22.41 |
| 20 | 100 | 0 | | 22.54 | 22.57 | 22.46 |
| 20 | 1 | 0 | 64-QAM | 22.67 | 22.74 | 22.59 |
| 20 | 1 | 49 | | 22.60 | 22.60 | 22.53 |
| 20 | 1 | 99 | | 22.55 | 22.57 | 22.49 |
| 20 | 50 | 0 | | 21.62 | 21.66 | 21.56 |
| 20 | 50 | 24 | | 21.57 | 21.60 | 21.50 |
| 20 | 50 | 50 | | 21.51 | 21.54 | 21.44 |
| 20 | 100 | 0 | | 21.55 | 21.59 | 21.48 |
| 15 | 1 | 0 | QPSK | 24.53 | 24.54 | 24.42 |
| 15 | 1 | 37 | | 24.40 | 24.43 | 24.30 |
| 15 | 1 | 74 | | 24.42 | 24.43 | 24.28 |
| 15 | 36 | 0 | | 23.60 | 23.64 | 23.52 |
| 15 | 36 | 20 | | 23.54 | 23.60 | 23.47 |
| 15 | 36 | 39 | | 23.49 | 23.54 | 23.41 |
| 15 | 75 | 0 | | 23.56 | 23.62 | 23.46 |
| 15 | 1 | 0 | 16-QAM | 23.78 | 23.84 | 23.69 |
| 15 | 1 | 37 | | 23.62 | 23.70 | 23.54 |
| 15 | 1 | 74 | | 23.65 | 23.65 | 23.53 |
| 15 | 36 | 0 | | 22.59 | 22.65 | 22.51 |
| 15 | 36 | 20 | | 22.55 | 22.58 | 22.46 |
| 15 | 36 | 39 | | 22.47 | 22.51 | 22.41 |
| 15 | 75 | 0 | | 22.53 | 22.58 | 22.47 |
| 15 | 1 | 0 | 64-QAM | 22.72 | 22.78 | 22.66 |
| 15 | 1 | 37 | | 22.58 | 22.69 | 22.53 |
| 15 | 1 | 74 | | 22.61 | 22.59 | 22.44 |
| 15 | 36 | 0 | | 21.64 | 21.69 | 21.54 |
| 15 | 36 | 20 | | 21.57 | 21.64 | 21.49 |
| 15 | 36 | 39 | | 21.52 | 21.55 | 21.43 |
| 15 | 75 | 0 | | 21.55 | 21.59 | 21.44 |

| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.30 | 24.35 | 24.18 |
| 10 | 1 | 25 | | 24.26 | 24.30 | 24.17 |
| 10 | 1 | 49 | | 24.28 | 24.33 | 24.21 |
| 10 | 25 | 0 | | 23.41 | 23.50 | 23.34 |
| 10 | 25 | 12 | | 23.42 | 23.49 | 23.33 |
| 10 | 25 | 25 | | 23.35 | 23.44 | 23.26 |
| 10 | 50 | 0 | | 23.36 | 23.46 | 23.32 |
| 10 | 1 | 0 | 16-QAM | 23.55 | 23.65 | 23.47 |
| 10 | 1 | 25 | | 23.51 | 23.53 | 23.43 |
| 10 | 1 | 49 | | 23.47 | 23.59 | 23.42 |
| 10 | 25 | 0 | | 22.40 | 22.51 | 22.35 |
| 10 | 25 | 12 | | 22.40 | 22.47 | 22.32 |
| 10 | 25 | 25 | | 22.35 | 22.41 | 22.26 |
| 10 | 50 | 0 | | 22.38 | 22.45 | 22.31 |
| 10 | 1 | 0 | 64-QAM | 22.50 | 22.53 | 22.40 |
| 10 | 1 | 25 | | 22.45 | 22.54 | 22.39 |
| 10 | 1 | 49 | | 22.41 | 22.54 | 22.36 |
| 10 | 25 | 0 | | 21.42 | 21.50 | 21.36 |
| 10 | 25 | 12 | | 21.42 | 21.47 | 21.34 |
| 10 | 25 | 25 | | 21.36 | 21.44 | 21.28 |
| 10 | 50 | 0 | | 21.40 | 21.49 | 21.35 |
| 5 | 1 | 0 | QPSK | 24.28 | 24.27 | 24.16 |
| 5 | 1 | 12 | | 24.30 | 24.36 | 24.21 |
| 5 | 1 | 24 | | 24.38 | 24.39 | 24.26 |
| 5 | 12 | 0 | | 23.42 | 23.45 | 23.27 |
| 5 | 12 | 7 | | 23.46 | 23.50 | 23.32 |
| 5 | 12 | 13 | | 23.47 | 23.48 | 23.35 |
| 5 | 25 | 0 | | 23.40 | 23.43 | 23.29 |
| 5 | 1 | 0 | 16-QAM | 23.51 | 23.51 | 23.36 |
| 5 | 1 | 12 | | 23.61 | 23.61 | 23.42 |
| 5 | 1 | 24 | | 23.66 | 23.65 | 23.46 |
| 5 | 12 | 0 | | 22.47 | 22.45 | 22.28 |
| 5 | 12 | 7 | | 22.46 | 22.51 | 22.30 |
| 5 | 12 | 13 | | 22.48 | 22.51 | 22.35 |
| 5 | 25 | 0 | | 22.45 | 22.44 | 22.28 |
| 5 | 1 | 0 | 64-QAM | 22.49 | 22.50 | 22.35 |
| 5 | 1 | 12 | | 22.52 | 22.56 | 22.37 |
| 5 | 1 | 24 | | 22.56 | 22.56 | 22.40 |
| 5 | 12 | 0 | | 21.51 | 21.53 | 21.31 |
| 5 | 12 | 7 | | 21.51 | 21.50 | 21.35 |
| 5 | 12 | 13 | | 21.51 | 21.56 | 21.39 |
| 5 | 25 | 0 | | 21.46 | 21.46 | 21.27 |

| LTE Band 66 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 3 | 1 | 0 | QPSK | 24.23 | 24.30 | 24.22 |
| 3 | 1 | 8 | | 24.37 | 24.39 | 24.30 |
| 3 | 1 | 14 | | 24.29 | 24.37 | 24.25 |
| 3 | 8 | 0 | | 23.43 | 23.43 | 23.34 |
| 3 | 8 | 4 | | 23.44 | 23.55 | 23.37 |
| 3 | 8 | 7 | | 23.41 | 23.51 | 23.35 |
| 3 | 15 | 0 | | 23.39 | 23.40 | 23.34 |
| 3 | 1 | 0 | 16-QAM | 23.48 | 23.53 | 23.43 |
| 3 | 1 | 8 | | 23.66 | 23.67 | 23.50 |
| 3 | 1 | 14 | | 23.57 | 23.63 | 23.45 |
| 3 | 8 | 0 | | 22.50 | 22.49 | 22.37 |
| 3 | 8 | 4 | | 22.49 | 22.61 | 22.39 |
| 3 | 8 | 7 | | 22.45 | 22.51 | 22.31 |
| 3 | 15 | 0 | | 22.42 | 22.43 | 22.34 |
| 3 | 1 | 0 | 64-QAM | 22.52 | 22.52 | 22.37 |
| 3 | 1 | 8 | | 22.58 | 22.64 | 22.40 |
| 3 | 1 | 14 | | 22.56 | 22.55 | 22.37 |
| 3 | 8 | 0 | | 21.49 | 21.47 | 21.37 |
| 3 | 8 | 4 | | 21.48 | 21.56 | 21.34 |
| 3 | 8 | 7 | | 21.46 | 21.52 | 21.34 |
| 3 | 15 | 0 | | 21.43 | 21.48 | 21.32 |
| 1.4 | 1 | 0 | QPSK | 24.15 | 24.24 | 24.06 |
| 1.4 | 1 | 3 | | 24.32 | 24.35 | 24.23 |
| 1.4 | 1 | 5 | | 24.24 | 24.28 | 24.13 |
| 1.4 | 3 | 0 | | 24.25 | 24.31 | 24.10 |
| 1.4 | 3 | 1 | | 24.29 | 24.33 | 24.21 |
| 1.4 | 3 | 3 | | 24.26 | 24.29 | 24.17 |
| 1.4 | 6 | 0 | | 23.32 | 23.42 | 23.22 |
| 1.4 | 1 | 0 | 16-QAM | 23.46 | 23.52 | 23.28 |
| 1.4 | 1 | 3 | | 23.60 | 23.58 | 23.43 |
| 1.4 | 1 | 5 | | 23.53 | 23.52 | 23.37 |
| 1.4 | 3 | 0 | | 23.31 | 23.34 | 23.10 |
| 1.4 | 3 | 1 | | 23.36 | 23.39 | 23.20 |
| 1.4 | 3 | 3 | | 23.32 | 23.34 | 23.16 |
| 1.4 | 6 | 0 | | 22.43 | 22.47 | 22.27 |
| 1.4 | 1 | 0 | 64-QAM | 22.41 | 22.50 | 22.25 |
| 1.4 | 1 | 3 | | 22.55 | 22.56 | 22.41 |
| 1.4 | 1 | 5 | | 22.48 | 22.45 | 22.32 |
| 1.4 | 3 | 0 | | 22.45 | 22.48 | 22.24 |
| 1.4 | 3 | 1 | | 22.51 | 22.51 | 22.33 |
| 1.4 | 3 | 3 | | 22.45 | 22.44 | 22.30 |
| 1.4 | 6 | 0 | | 21.32 | 21.44 | 21.21 |

| LTE Band 71 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | 24.33 | **24.37** | 24.27 |
| 20 | 1 | 49 | | 24.27 | 24.27 | 24.30 |
| 20 | 1 | 99 | | 24.26 | 24.35 | 24.28 |
| 20 | 50 | 0 | | 23.43 | 23.48 | 23.42 |
| 20 | 50 | 24 | | 23.38 | 23.41 | 23.37 |
| 20 | 50 | 50 | | 23.41 | 23.42 | 23.40 |
| 20 | 100 | 0 | | 23.40 | 23.43 | 23.41 |
| 20 | 1 | 0 | 16-QAM | 23.68 | 23.64 | 23.59 |
| 20 | 1 | 49 | | 23.59 | 23.57 | 23.64 |
| 20 | 1 | 99 | | 23.62 | 23.67 | 23.53 |
| 20 | 50 | 0 | | 22.40 | 22.35 | 22.38 |
| 20 | 50 | 24 | | 22.46 | 22.45 | 22.49 |
| 20 | 50 | 50 | | 22.48 | 22.51 | 22.44 |
| 20 | 100 | 0 | | 22.46 | 22.43 | 22.45 |
| 20 | 1 | 0 | 64-QAM | 22.37 | 22.63 | 22.55 |
| 20 | 1 | 49 | | 22.58 | 22.54 | 22.60 |
| 20 | 1 | 99 | | 22.54 | 22.62 | 22.49 |
| 20 | 50 | 0 | | 21.42 | 21.39 | 21.39 |
| 20 | 50 | 24 | | 21.49 | 21.46 | 21.49 |
| 20 | 50 | 50 | | 21.47 | 21.53 | 21.47 |
| 20 | 100 | 0 | | 21.48 | 21.45 | 21.48 |
| 15 | 1 | 0 | QPSK | 24.28 | 24.28 | 24.29 |
| 15 | 1 | 37 | | 24.29 | 24.22 | 24.26 |
| 15 | 1 | 74 | | 24.27 | 24.17 | 24.28 |
| 15 | 36 | 0 | | 23.40 | 23.39 | 23.37 |
| 15 | 36 | 20 | | 23.42 | 23.40 | 23.41 |
| 15 | 36 | 39 | | 23.37 | 23.37 | 23.38 |
| 15 | 75 | 0 | | 23.40 | 23.37 | 23.40 |
| 15 | 1 | 0 | 16-QAM | 23.61 | 23.57 | 23.61 |
| 15 | 1 | 37 | | 23.57 | 23.56 | 23.64 |
| 15 | 1 | 74 | | 23.58 | 23.45 | 23.57 |
| 15 | 36 | 0 | | 22.41 | 22.42 | 22.44 |
| 15 | 36 | 20 | | 22.46 | 22.46 | 22.47 |
| 15 | 36 | 39 | | 22.45 | 22.41 | 22.44 |
| 15 | 75 | 0 | | 22.43 | 22.43 | 22.46 |
| 15 | 1 | 0 | 64-QAM | 22.34 | 22.57 | 22.62 |
| 15 | 1 | 37 | | 22.51 | 22.56 | 22.60 |
| 15 | 1 | 74 | | 22.54 | 22.37 | 22.53 |
| 15 | 36 | 0 | | 21.48 | 21.47 | 21.49 |
| 15 | 36 | 20 | | 21.50 | 21.47 | 21.51 |
| 15 | 36 | 39 | | 21.49 | 21.46 | 21.48 |
| 15 | 75 | 0 | | 21.46 | 21.43 | 21.47 |

| LTE Band 71 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 24.15 | 24.07 | 24.22 |
| 10 | 1 | 25 | | 24.12 | 24.10 | 24.15 |
| 10 | 1 | 49 | | 24.12 | 24.18 | 24.07 |
| 10 | 25 | 0 | | 23.21 | 23.21 | 23.22 |
| 10 | 25 | 12 | | 23.22 | 23.24 | 23.23 |
| 10 | 25 | 25 | | 23.30 | 23.22 | 23.23 |
| 10 | 50 | 0 | | 23.21 | 23.24 | 23.22 |
| 10 | 1 | 0 | 16-QAM | 23.47 | 23.48 | 23.52 |
| 10 | 1 | 25 | | 23.43 | 23.45 | 23.48 |
| 10 | 1 | 49 | | 23.38 | 23.46 | 23.33 |
| 10 | 25 | 0 | | 22.26 | 22.25 | 22.28 |
| 10 | 25 | 12 | | 22.27 | 22.28 | 22.27 |
| 10 | 25 | 25 | | 22.33 | 22.25 | 22.27 |
| 10 | 50 | 0 | | 22.24 | 22.27 | 22.27 |
| 10 | 1 | 0 | 64-QAM | 22.26 | 22.44 | 22.55 |
| 10 | 1 | 25 | | 22.39 | 22.42 | 22.43 |
| 10 | 1 | 49 | | 22.39 | 22.43 | 22.37 |
| 10 | 25 | 0 | | 21.28 | 21.26 | 21.29 |
| 10 | 25 | 12 | | 21.27 | 21.30 | 21.32 |
| 10 | 25 | 25 | | 21.35 | 21.28 | 21.30 |
| 10 | 50 | 0 | | 21.26 | 21.27 | 21.31 |
| 5 | 1 | 0 | QPSK | 24.13 | 24.03 | 24.02 |
| 5 | 1 | 12 | | 24.17 | 24.17 | 24.16 |
| 5 | 1 | 24 | | 24.14 | 24.18 | 24.16 |
| 5 | 12 | 0 | | 23.30 | 23.19 | 23.15 |
| 5 | 12 | 7 | | 23.35 | 23.31 | 23.25 |
| 5 | 12 | 13 | | 23.32 | 23.33 | 23.23 |
| 5 | 25 | 0 | | 23.29 | 23.27 | 23.18 |
| 5 | 1 | 0 | 16-QAM | 23.46 | 23.34 | 23.34 |
| 5 | 1 | 12 | | 23.48 | 23.47 | 23.45 |
| 5 | 1 | 24 | | 23.46 | 23.48 | 23.43 |
| 5 | 12 | 0 | | 22.33 | 22.22 | 22.20 |
| 5 | 12 | 7 | | 22.37 | 22.37 | 22.32 |
| 5 | 12 | 13 | | 22.35 | 22.36 | 22.27 |
| 5 | 25 | 0 | | 22.33 | 22.29 | 22.20 |
| 5 | 1 | 0 | 64-QAM | 22.45 | 22.33 | 22.38 |
| 5 | 1 | 12 | | 22.46 | 22.44 | 22.42 |
| 5 | 1 | 24 | | 22.42 | 22.50 | 22.42 |
| 5 | 12 | 0 | | 21.39 | 21.25 | 21.26 |
| 5 | 12 | 7 | | 21.44 | 21.42 | 21.38 |
| 5 | 12 | 13 | | 21.40 | 21.41 | 21.35 |
| 5 | 25 | 0 | | 21.36 | 21.29 | 21.22 |

**<For HPUE>**

| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 20 | 1 | 0 | QPSK | **26.13** | 25.94 | 25.72 |
| 20 | 1 | 49 | | 26.03 | 25.73 | 25.36 |
| 20 | 1 | 99 | | 26.03 | 25.70 | 25.28 |
| 20 | 50 | 0 | | 25.27 | 24.99 | 24.75 |
| 20 | 50 | 24 | | 25.23 | 24.98 | 24.59 |
| 20 | 50 | 50 | | 25.24 | 24.98 | 24.64 |
| 20 | 100 | 0 | | 25.25 | 24.97 | 24.58 |
| 20 | 1 | 0 | 16-QAM | 25.42 | 25.01 | 24.55 |
| 20 | 1 | 49 | | 25.29 | 25.04 | 24.62 |
| 20 | 1 | 99 | | 25.32 | 24.96 | 24.79 |
| 20 | 50 | 0 | | 24.28 | 24.00 | 23.59 |
| 20 | 50 | 24 | | 24.28 | 24.02 | 23.62 |
| 20 | 50 | 50 | | 24.28 | 24.00 | 23.69 |
| 20 | 100 | 0 | | 24.25 | 24.00 | 23.62 |
| 20 | 1 | 0 | 64-QAM | 24.33 | 23.95 | 23.48 |
| 20 | 1 | 49 | | 24.23 | 23.96 | 23.57 |
| 20 | 1 | 99 | | 24.18 | 23.88 | 23.72 |
| 20 | 50 | 0 | | 23.28 | 22.98 | 22.59 |
| 20 | 50 | 24 | | 23.28 | 23.03 | 22.62 |
| 20 | 50 | 50 | | 23.30 | 23.00 | 22.70 |
| 20 | 100 | 0 | | 23.27 | 22.98 | 22.64 |
| 15 | 1 | 0 | QPSK | 26.12 | 25.82 | 25.38 |
| 15 | 1 | 37 | | 26.11 | 25.87 | 25.47 |
| 15 | 1 | 74 | | 26.09 | 25.79 | 25.53 |
| 15 | 36 | 0 | | 25.24 | 24.99 | 24.56 |
| 15 | 36 | 20 | | 25.28 | 24.97 | 24.62 |
| 15 | 36 | 39 | | 25.28 | 25.01 | 24.63 |
| 15 | 75 | 0 | | 25.26 | 24.99 | 24.60 |
| 15 | 1 | 0 | 16-QAM | 25.40 | 25.07 | 24.59 |
| 15 | 1 | 37 | | 25.38 | 25.10 | 24.70 |
| 15 | 1 | 74 | | 25.34 | 25.01 | 24.76 |
| 15 | 36 | 0 | | 24.24 | 23.92 | 23.56 |
| 15 | 36 | 20 | | 24.29 | 23.99 | 23.61 |
| 15 | 36 | 39 | | 24.25 | 24.00 | 23.63 |
| 15 | 75 | 0 | | 24.29 | 24.03 | 23.64 |
| 15 | 1 | 0 | 64-QAM | 24.33 | 24.00 | 23.49 |
| 15 | 1 | 37 | | 24.31 | 24.01 | 23.64 |
| 15 | 1 | 74 | | 24.25 | 23.97 | 23.67 |
| 15 | 36 | 0 | | 23.26 | 22.98 | 22.57 |
| 15 | 36 | 20 | | 23.32 | 23.03 | 22.65 |
| 15 | 36 | 39 | | 23.28 | 23.02 | 22.66 |
| 15 | 75 | 0 | | 23.30 | 23.01 | 22.64 |

| LTE Band 41 Maximum Average Power [dBm] | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | 25.96 | 25.67 | 25.28 |
| 10 | 1 | 25 | | 25.94 | 25.65 | 25.28 |
| 10 | 1 | 49 | | 25.92 | 25.63 | 25.27 |
| 10 | 25 | 0 | | 25.16 | 24.88 | 24.50 |
| 10 | 25 | 12 | | 25.14 | 24.88 | 24.47 |
| 10 | 25 | 25 | | 25.10 | 24.85 | 24.47 |
| 10 | 50 | 0 | | 25.16 | 24.85 | 24.49 |
| 10 | 1 | 0 | 16-QAM | 25.27 | 24.96 | 24.55 |
| 10 | 1 | 25 | | 25.21 | 24.96 | 24.56 |
| 10 | 1 | 49 | | 25.17 | 24.90 | 24.51 |
| 10 | 25 | 0 | | 24.21 | 23.94 | 23.56 |
| 10 | 25 | 12 | | 24.21 | 23.96 | 23.55 |
| 10 | 25 | 25 | | 24.16 | 23.91 | 23.52 |
| 10 | 50 | 0 | | 24.20 | 23.90 | 23.53 |
| 10 | 1 | 0 | 64-QAM | 24.20 | 23.90 | 23.48 |
| 10 | 1 | 25 | | 24.15 | 23.89 | 23.47 |
| 10 | 1 | 49 | | 24.10 | 23.84 | 23.43 |
| 10 | 25 | 0 | | 23.26 | 22.97 | 22.58 |
| 10 | 25 | 12 | | 23.26 | 22.96 | 22.58 |
| 10 | 25 | 25 | | 23.22 | 22.92 | 22.57 |
| 10 | 50 | 0 | | 23.20 | 22.91 | 22.52 |
| 5 | 1 | 0 | QPSK | 26.00 | 25.69 | 25.34 |
| 5 | 1 | 12 | | 25.99 | 25.72 | 25.29 |
| 5 | 1 | 24 | | 25.96 | 25.71 | 25.30 |
| 5 | 12 | 0 | | 25.19 | 24.83 | 24.47 |
| 5 | 12 | 7 | | 25.21 | 24.90 | 24.51 |
| 5 | 12 | 13 | | 25.22 | 24.89 | 24.49 |
| 5 | 25 | 0 | | 25.19 | 24.82 | 24.48 |
| 5 | 1 | 0 | 16-QAM | 25.26 | 24.95 | 24.58 |
| 5 | 1 | 12 | | 25.29 | 24.99 | 24.56 |
| 5 | 1 | 24 | | 25.26 | 25.00 | 24.53 |
| 5 | 12 | 0 | | 24.23 | 23.87 | 23.50 |
| 5 | 12 | 7 | | 24.25 | 23.95 | 23.57 |
| 5 | 12 | 13 | | 24.25 | 23.92 | 23.53 |
| 5 | 25 | 0 | | 24.28 | 23.89 | 23.55 |
| 5 | 1 | 0 | 64-QAM | 24.20 | 23.89 | 23.50 |
| 5 | 1 | 12 | | 24.22 | 23.91 | 23.51 |
| 5 | 1 | 24 | | 24.18 | 23.90 | 23.49 |
| 5 | 12 | 0 | | 23.26 | 22.91 | 22.55 |
| 5 | 12 | 7 | | 23.28 | 22.98 | 22.56 |
| 5 | 12 | 13 | | 23.29 | 22.95 | 22.57 |
| 5 | 25 | 0 | | 23.25 | 22.93 | 22.53 |

| LTE Band 7_CA Maximum Average Power [dBm] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | PCC | | SCC | | Mod | Lowest | Middle | Highest |
| | RB Size | RB Offset | RB Size | RB Offset | | | | |
| 20+20 | 100 | 0 | 100 | 0 | QPSK | 22.89 | 22.87 | 22.86 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.15 | 11.14 | 11.14 |
| 20+20 | 1 | 99 | 1 | 0 | | **24.88** | 24.86 | 24.80 |
| 20+20 | 100 | 0 | 100 | 0 | 16-QAM | 21.82 | 21.78 | 21.80 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.72 | 11.62 | 11.71 |
| 20+20 | 1 | 99 | 1 | 0 | | 24.52 | 24.52 | 24.47 |
| 20+20 | 100 | 0 | 100 | 0 | 64-QAM | 20.84 | 20.76 | 20.81 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.56 | 11.53 | 11.53 |
| 20+20 | 1 | 99 | 1 | 0 | | 21.66 | 21.61 | 21.59 |
| 20+15 | 100 | 0 | 75 | 0 | QPSK | 22.88 | 22.89 | 22.87 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.05 | 11.09 | 11.05 |
| 20+15 | 1 | 99 | 1 | 0 | | 24.83 | 24.78 | 24.78 |
| 20+15 | 100 | 0 | 75 | 0 | 16-QAM | 21.82 | 21.72 | 21.81 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.69 | 11.63 | 11.72 |
| 20+15 | 1 | 99 | 1 | 0 | | 24.42 | 24.50 | 24.48 |
| 20+15 | 100 | 0 | 75 | 0 | 64-QAM | 20.79 | 20.74 | 20.82 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.49 | 11.50 | 11.55 |
| 20+15 | 1 | 99 | 1 | 0 | | 21.64 | 21.60 | 21.61 |
| 15+20 | 75 | 0 | 100 | 0 | QPSK | 22.84 | 22.89 | 22.80 |
| 15+20 | 1 | 0 | 1 | 99 | | 10.97 | 11.08 | 10.97 |
| 15+20 | 1 | 74 | 1 | 0 | | 24.78 | 24.70 | 24.77 |
| 15+20 | 75 | 0 | 100 | 0 | 16-QAM | 21.78 | 21.72 | 21.76 |
| 15+20 | 1 | 0 | 1 | 99 | | 11.68 | 11.60 | 11.71 |
| 15+20 | 1 | 74 | 1 | 0 | | 24.33 | 24.49 | 24.46 |
| 15+20 | 75 | 0 | 100 | 0 | 64-QAM | 20.71 | 20.65 | 20.76 |
| 15+20 | 1 | 0 | 1 | 99 | | 11.43 | 11.44 | 11.53 |
| 15+20 | 1 | 74 | 1 | 0 | | 21.63 | 21.53 | 21.58 |

| LTE Band 7_CA Maximum Average Power [dBm] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | PCC | | SCC | | Mod | Lowest | Middle | Highest |
| | RB Size | RB Offset | RB Size | RB Offset | | | | |
| 20+10 | 100 | 0 | 75 | 0 | QPSK | 22.83 | 22.81 | 22.77 |
| 20+10 | 1 | 0 | 1 | 74 | | 11.04 | 10.99 | 11.03 |
| 20+10 | 1 | 99 | 1 | 0 | | 24.80 | 24.69 | 24.74 |
| 20+10 | 100 | 0 | 75 | 0 | 16-QAM | 21.72 | 21.62 | 21.79 |
| 20+10 | 1 | 0 | 1 | 74 | | 11.68 | 11.55 | 11.67 |
| 20+10 | 1 | 99 | 1 | 0 | | 24.33 | 24.47 | 24.38 |
| 20+10 | 100 | 0 | 75 | 0 | 64-QAM | 20.72 | 20.70 | 20.79 |
| 20+10 | 1 | 0 | 1 | 74 | | 11.47 | 11.48 | 11.49 |
| 20+10 | 1 | 99 | 1 | 0 | | 21.58 | 21.54 | 21.52 |
| 10+20 | 75 | 0 | 100 | 0 | QPSK | 22.88 | 22.88 | 22.82 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.02 | 11.05 | 11.01 |
| 10+20 | 1 | 74 | 1 | 0 | | 24.79 | 24.76 | 24.76 |
| 10+20 | 75 | 0 | 100 | 0 | 16-QAM | 21.80 | 21.63 | 21.78 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.67 | 11.55 | 11.70 |
| 10+20 | 1 | 74 | 1 | 0 | | 24.39 | 24.47 | 24.46 |
| 10+20 | 75 | 0 | 100 | 0 | 64-QAM | 20.79 | 20.69 | 20.74 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.47 | 11.40 | 11.49 |
| 10+20 | 1 | 74 | 1 | 0 | | 21.62 | 21.52 | 21.60 |
| 15+15 | 75 | 0 | 100 | 0 | QPSK | 22.78 | 22.84 | 22.84 |
| 15+15 | 1 | 0 | 1 | 99 | | 11.03 | 11.09 | 10.97 |
| 15+15 | 1 | 74 | 1 | 0 | | 24.83 | 24.71 | 24.74 |
| 15+15 | 75 | 0 | 100 | 0 | 16-QAM | 21.72 | 21.69 | 21.80 |
| 15+15 | 1 | 0 | 1 | 99 | | 11.68 | 11.56 | 11.63 |
| 15+15 | 1 | 74 | 1 | 0 | | 24.39 | 24.42 | 24.39 |
| 15+15 | 75 | 0 | 100 | 0 | 64-QAM | 20.70 | 20.72 | 20.78 |
| 15+15 | 1 | 0 | 1 | 99 | | 11.43 | 11.45 | 11.50 |
| 15+15 | 1 | 74 | 1 | 0 | | 21.64 | 21.51 | 21.57 |
| 15+10 | 75 | 0 | 100 | 0 | QPSK | 22.79 | 22.85 | 22.87 |
| 15+10 | 1 | 0 | 1 | 99 | | 10.97 | 11.00 | 10.95 |
| 15+10 | 1 | 74 | 1 | 0 | | 24.74 | 24.72 | 24.68 |
| 15+10 | 75 | 0 | 100 | 0 | 16-QAM | 21.76 | 21.67 | 21.73 |
| 15+10 | 1 | 0 | 1 | 99 | | 11.63 | 11.60 | 11.70 |
| 15+10 | 1 | 74 | 1 | 0 | | 24.37 | 24.43 | 24.43 |
| 15+10 | 75 | 0 | 100 | 0 | 64-QAM | 20.76 | 20.64 | 20.76 |
| 15+10 | 1 | 0 | 1 | 99 | | 11.44 | 11.43 | 11.48 |
| 15+10 | 1 | 74 | 1 | 0 | | 21.59 | 21.52 | 21.61 |

## Conducted Output Power(Average power) for G020Q

| LTE Band 41_CA Maximum Average Power [dBm] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | PCC | | SCC | | Mod | Lowest | Middle | Highest |
| | RB Size | RB Offset | RB Size | RB Offset | | | | |
| 20+20 | 100 | 0 | 100 | 0 | QPSK | 22.80 | 22.87 | 22.80 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.09 | 11.04 | 11.11 |
| 20+20 | 1 | 99 | 1 | 0 | | **24.82** | 24.80 | 24.74 |
| 20+20 | 100 | 0 | 100 | 0 | 16-QAM | 21.82 | 21.77 | 21.74 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.63 | 11.59 | 11.62 |
| 20+20 | 1 | 99 | 1 | 0 | | 24.49 | 24.46 | 24.46 |
| 20+20 | 100 | 0 | 100 | 0 | 64-QAM | 20.74 | 20.67 | 20.76 |
| 20+20 | 1 | 0 | 1 | 99 | | 11.56 | 11.50 | 11.51 |
| 20+20 | 1 | 99 | 1 | 0 | | 21.60 | 21.51 | 21.49 |
| 20+15 | 100 | 0 | 75 | 0 | QPSK | 22.86 | 22.82 | 22.84 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.02 | 11.08 | 10.97 |
| 20+15 | 1 | 99 | 1 | 0 | | 24.75 | 24.69 | 24.69 |
| 20+15 | 100 | 0 | 75 | 0 | 16-QAM | 21.78 | 21.64 | 21.76 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.66 | 11.62 | 11.66 |
| 20+15 | 1 | 99 | 1 | 0 | | 24.38 | 24.43 | 24.48 |
| 20+15 | 100 | 0 | 75 | 0 | 64-QAM | 20.70 | 20.69 | 20.79 |
| 20+15 | 1 | 0 | 1 | 74 | | 11.47 | 11.42 | 11.51 |
| 20+15 | 1 | 99 | 1 | 0 | | 21.62 | 21.52 | 21.61 |
| 15+20 | 75 | 0 | 100 | 0 | QPSK | 22.85 | 22.85 | 22.84 |
| 15+20 | 1 | 0 | 1 | 99 | | 10.95 | 11.05 | 11.03 |
| 15+20 | 1 | 74 | 1 | 0 | | 24.73 | 24.75 | 24.75 |
| 15+20 | 75 | 0 | 100 | 0 | 16-QAM | 21.78 | 21.70 | 21.72 |
| 15+20 | 1 | 0 | 1 | 99 | | 11.61 | 11.57 | 11.69 |
| 15+20 | 1 | 74 | 1 | 0 | | 24.32 | 24.41 | 24.48 |
| 15+20 | 75 | 0 | 100 | 0 | 64-QAM | 20.70 | 20.66 | 20.74 |
| 15+20 | 1 | 0 | 1 | 99 | | 11.42 | 11.40 | 11.47 |
| 15+20 | 1 | 74 | 1 | 0 | | 21.56 | 21.50 | 21.57 |

| LTE Band 41_CA Maximum Average Power [dBm] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | PCC | | SCC | | Mod | Lowest | Middle | Highest |
| | RB Size | RB Offset | RB Size | RB Offset | | | | |
| 20+10 | 100 | 0 | 50 | 0 | QPSK | 22.83 | 22.85 | 22.87 |
| 20+10 | 1 | 0 | 1 | 49 | | 11.01 | 11.02 | 11.03 |
| 20+10 | 1 | 99 | 1 | 0 | | 24.78 | 24.78 | 24.74 |
| 20+10 | 100 | 0 | 50 | 0 | 16-QAM | 21.72 | 21.68 | 21.79 |
| 20+10 | 1 | 0 | 1 | 49 | | 11.59 | 11.62 | 11.72 |
| 20+10 | 1 | 99 | 1 | 0 | | 24.42 | 24.40 | 24.45 |
| 20+10 | 100 | 0 | 50 | 0 | 64-QAM | 20.78 | 20.73 | 20.72 |
| 20+10 | 1 | 0 | 1 | 49 | | 11.45 | 11.41 | 11.53 |
| 20+10 | 1 | 99 | 1 | 0 | | 21.59 | 21.57 | 21.61 |
| 10+20 | 50 | 0 | 100 | 0 | QPSK | 22.88 | 22.85 | 22.77 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.01 | 11.09 | 11.05 |
| 10+20 | 1 | 49 | 1 | 0 | | **24.82** | 24.68 | 24.75 |
| 10+20 | 50 | 0 | 100 | 0 | 16-QAM | 21.78 | 21.72 | 21.80 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.60 | 11.55 | 11.72 |
| 10+20 | 1 | 49 | 1 | 0 | | 24.34 | 24.47 | 24.43 |
| 10+20 | 50 | 0 | 100 | 0 | 64-QAM | 20.69 | 20.73 | 20.76 |
| 10+20 | 1 | 0 | 1 | 99 | | 11.41 | 11.47 | 11.46 |
| 10+20 | 1 | 49 | 1 | 0 | | 21.59 | 21.58 | 21.59 |
| 20+5 | 100 | 0 | 25 | 0 | QPSK | 22.78 | 22.82 | 22.77 |
| 20+5 | 1 | 0 | 1 | 24 | | 10.97 | 11.08 | 10.98 |
| 20+5 | 1 | 99 | 1 | 0 | | 24.74 | 24.78 | 24.71 |
| 20+5 | 100 | 0 | 25 | 0 | 16-QAM | 21.81 | 21.69 | 21.76 |
| 20+5 | 1 | 0 | 1 | 24 | | 11.67 | 11.58 | 11.65 |
| 20+5 | 1 | 99 | 1 | 0 | | 24.36 | 24.40 | 24.46 |
| 20+5 | 100 | 0 | 25 | 0 | 64-QAM | 20.77 | 20.71 | 20.80 |
| 20+5 | 1 | 0 | 1 | 24 | | 11.40 | 11.45 | 11.45 |
| 20+5 | 1 | 99 | 1 | 0 | | 21.55 | 21.55 | 21.57 |
| 5+20 | 25 | 0 | 100 | 0 | QPSK | 22.85 | 22.83 | 22.77 |
| 5+20 | 1 | 0 | 1 | 99 | | 11.03 | 11.08 | 10.98 |
| 5+20 | 1 | 24 | 1 | 0 | | 24.76 | 24.69 | 24.70 |
| 5+20 | 25 | 0 | 100 | 0 | 16-QAM | 21.78 | 21.63 | 21.76 |
| 5+20 | 1 | 0 | 1 | 99 | | 11.62 | 11.60 | 11.63 |
| 5+20 | 1 | 24 | 1 | 0 | | 24.40 | 24.47 | 24.47 |
| 5+20 | 25 | 0 | 100 | 0 | 64-QAM | 20.71 | 20.74 | 20.74 |
| 5+20 | 1 | 0 | 1 | 99 | | 11.41 | 11.47 | 11.46 |
| 5+20 | 1 | 24 | 1 | 0 | | 21.57 | 21.60 | 21.59 |

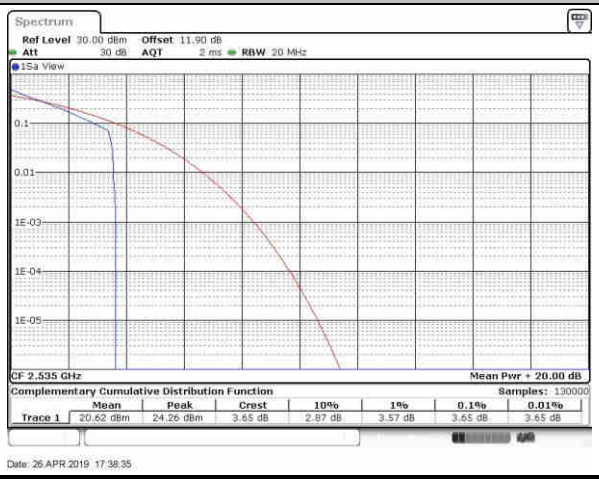
| LTE Band 41_CA Maximum Average Power [dBm] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | PCC | | SCC | | Mod | Lowest | Middle | Highest |
| | RB Size | RB Offset | RB Size | RB Offset | | | | |
| 15+10 | 75 | 0 | 50 | 0 | QPSK | 22.78 | 22.81 | 22.80 |
| 15+10 | 1 | 0 | 1 | 49 | | 10.95 | 11.06 | 10.98 |
| 15+10 | 1 | 74 | 1 | 0 | | 24.80 | 24.70 | 24.73 |
| 15+10 | 75 | 0 | 50 | 0 | 16-QAM | 21.76 | 21.72 | 21.71 |
| 15+10 | 1 | 0 | 1 | 49 | | 11.69 | 11.57 | 11.62 |
| 15+10 | 1 | 74 | 1 | 0 | | 24.32 | 24.49 | 24.47 |
| 15+10 | 75 | 0 | 50 | 0 | 64-QAM | 20.78 | 20.68 | 20.77 |
| 15+10 | 1 | 0 | 1 | 49 | | 11.40 | 11.40 | 11.51 |
| 15+10 | 1 | 74 | 1 | 0 | | 21.56 | 21.58 | 21.51 |
| 10+15 | 50 | 0 | 75 | 0 | QPSK | 22.83 | 22.83 | 22.79 |
| 10+15 | 1 | 0 | 1 | 74 | | 11.03 | 11.08 | 11.03 |
| 10+15 | 1 | 49 | 1 | 0 | | **24.82** | 24.74 | 24.71 |
| 10+15 | 50 | 0 | 75 | 0 | 16-QAM | 21.80 | 21.62 | 21.79 |
| 10+15 | 1 | 0 | 1 | 74 | | 11.60 | 11.59 | 11.62 |
| 10+15 | 1 | 49 | 1 | 0 | | 24.32 | 24.46 | 24.43 |
| 10+15 | 50 | 0 | 75 | 0 | 64-QAM | 20.77 | 20.71 | 20.76 |
| 10+15 | 1 | 0 | 1 | 74 | | 11.43 | 11.49 | 11.45 |
| 10+15 | 1 | 49 | 1 | 0 | | 21.63 | 21.56 | 21.53 |
| 15+15 | 75 | 0 | 75 | 0 | QPSK | 22.79 | 22.79 | 22.83 |
| 15+15 | 1 | 0 | 1 | 74 | | 11.02 | 11.08 | 10.95 |
| 15+15 | 1 | 74 | 1 | 0 | | 24.74 | 24.70 | 24.78 |
| 15+15 | 75 | 0 | 75 | 0 | 16-QAM | 21.73 | 21.63 | 21.73 |
| 15+15 | 1 | 0 | 1 | 74 | | 11.69 | 11.57 | 11.65 |
| 15+15 | 1 | 74 | 1 | 0 | | 24.35 | 24.45 | 24.47 |
| 15+15 | 75 | 0 | 75 | 0 | 64-QAM | 20.69 | 20.70 | 20.75 |
| 15+15 | 1 | 0 | 1 | 74 | | 11.49 | 11.50 | 11.47 |
| 15+15 | 1 | 74 | 1 | 0 | | 21.64 | 21.56 | 21.59 |

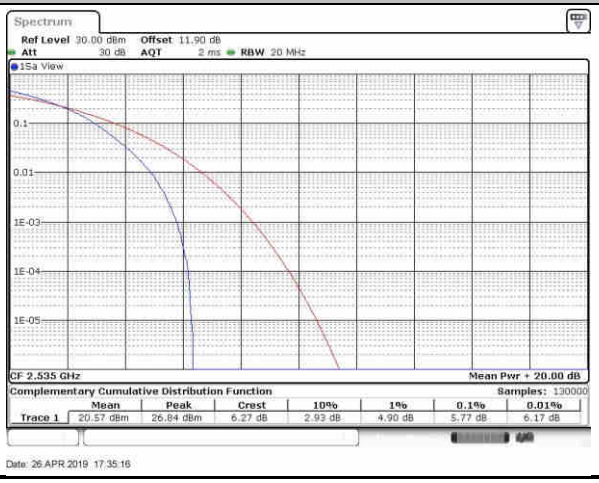
# For G020P

## LTE Band 7

## Peak-to-Average Ratio

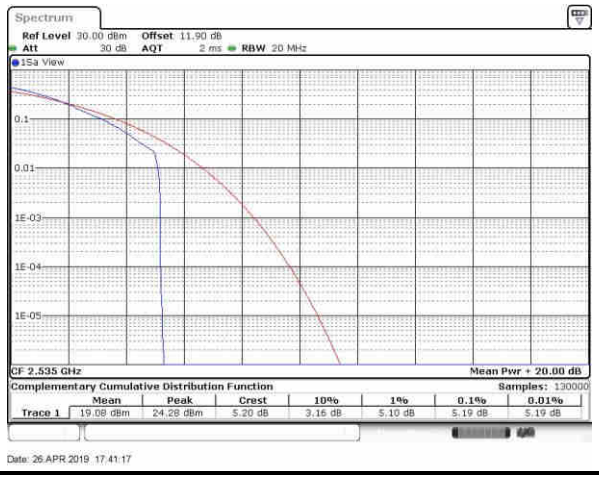
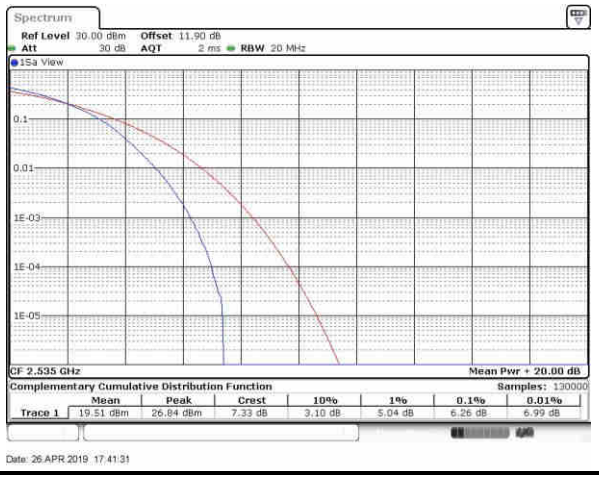
| Mode | LTE Band 7 / 20MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | 3.51 | 4.70 | 4.38 | 5.68 | PASS |
| Middle CH | 3.65 | 4.72 | 4.52 | 5.77 | |
| Highest CH | 3.54 | 4.72 | 4.00 | 5.86 | |
| Mode | LTE Band 7 / 20MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | 5.04 | 6.29 | - | - | PASS |
| Middle CH | 5.19 | 6.26 | - | - | |
| Highest CH | 5.07 | 6.55 | - | - | |

| LTE Band 7 / 20MHz / QPSK | |
|---|---|
| Middle Channel / 1RB | Middle Channel / Full RB |
|  |  |

| LTE Band 7 / 20MHz / 16QAM | |
|---|---|
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |





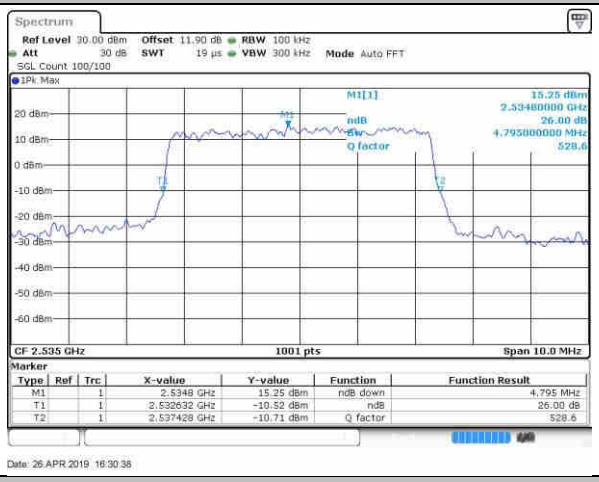
| LTE Band 7 / 20MHz / 64QAM | |
|---|---|
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |

# 26dB Bandwidth

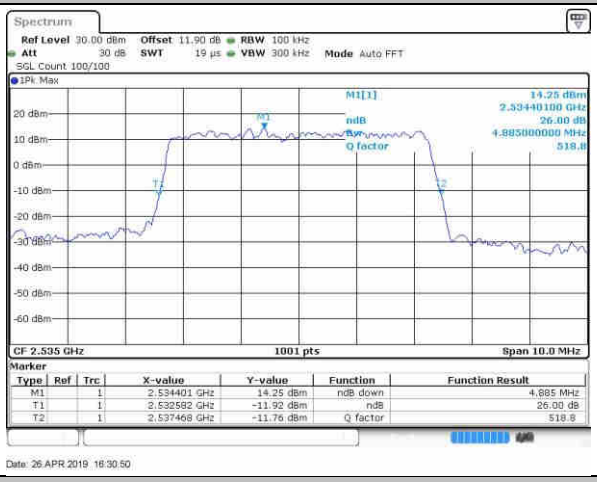
| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.92 | 4.90 | 9.81 | 9.83 | 14.45 | 14.48 | 18.66 | 19.18 |
| Middle CH | - | - | - | - | 4.80 | 4.89 | 9.77 | 9.95 | 14.36 | 14.36 | 19.14 | 19.14 |
| Highest CH | - | - | - | - | 4.94 | 4.90 | 9.73 | 9.95 | 14.24 | 14.54 | 19.42 | 19.26 |
| Mode | LTE Band 7 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.88 | - | 9.85 | - | 14.33 | - | 18.74 | - |
| Middle CH | - | - | - | - | 4.79 | - | 9.79 | - | 14.51 | - | 19.18 | - |
| Highest CH | - | - | - | - | 4.84 | - | 9.65 | - | 14.18 | - | 18.90 | - |

## LTE Band 7

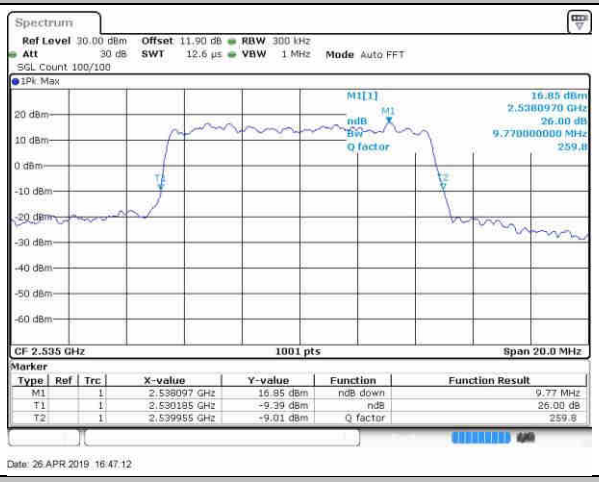
### Middle Channel / 5MHz / QPSK



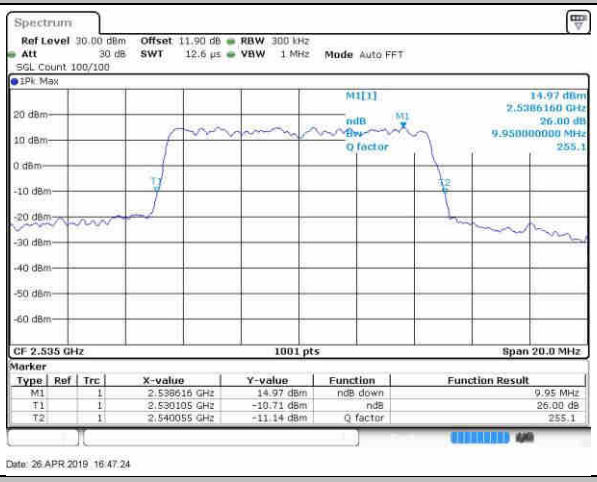

### Middle Channel / 5MHz / 16QAM



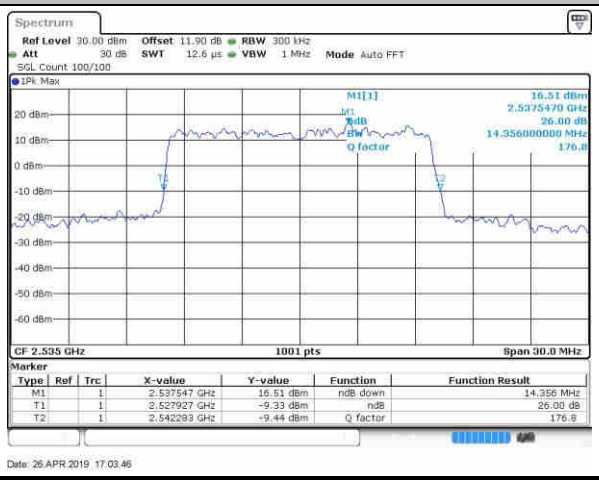

### Middle Channel / 10MHz / QPSK



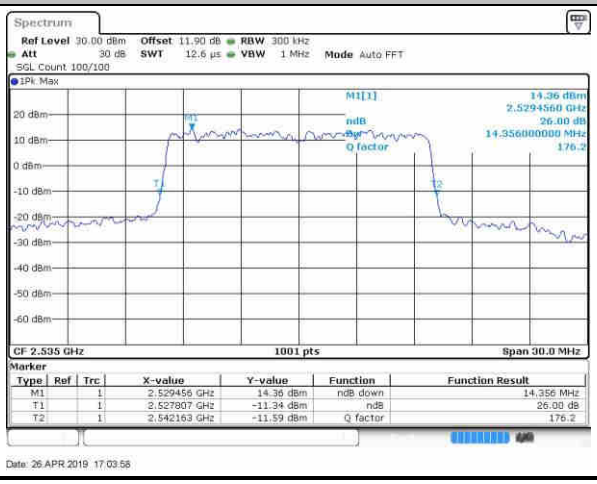

### Middle Channel / 10MHz / 16QAM




### Middle Channel / 15MHz / QPSK

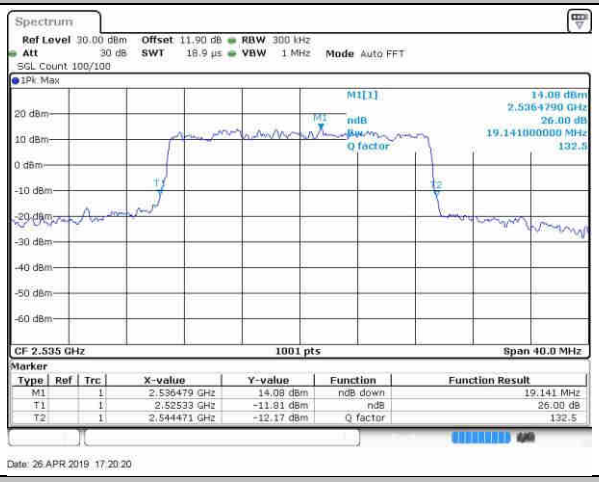



### Middle Channel / 15MHz / 16QAM

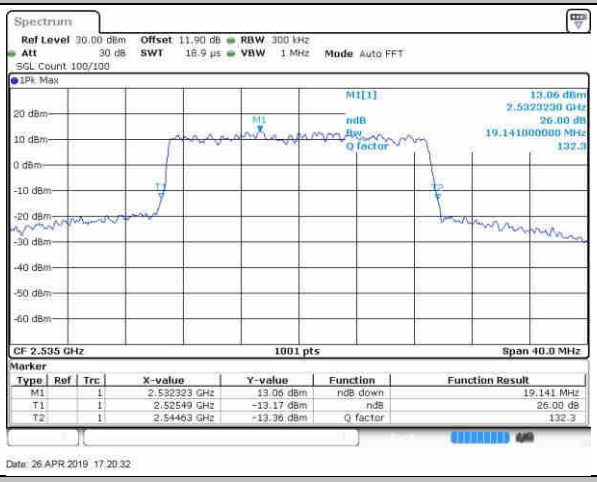


## LTE Band 7

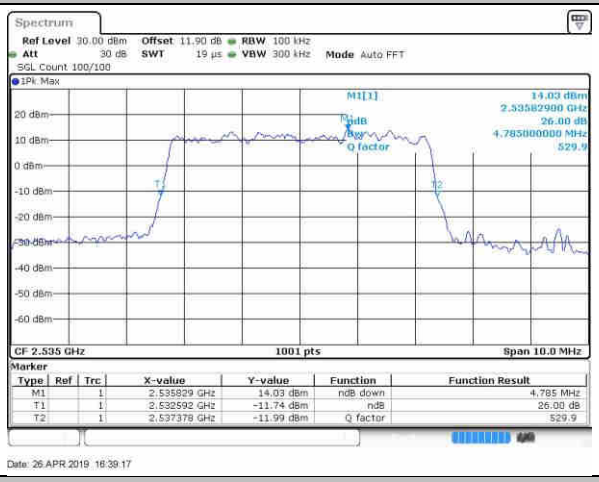
### Middle Channel / 20MHz / QPSK



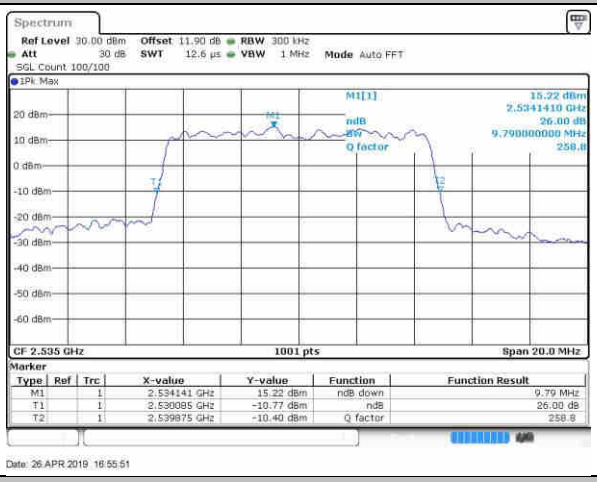

### Middle Channel / 20MHz / 16QAM



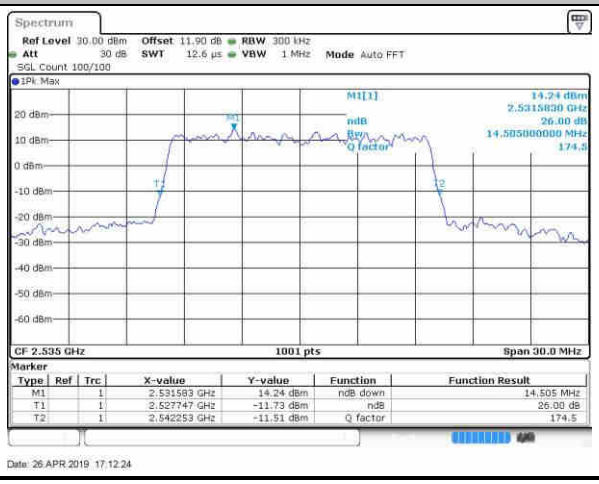

### Middle Channel / 5MHz / 64QAM



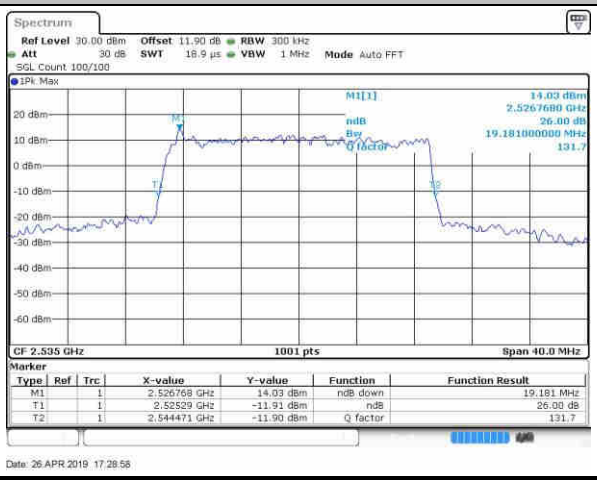

### Middle Channel / 10MHz / 64QAM




### Middle Channel / 15MHz / 64QAM




### Middle Channel / 20MHz / 64QAM

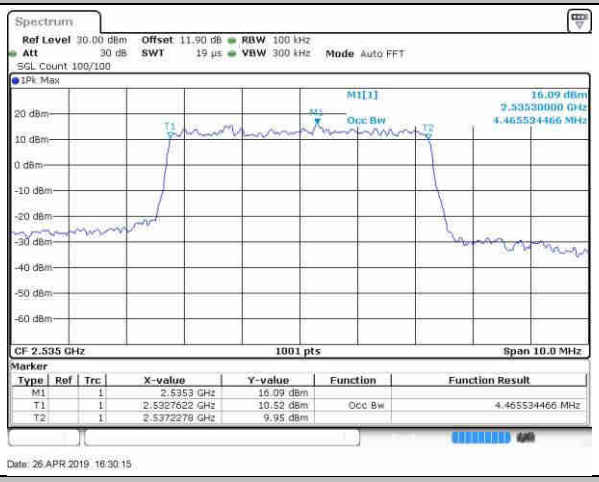


# Occupied Bandwidth

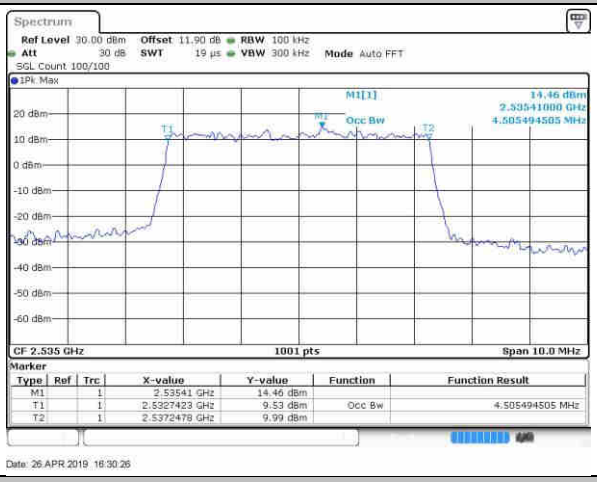
| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.49 | 4.46 | 9.01 | 9.05 | 13.52 | 13.40 | 17.86 | 17.86 |
| Middle CH | - | - | - | - | 4.47 | 4.51 | 9.05 | 9.05 | 13.37 | 13.43 | 17.78 | 17.90 |
| Highest CH | - | - | - | - | 4.49 | 4.50 | 9.03 | 9.01 | 13.46 | 13.43 | 17.82 | 17.90 |
| Mode | LTE Band 7 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.49 | - | 9.01 | - | 13.40 | - | 17.90 | - |
| Middle CH | - | - | - | - | 4.48 | - | 9.05 | - | 13.46 | - | 17.90 | - |
| Highest CH | - | - | - | - | 4.48 | - | 9.07 | - | 13.43 | - | 17.86 | - |

## LTE Band 7

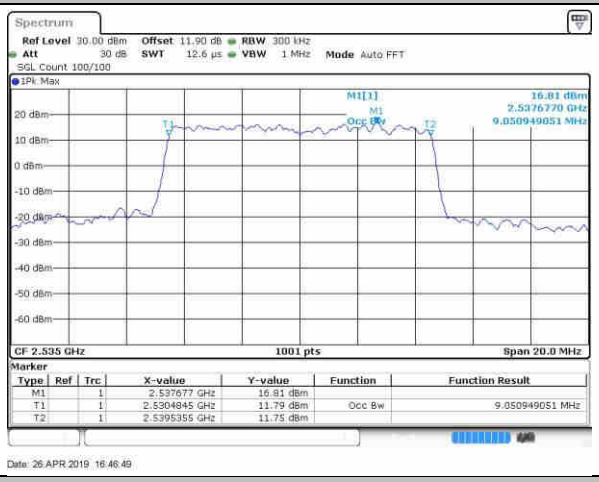
### Middle Channel / 5MHz / QPSK



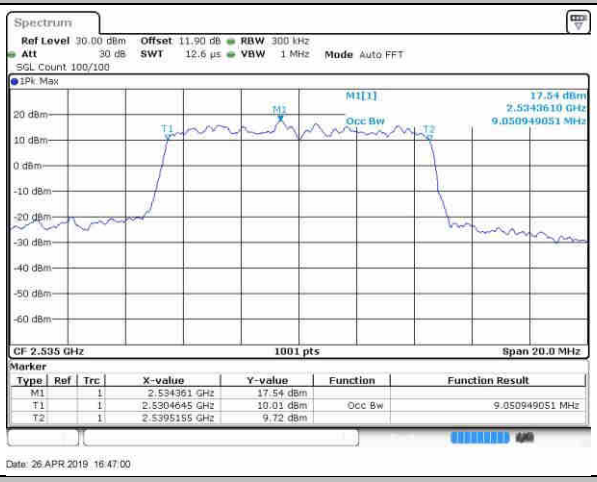

### Middle Channel / 5MHz / 16QAM



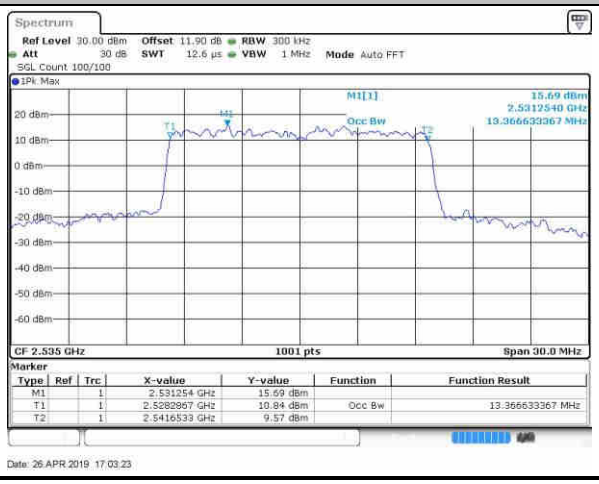

### Middle Channel / 10MHz / QPSK



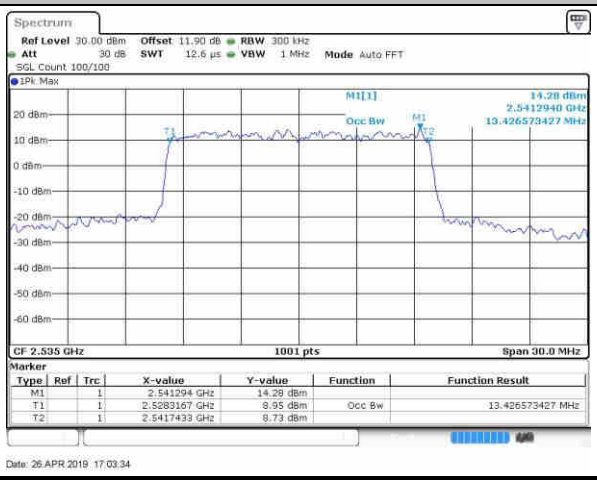

### Middle Channel / 10MHz / 16QAM




### Middle Channel / 15MHz / QPSK

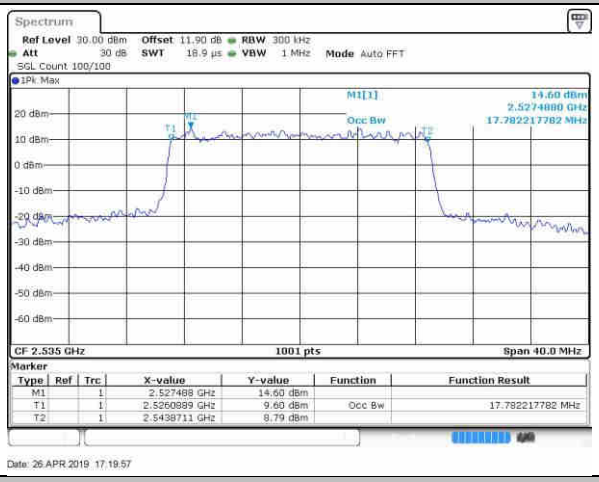



### Middle Channel / 15MHz / 16QAM

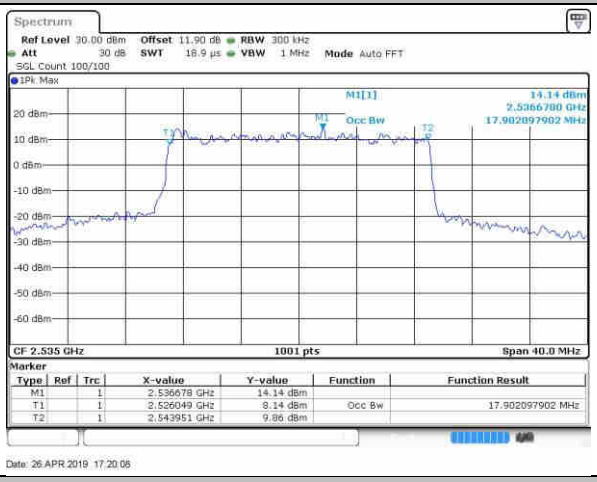


## LTE Band 7

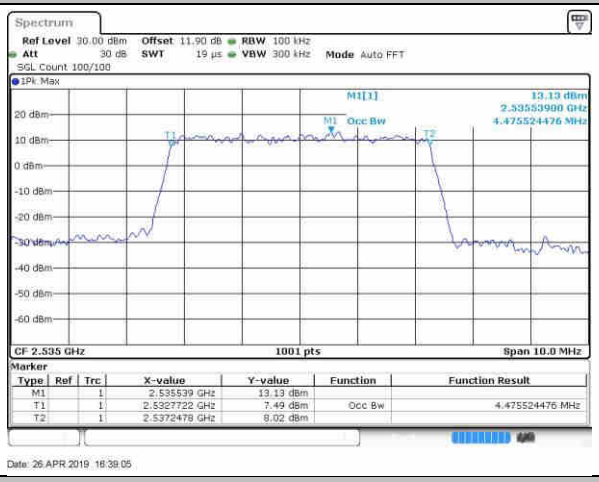
### Middle Channel / 20MHz / QPSK



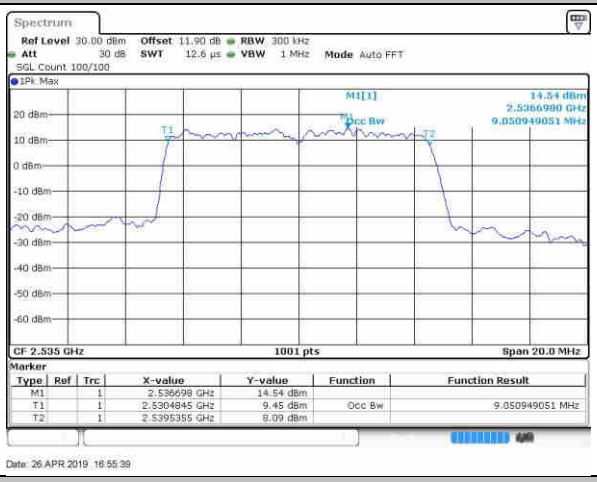

### Middle Channel / 20MHz / 16QAM



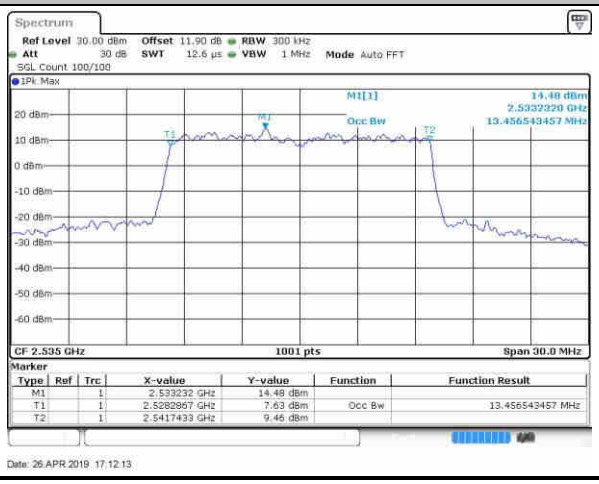

### Middle Channel / 5MHz / 64QAM



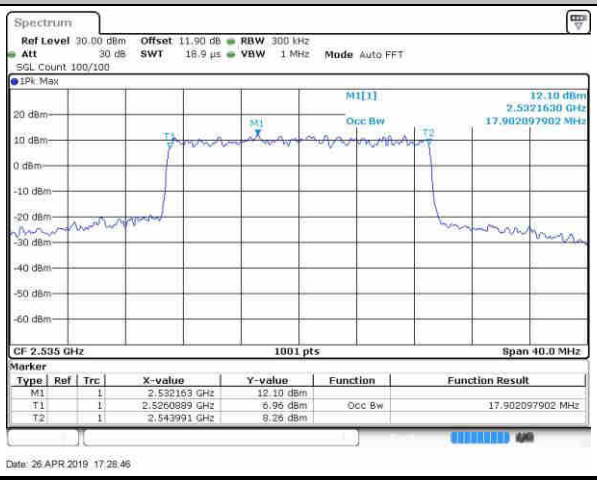

### Middle Channel / 10MHz / 64QAM




### Middle Channel / 15MHz / 64QAM



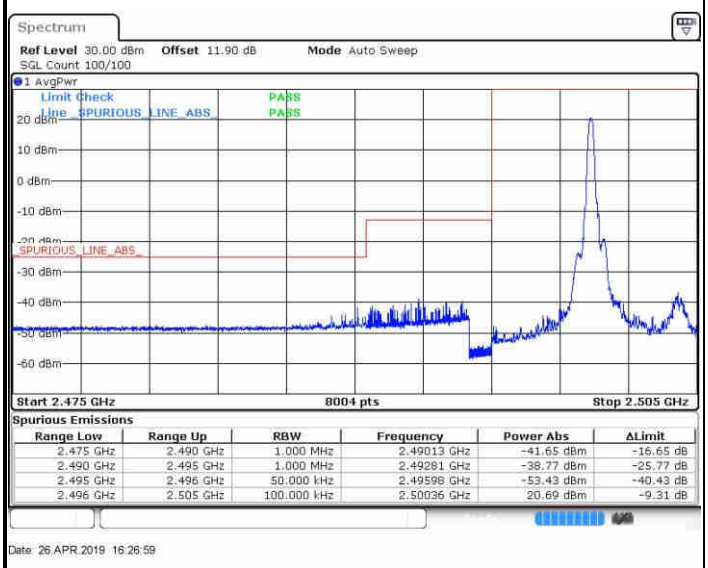

### Middle Channel / 20MHz / 64QAM



# Conducted Band Edge

## LTE Band 7 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

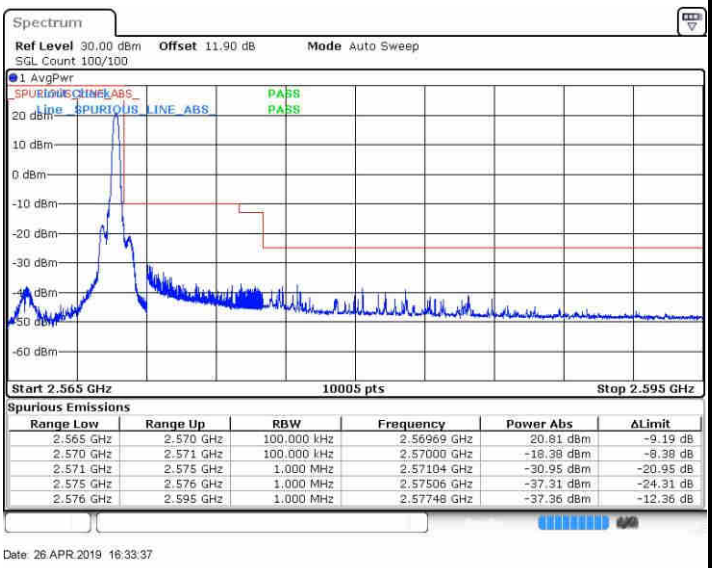



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49013 GHz | -41.65 dBm | -16.65 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49281 GHz | -38.77 dBm | -25.77 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49598 GHz | -53.43 dBm | -40.43 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50036 GHz | 20.69 dBm | -9.31 dB |

Date: 26.APR.2019 16:26:59

### Highest Band Edge / 1 RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56969 GHz | 20.81 dBm | -9.19 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57000 GHz | -18.38 dBm | -8.38 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57104 GHz | -30.95 dBm | -20.95 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57506 GHz | -37.31 dBm | -24.31 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57748 GHz | -37.36 dBm | -12.36 dB |

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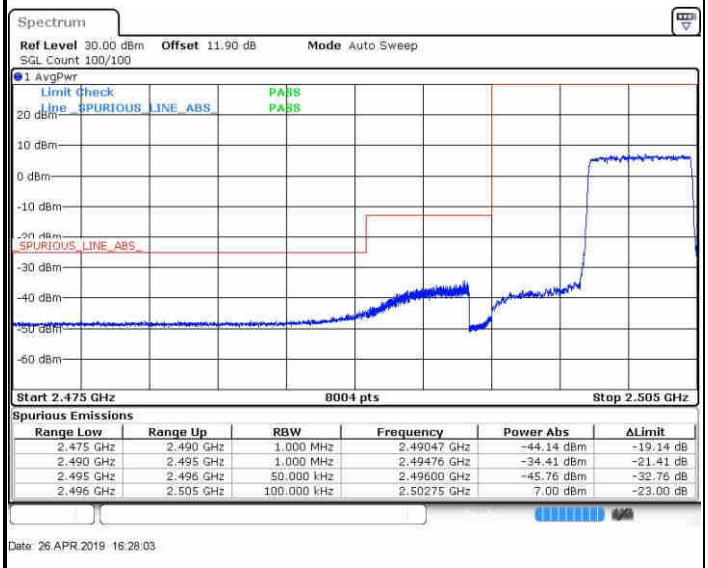
### Lowest Band Edge / Full RB

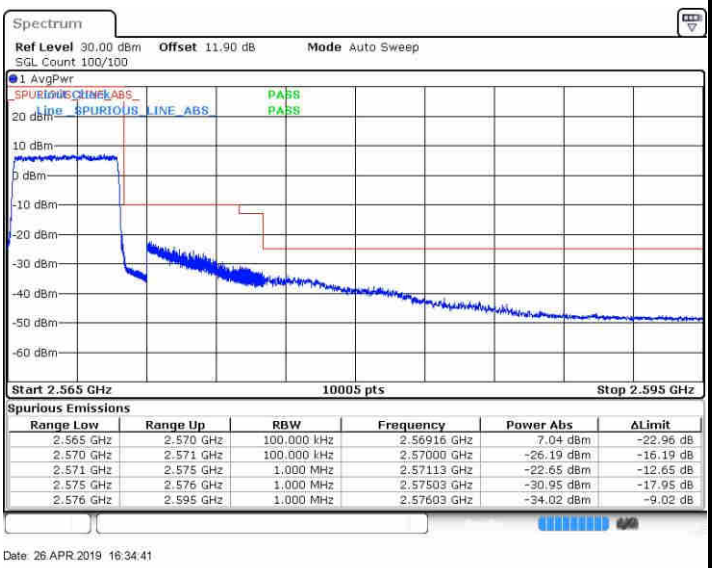



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49047 GHz | -44.14 dBm | -19.14 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49476 GHz | -34.41 dBm | -21.41 dB |
| 2.495 GHz | 2.496 GHz | 50.000 kHz | 2.49600 GHz | -45.76 dBm | -32.76 dB |
| 2.496 GHz | 2.505 GHz | 100.000 kHz | 2.50275 GHz | 7.00 dBm | -23.00 dB |

Date: 26.APR.2019 16:28:03

### Highest Band Edge / Full RB



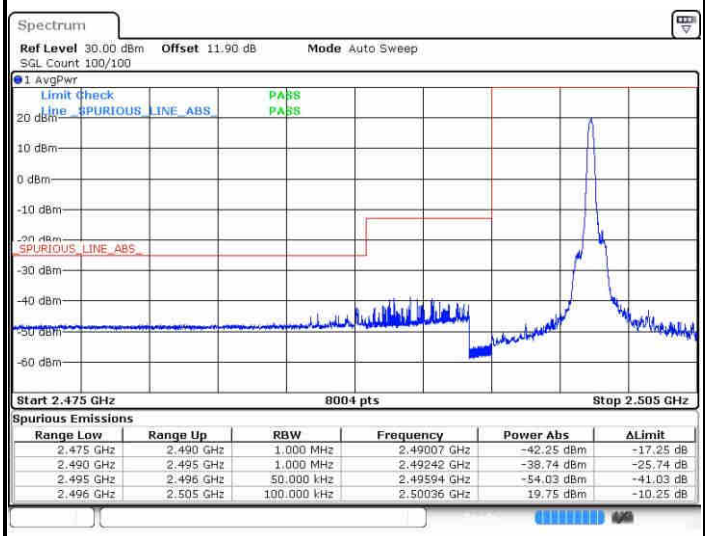

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.565 GHz | 2.570 GHz | 100.000 kHz | 2.56916 GHz | 7.04 dBm | -22.96 dB |
| 2.570 GHz | 2.571 GHz | 100.000 kHz | 2.57000 GHz | -26.19 dBm | -16.19 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57113 GHz | -22.65 dBm | -12.65 dB |
| 2.575 GHz | 2.576 GHz | 1.000 MHz | 2.57503 GHz | -30.95 dBm | -17.95 dB |
| 2.576 GHz | 2.595 GHz | 1.000 MHz | 2.57603 GHz | -34.02 dBm | -9.02 dB |

Date: 26.APR.2019 16:34:41

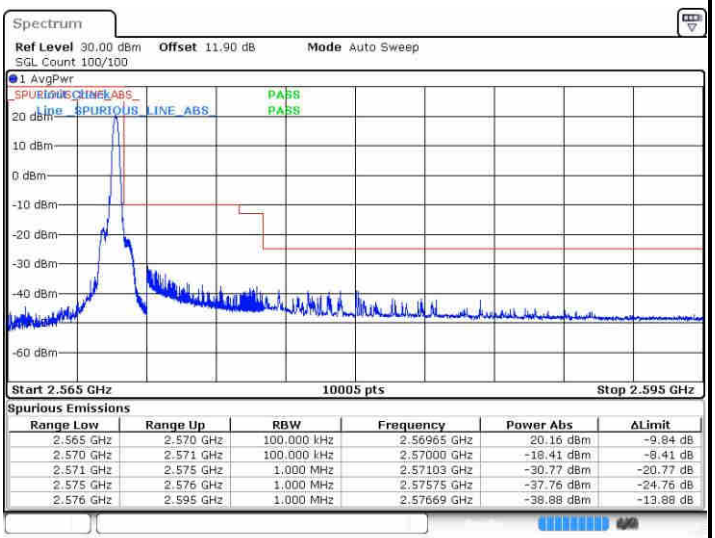
## LTE Band 7 / 5MHz / 16QAM

### Lowest Band Edge / 1 RB



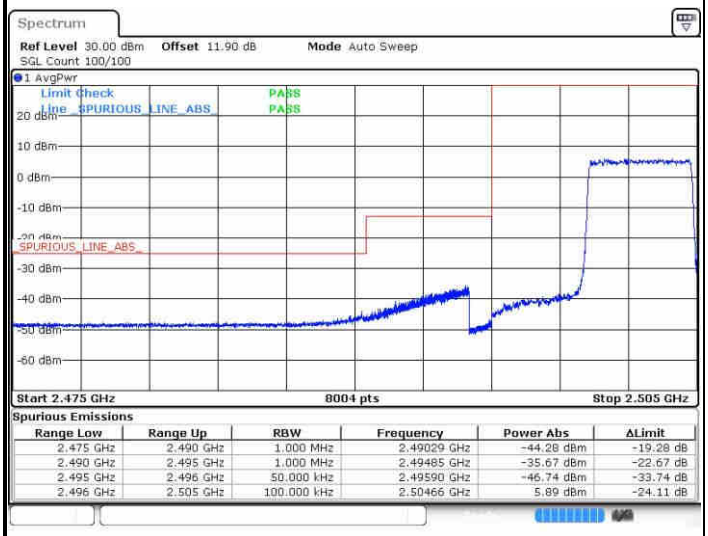

Date: 26.APR.2019 16:27:31

### Highest Band Edge / 1 RB



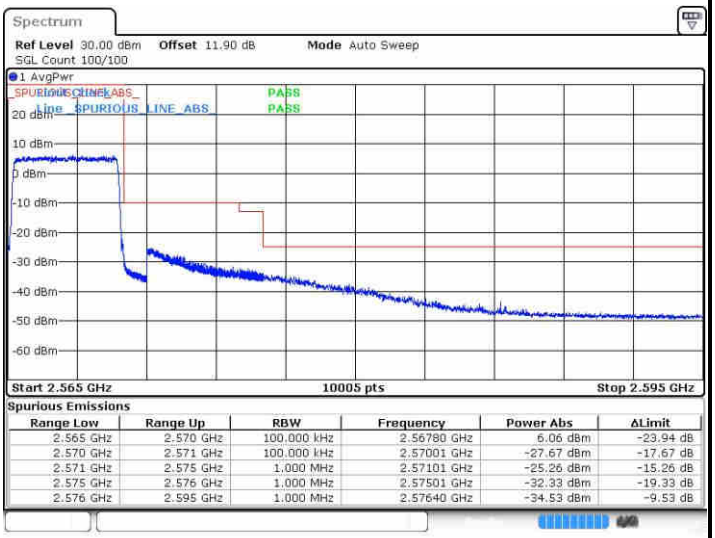

Date: 26.APR.2019 16:34:09

### Lowest Band Edge / Full RB




Date: 26.APR.2019 16:28:34

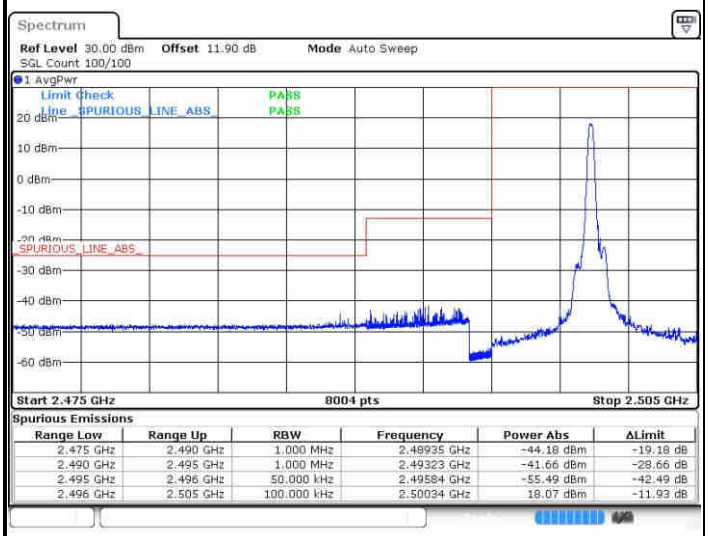
### Highest Band Edge / Full RB



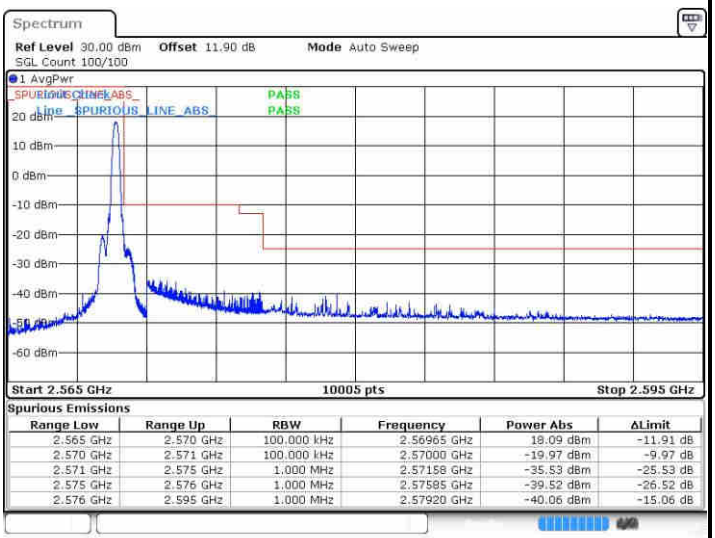

Date: 26.APR.2019 16:35:12

## LTE Band 7 / 5MHz / 64QAM

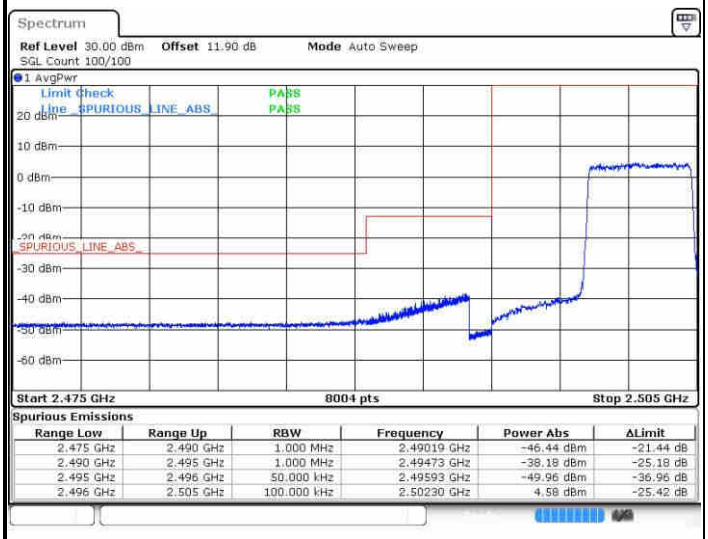
### Lowest Band Edge / 1RB



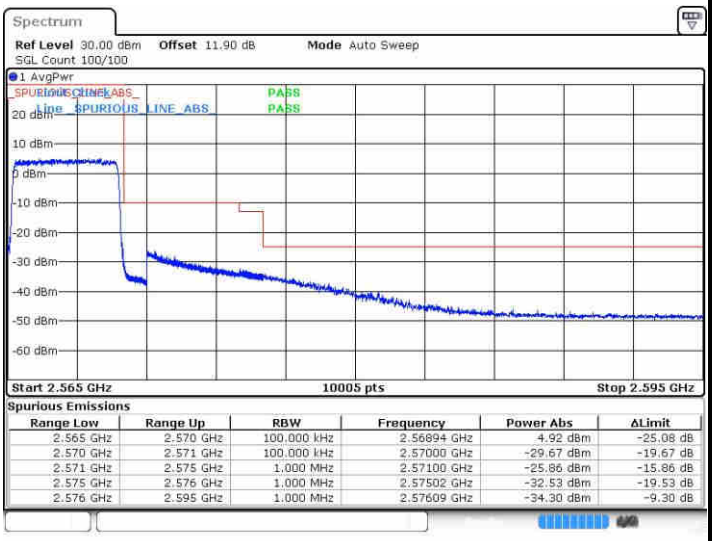

### Highest Band Edge / 1 RB




### Lowest Band Edge / Full RB

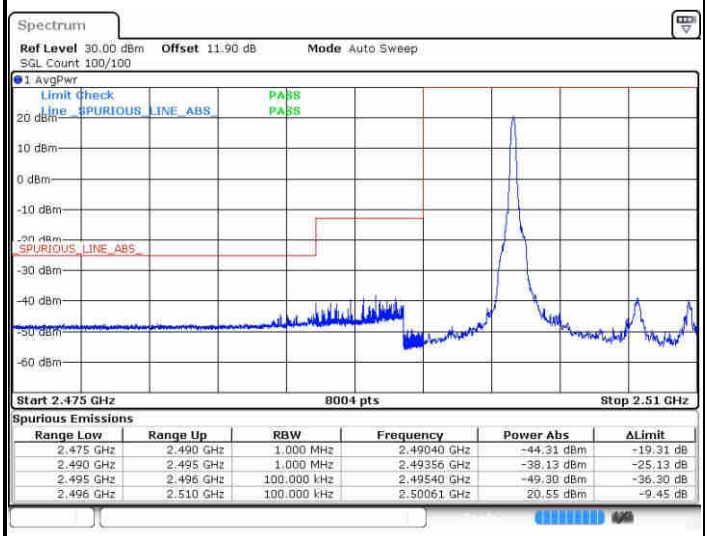



### Highest Band Edge / Full RB



## LTE Band 7 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

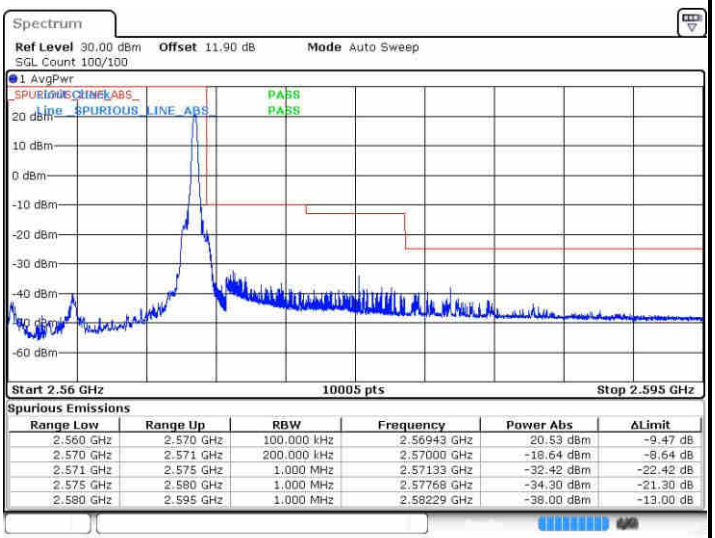



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49040 GHz | -44.31 dBm | -19.31 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49356 GHz | -38.13 dBm | -25.13 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49540 GHz | -49.30 dBm | -36.30 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50061 GHz | 20.55 dBm | -9.45 dB |

Date: 26.APR.2019 16:43:33

### Highest Band Edge / 1 RB

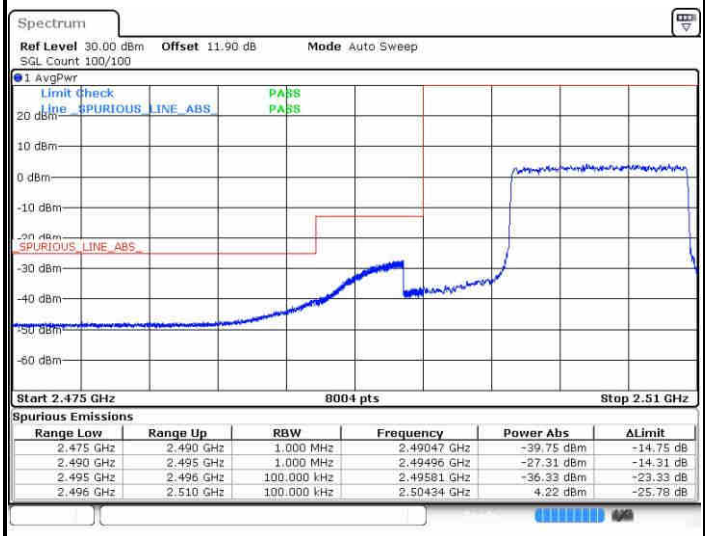



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56943 GHz | 20.53 dBm | -9.47 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57000 GHz | -18.64 dBm | -8.64 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57133 GHz | -32.42 dBm | -22.42 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57768 GHz | -34.30 dBm | -21.30 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58229 GHz | -38.00 dBm | -13.00 dB |

Date: 26.APR.2019 16:50:11

### Lowest Band Edge / Full RB

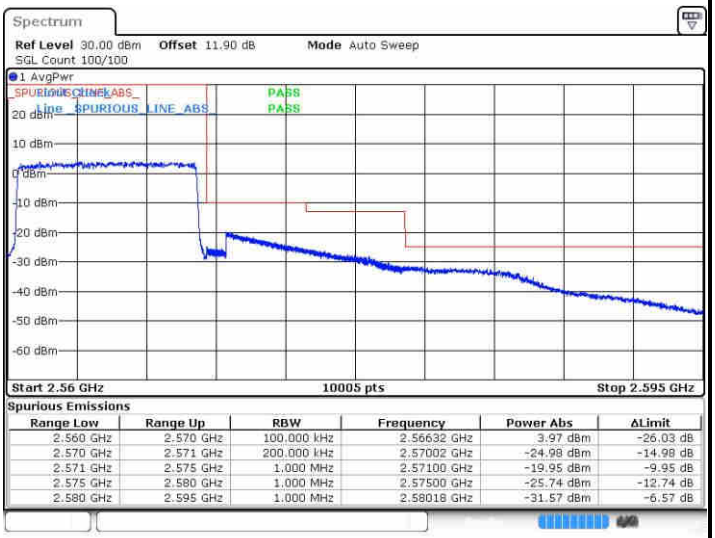



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49047 GHz | -39.75 dBm | -14.75 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49496 GHz | -27.31 dBm | -14.31 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49581 GHz | -36.33 dBm | -23.33 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50434 GHz | 4.22 dBm | -25.78 dB |

Date: 26.APR.2019 16:44:36

### Highest Band Edge / Full RB



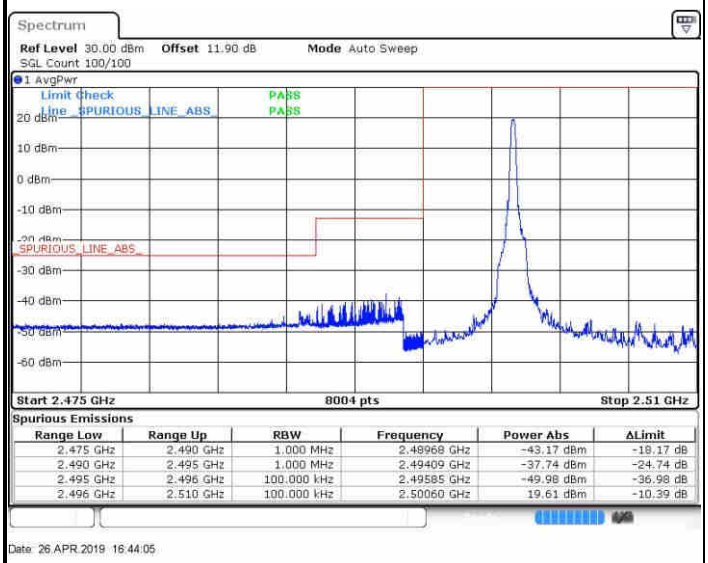

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56632 GHz | 3.97 dBm | -26.03 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57002 GHz | -24.98 dBm | -14.98 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57100 GHz | -19.95 dBm | -9.95 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57500 GHz | -25.74 dBm | -12.74 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58018 GHz | -31.57 dBm | -6.57 dB |

Date: 26.APR.2019 16:51:15

## LTE Band 7 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

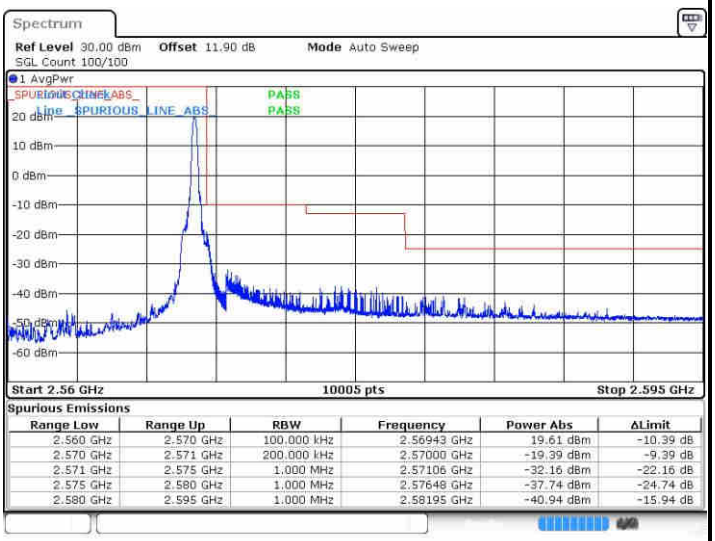



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48968 GHz | -43.17 dBm | -18.17 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49409 GHz | -37.74 dBm | -24.74 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49585 GHz | -49.98 dBm | -36.98 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50060 GHz | 19.61 dBm | -10.39 dB |

Date: 26.APR.2019 16:44:05

### Highest Band Edge / 1 RB

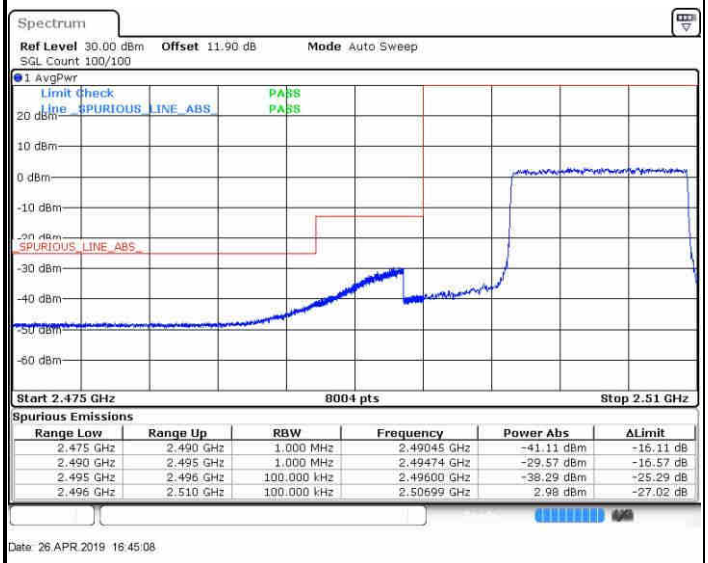



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56943 GHz | 19.61 dBm | -10.39 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57000 GHz | -19.39 dBm | -9.39 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57106 GHz | -32.16 dBm | -22.16 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57648 GHz | -37.74 dBm | -24.74 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58195 GHz | -40.94 dBm | -15.94 dB |

Date: 26.APR.2019 16:50:43

### Lowest Band Edge / Full RB

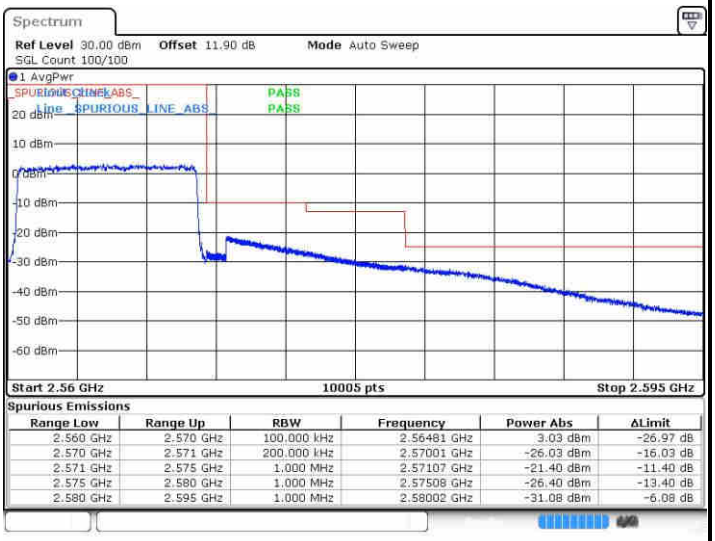



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49045 GHz | -41.11 dBm | -16.11 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49474 GHz | -29.57 dBm | -16.57 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49600 GHz | -38.29 dBm | -25.29 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50699 GHz | 2.98 dBm | -27.02 dB |

Date: 26.APR.2019 16:45:08

### Highest Band Edge / Full RB



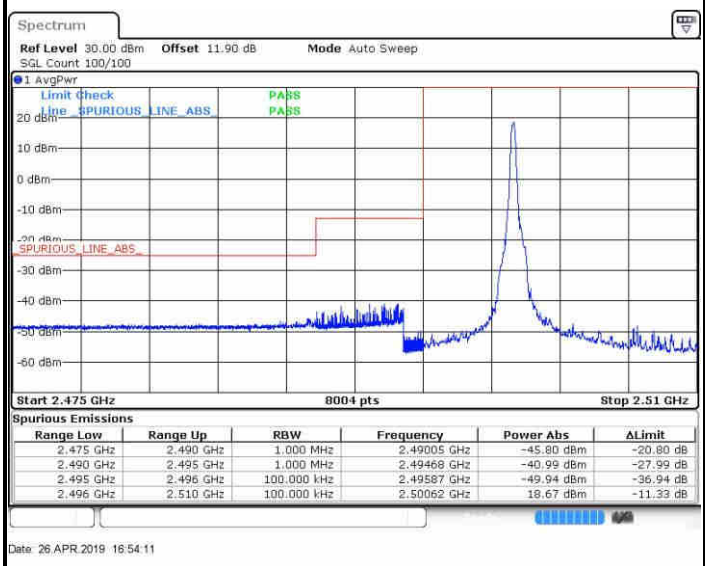

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56481 GHz | 3.03 dBm | -26.97 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57001 GHz | -26.03 dBm | -16.03 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57107 GHz | -21.40 dBm | -11.40 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57508 GHz | -26.40 dBm | -13.40 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58002 GHz | -31.08 dBm | -6.08 dB |

Date: 26.APR.2019 16:51:46

## LTE Band 7 / 10MHz / 64QAM

### Lowest Band Edge / 1 RB

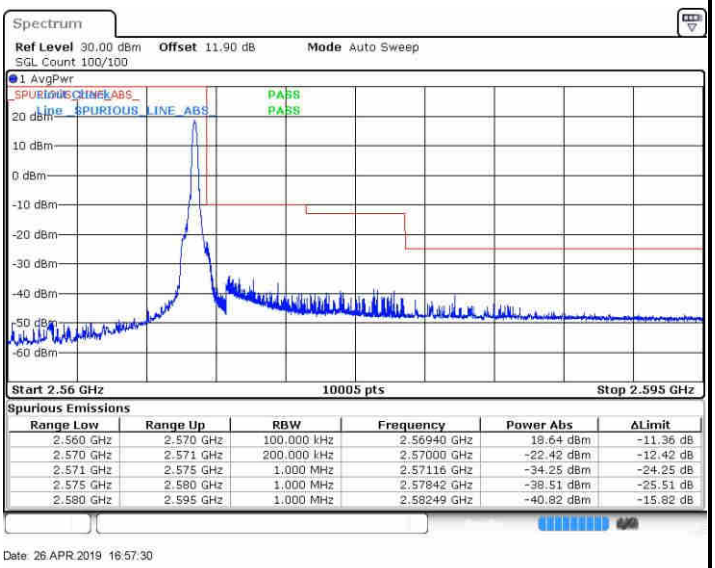



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49005 GHz | -45.80 dBm | -20.80 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49468 GHz | -40.99 dBm | -27.99 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49587 GHz | -49.94 dBm | -36.94 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50062 GHz | 18.67 dBm | -11.33 dB |

Date: 26.APR.2019 16:54:11

### Highest Band Edge / 1 RB

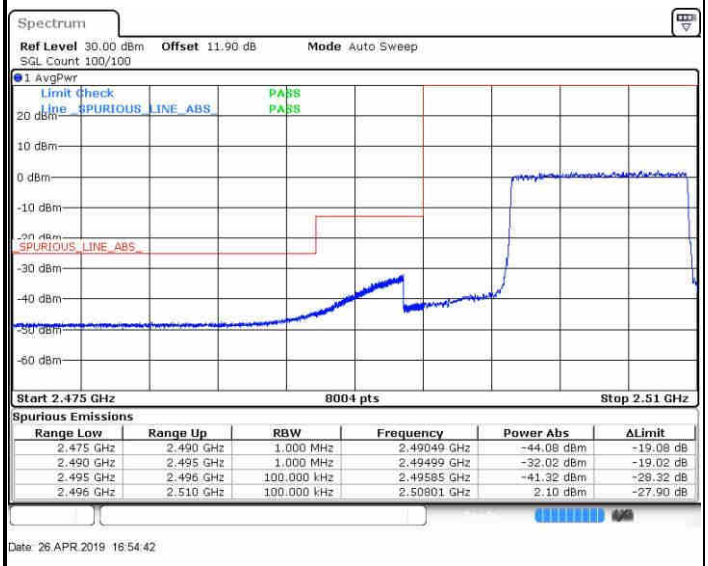



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56940 GHz | 18.64 dBm | -11.36 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57000 GHz | -22.42 dBm | -12.42 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57116 GHz | -34.25 dBm | -24.25 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57842 GHz | -38.51 dBm | -25.51 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58249 GHz | -40.82 dBm | -15.82 dB |

Date: 26.APR.2019 16:57:30

### Lowest Band Edge / Full RB

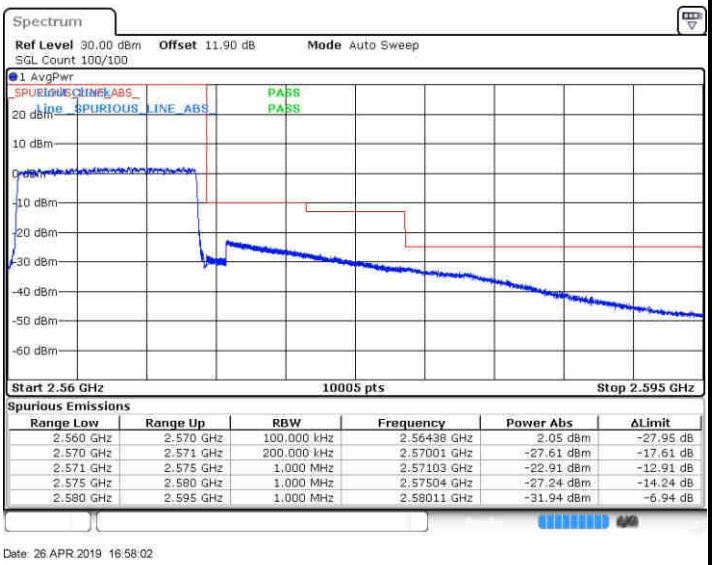



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49049 GHz | -44.08 dBm | -19.08 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49499 GHz | -32.02 dBm | -19.02 dB |
| 2.495 GHz | 2.496 GHz | 100.000 kHz | 2.49585 GHz | -41.32 dBm | -28.32 dB |
| 2.496 GHz | 2.510 GHz | 100.000 kHz | 2.50801 GHz | 2.10 dBm | -27.90 dB |

Date: 26.APR.2019 16:54:42

### Highest Band Edge / Full RB



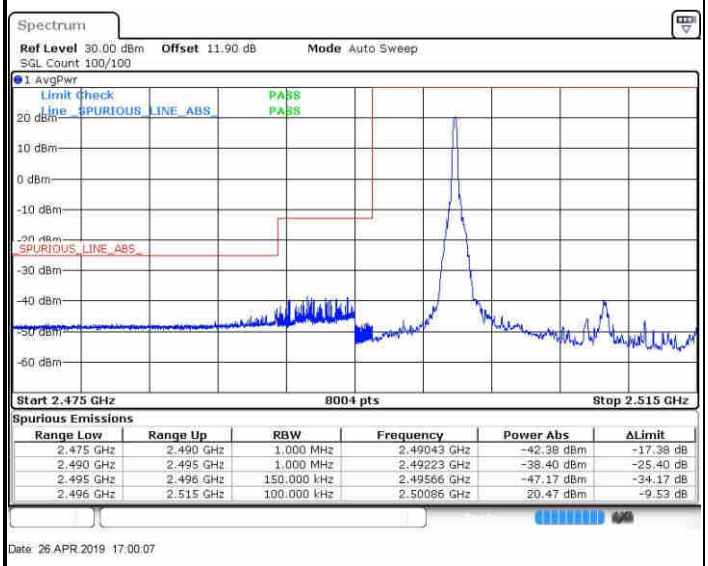

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.560 GHz | 2.570 GHz | 100.000 kHz | 2.56438 GHz | 2.05 dBm | -27.95 dB |
| 2.570 GHz | 2.571 GHz | 200.000 kHz | 2.57001 GHz | -27.61 dBm | -17.61 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57103 GHz | -22.91 dBm | -12.91 dB |
| 2.575 GHz | 2.580 GHz | 1.000 MHz | 2.57504 GHz | -27.24 dBm | -14.24 dB |
| 2.580 GHz | 2.595 GHz | 1.000 MHz | 2.58011 GHz | -31.94 dBm | -6.94 dB |

Date: 26.APR.2019 16:58:02

## LTE Band 7 / 15MHz / QPSK

### Lowest Band Edge / 1 RB

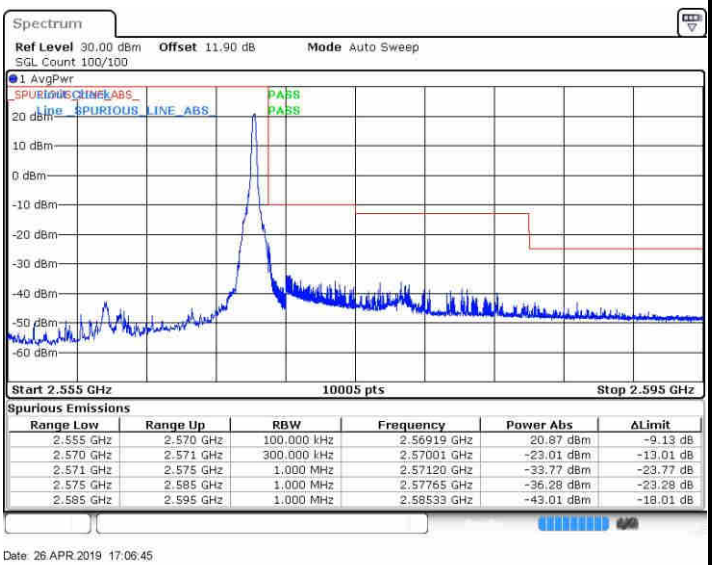



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49043 GHz | -42.38 dBm | -17.38 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49223 GHz | -38.40 dBm | -25.40 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49566 GHz | -47.17 dBm | -34.17 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50086 GHz | 20.47 dBm | -9.53 dB |

Date: 26.APR.2019 17:00:07

### Highest Band Edge / 1 RB

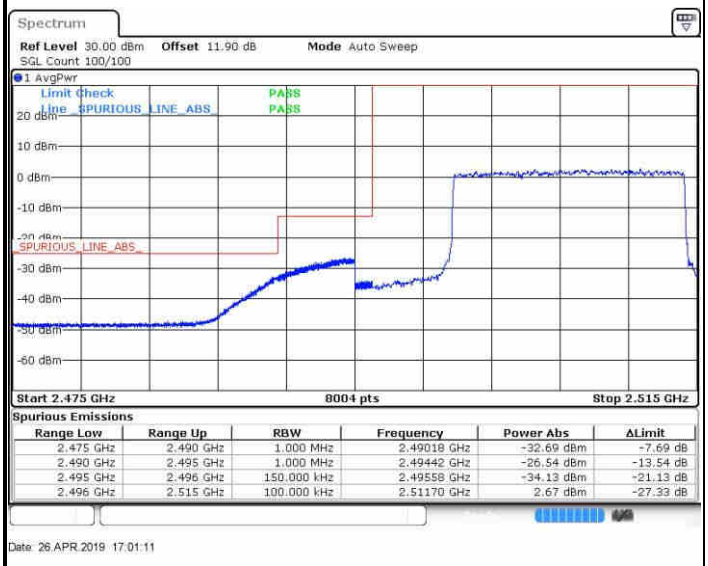



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56919 GHz | 20.87 dBm | -9.13 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57001 GHz | -23.01 dBm | -13.01 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57120 GHz | -33.77 dBm | -23.77 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57765 GHz | -36.28 dBm | -23.28 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58533 GHz | -43.01 dBm | -18.01 dB |

Date: 26.APR.2019 17:06:45

### Lowest Band Edge / Full RB

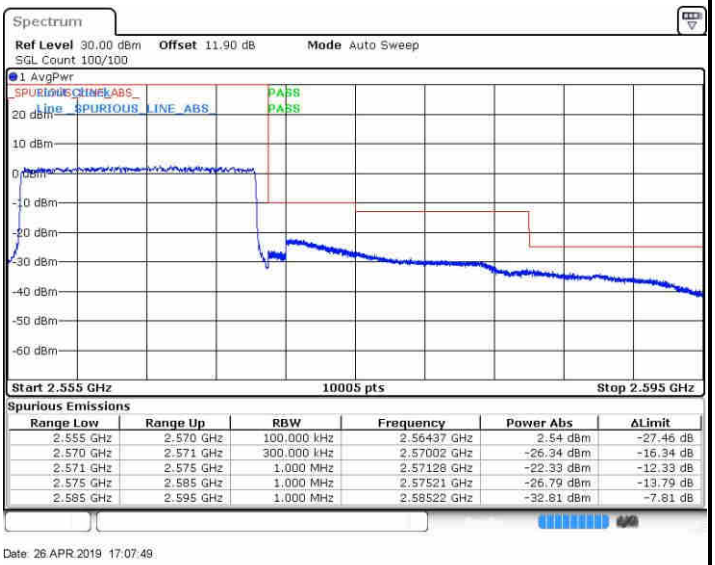



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49018 GHz | -32.69 dBm | -7.69 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49442 GHz | -26.54 dBm | -13.54 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49558 GHz | -34.13 dBm | -21.13 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.51170 GHz | 2.67 dBm | -27.33 dB |

Date: 26.APR.2019 17:01:11

### Highest Band Edge / Full RB



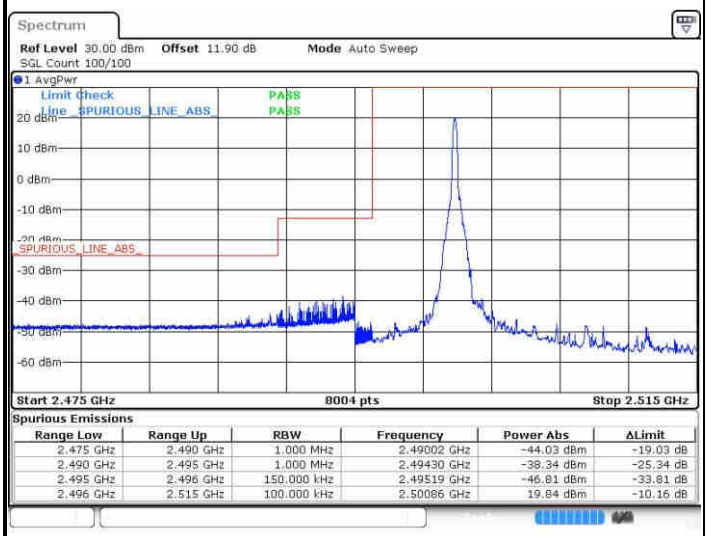

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56437 GHz | 2.54 dBm | -27.46 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57002 GHz | -26.34 dBm | -16.34 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57128 GHz | -22.33 dBm | -12.33 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57521 GHz | -26.79 dBm | -13.79 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58522 GHz | -32.81 dBm | -7.81 dB |

Date: 26.APR.2019 17:07:49

## LTE Band 7 / 15MHz / 16QAM

### Lowest Band Edge / 1 RB

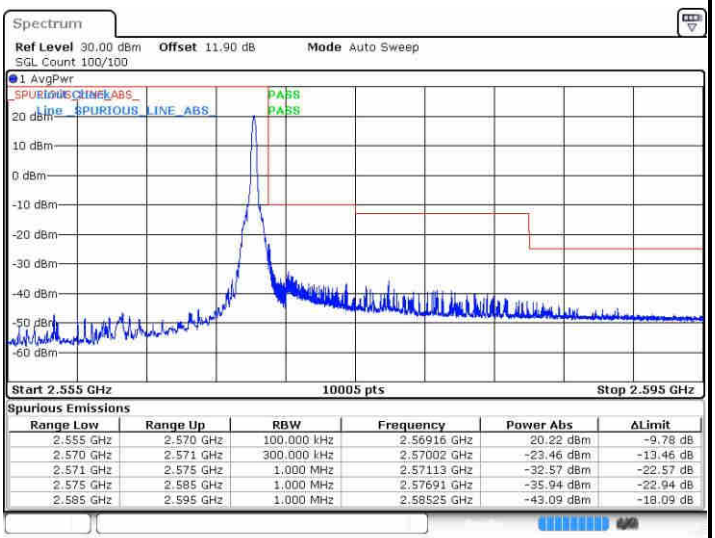



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49002 GHz | -44.03 dBm | -19.03 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49430 GHz | -38.34 dBm | -25.34 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49519 GHz | -46.81 dBm | -33.81 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50086 GHz | 19.84 dBm | -10.16 dB |

Date: 26.APR.2019 17:00:39

### Highest Band Edge / 1 RB

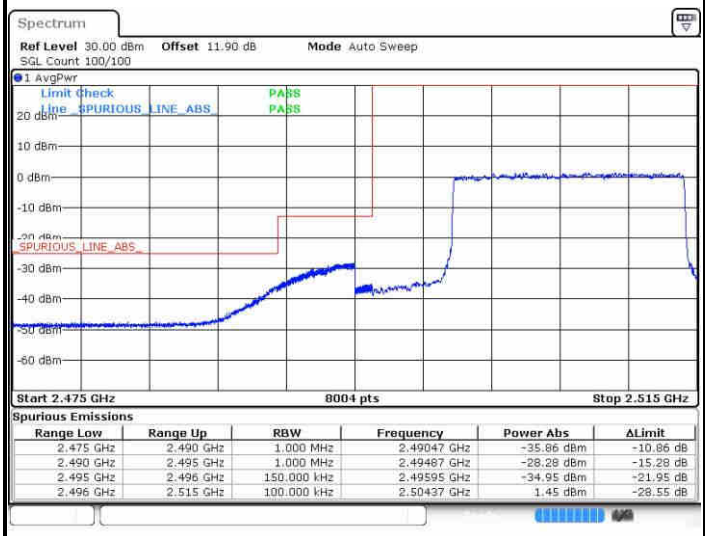



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56916 GHz | 20.22 dBm | -9.78 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57002 GHz | -23.46 dBm | -13.46 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57113 GHz | -32.57 dBm | -22.57 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57691 GHz | -35.94 dBm | -22.94 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58525 GHz | -43.09 dBm | -18.09 dB |

Date: 26.APR.2019 17:07:17

### Lowest Band Edge / Full RB

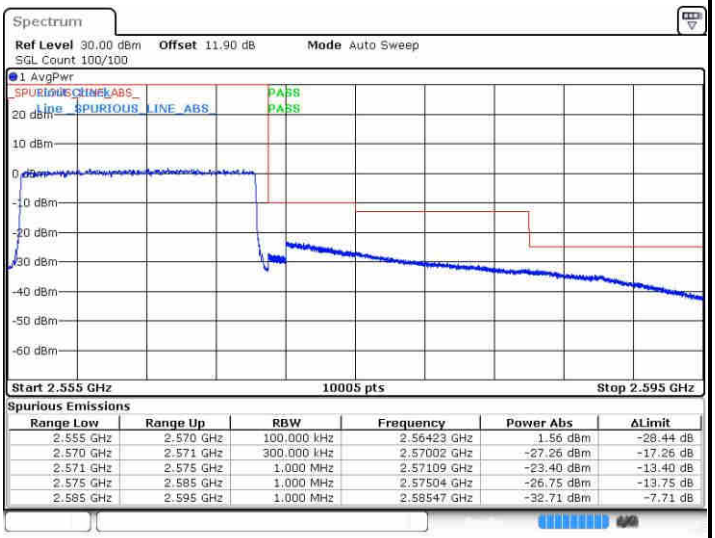



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49047 GHz | -35.86 dBm | -10.86 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49487 GHz | -28.28 dBm | -15.28 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49595 GHz | -34.95 dBm | -21.95 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50437 GHz | 1.45 dBm | -28.55 dB |

Date: 26.APR.2019 17:01:42

### Highest Band Edge / Full RB



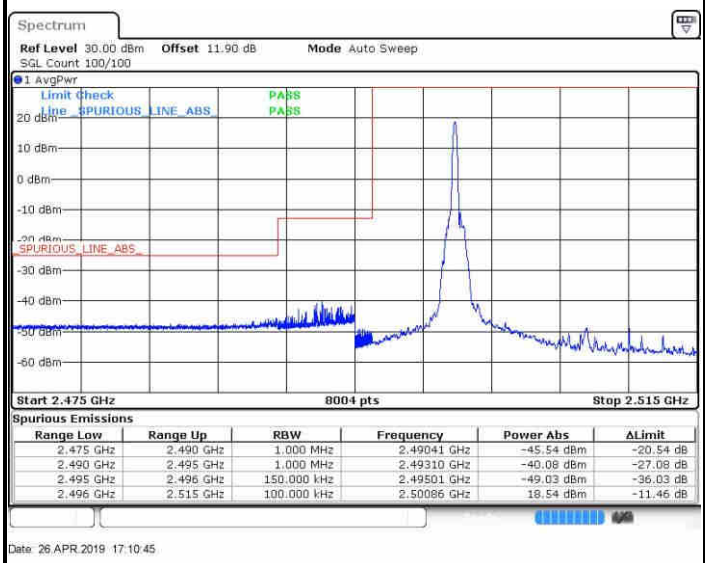

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56423 GHz | 1.56 dBm | -28.44 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57002 GHz | -27.26 dBm | -17.26 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57109 GHz | -23.40 dBm | -13.40 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57504 GHz | -26.75 dBm | -13.75 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58547 GHz | -32.71 dBm | -7.71 dB |

Date: 26.APR.2019 17:08:21

## LTE Band 7 / 15MHz / 64QAM

### Lowest Band Edge / 1 RB

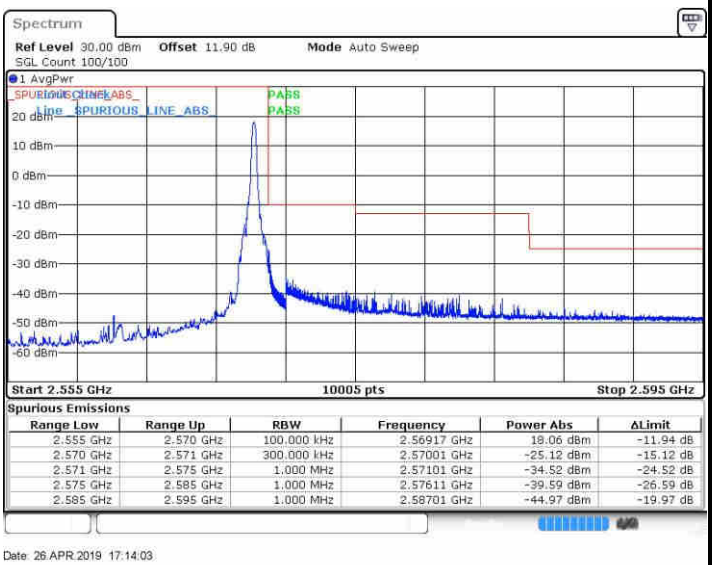



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49041 GHz | -45.54 dBm | -20.54 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49310 GHz | -40.08 dBm | -27.08 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49501 GHz | -49.03 dBm | -36.03 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.50086 GHz | 18.54 dBm | -11.46 dB |

Date: 26.APR.2019 17:10:45

### Highest Band Edge / 1 RB

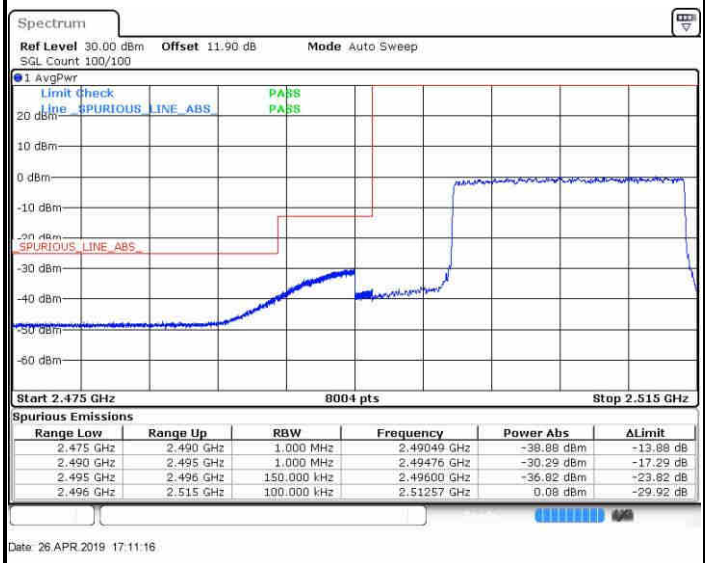



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56917 GHz | 18.06 dBm | -11.94 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57001 GHz | -25.12 dBm | -15.12 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57101 GHz | -34.52 dBm | -24.52 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57611 GHz | -39.59 dBm | -26.59 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58701 GHz | -44.97 dBm | -19.97 dB |

Date: 26.APR.2019 17:14:03

### Lowest Band Edge / Full RB

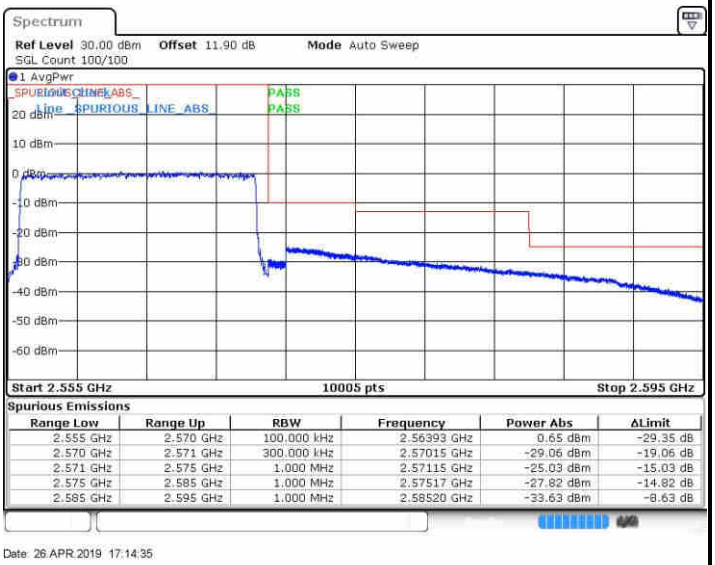



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49049 GHz | -38.88 dBm | -13.88 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49476 GHz | -30.29 dBm | -17.29 dB |
| 2.495 GHz | 2.496 GHz | 150.000 kHz | 2.49600 GHz | -36.82 dBm | -23.82 dB |
| 2.496 GHz | 2.515 GHz | 100.000 kHz | 2.51257 GHz | 0.08 dBm | -29.92 dB |

Date: 26.APR.2019 17:11:16

### Highest Band Edge / Full RB



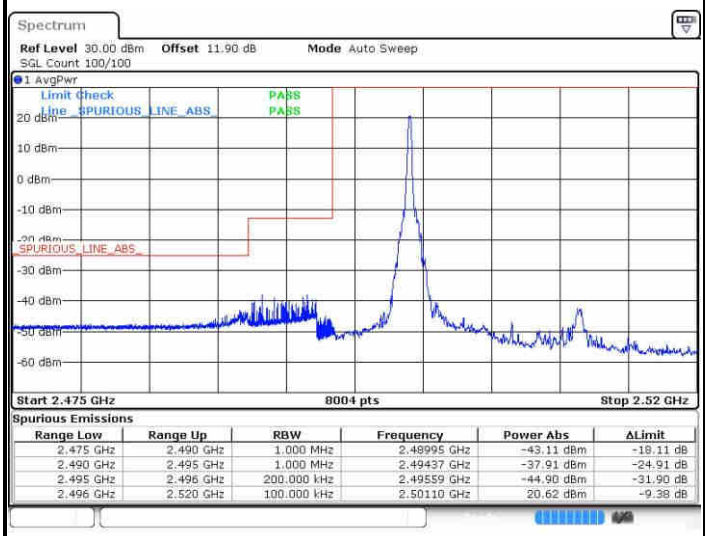

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.555 GHz | 2.570 GHz | 100.000 kHz | 2.56393 GHz | 0.65 dBm | -29.35 dB |
| 2.570 GHz | 2.571 GHz | 300.000 kHz | 2.57015 GHz | -29.06 dBm | -19.06 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57115 GHz | -25.03 dBm | -15.03 dB |
| 2.575 GHz | 2.585 GHz | 1.000 MHz | 2.57517 GHz | -27.82 dBm | -14.82 dB |
| 2.585 GHz | 2.595 GHz | 1.000 MHz | 2.58520 GHz | -33.63 dBm | -8.63 dB |

Date: 26.APR.2019 17:14:35

## LTE Band 7 / 20MHz / QPSK

### Lowest Band Edge / 1 RB

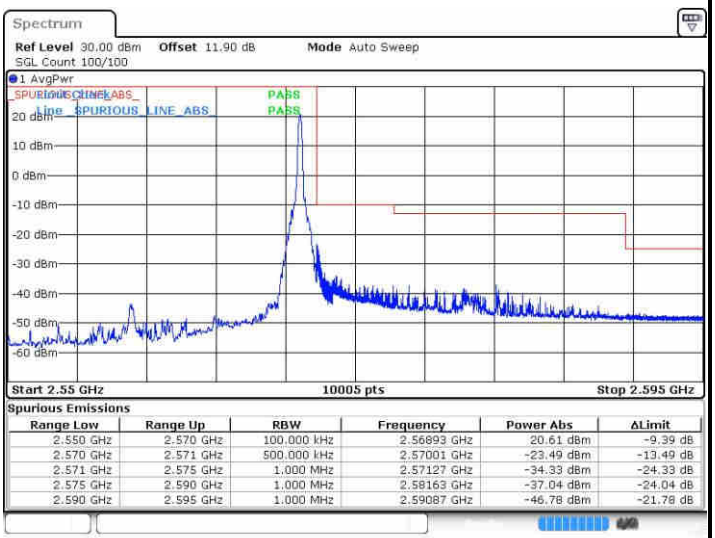



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48995 GHz | -43.11 dBm | -18.11 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49437 GHz | -37.91 dBm | -24.91 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49559 GHz | -44.90 dBm | -31.90 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.50110 GHz | 20.62 dBm | -9.38 dB |

Date: 26.APR.2019 17:16:40

### Highest Band Edge / 1 RB

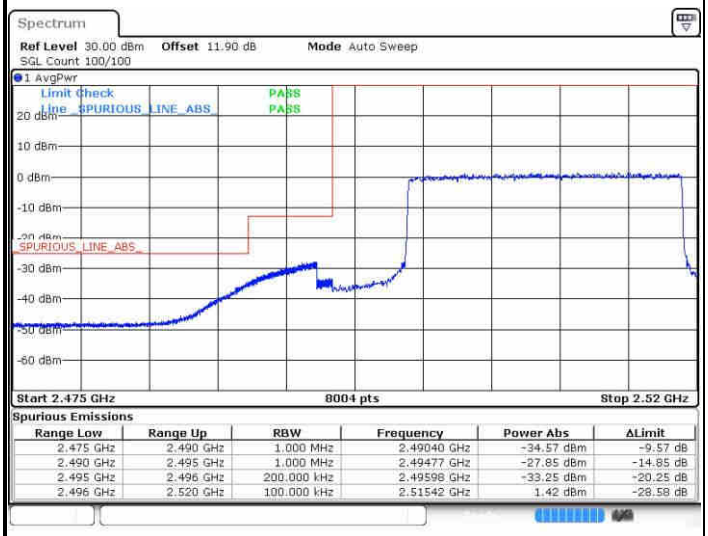



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56893 GHz | 20.61 dBm | -9.39 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -23.49 dBm | -13.49 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57127 GHz | -34.33 dBm | -24.33 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.58163 GHz | -37.04 dBm | -24.04 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59087 GHz | -46.78 dBm | -21.78 dB |

Date: 26.APR.2019 17:23:19

### Lowest Band Edge / Full RB

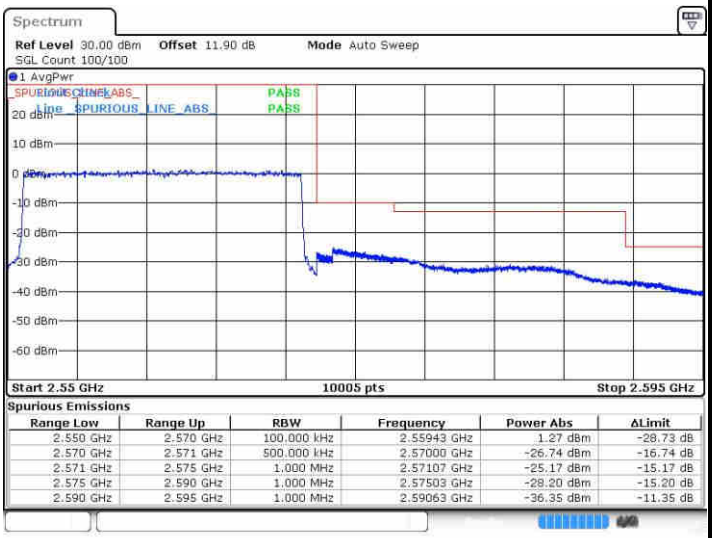



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49040 GHz | -34.57 dBm | -9.57 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49477 GHz | -27.85 dBm | -14.85 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49598 GHz | -33.25 dBm | -20.25 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.51542 GHz | 1.42 dBm | -28.58 dB |

Date: 26.APR.2019 17:17:44

### Highest Band Edge / Full RB



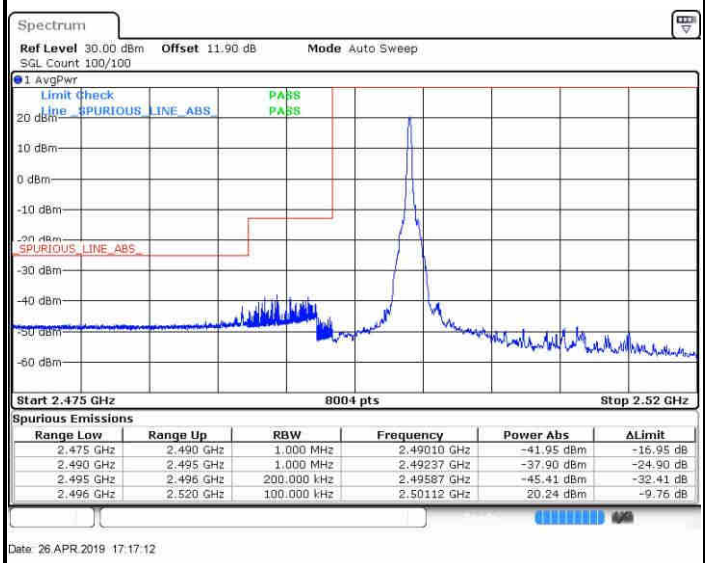

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.55943 GHz | 1.27 dBm | -28.73 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57000 GHz | -26.74 dBm | -16.74 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57107 GHz | -25.17 dBm | -15.17 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57503 GHz | -28.20 dBm | -15.20 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59063 GHz | -36.35 dBm | -11.35 dB |

Date: 26.APR.2019 17:24:54

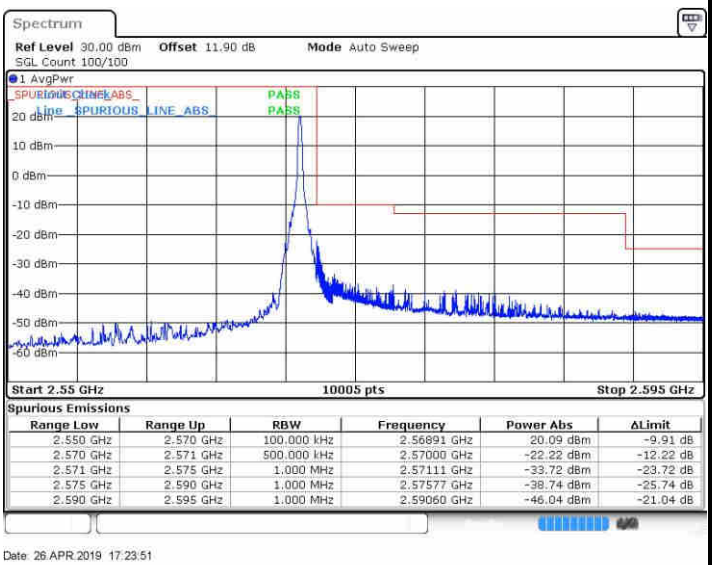
## LTE Band 7 / 20MHz / 16QAM

### Lowest Band Edge /1 RB



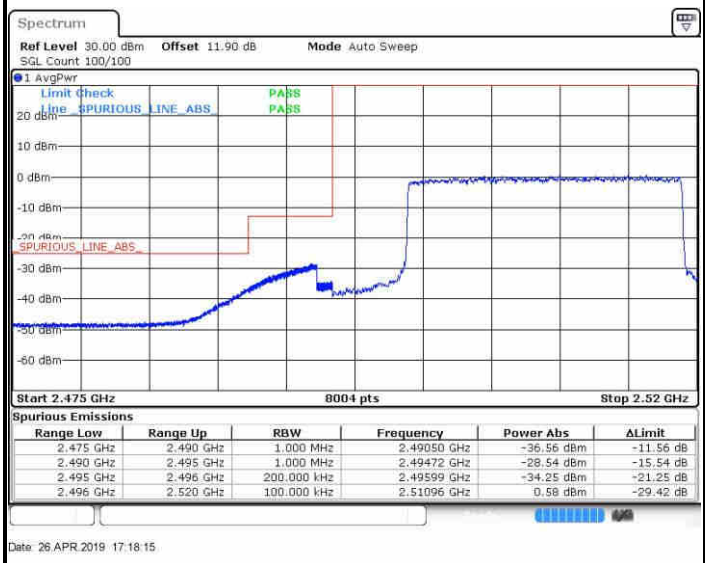

Date: 26.APR.2019 17:17:12

### Highest Band Edge / 1RB



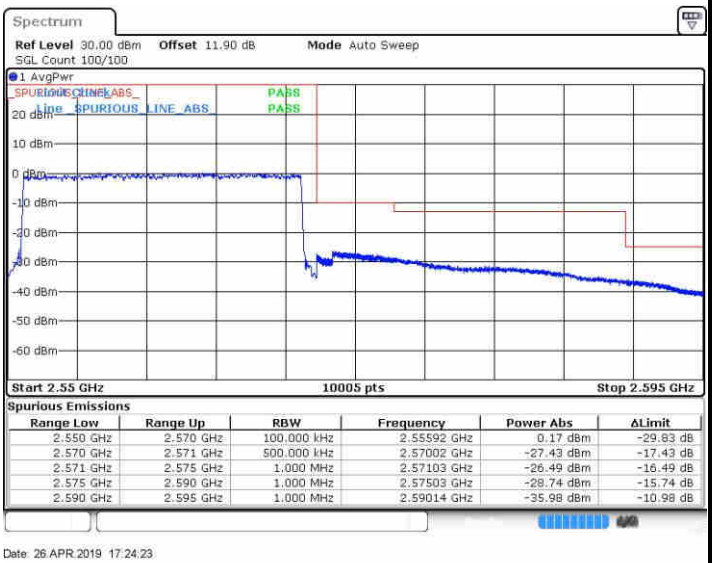

Date: 26.APR.2019 17:23:51

### Lowest Band Edge / Full RB




Date: 26.APR.2019 17:18:15

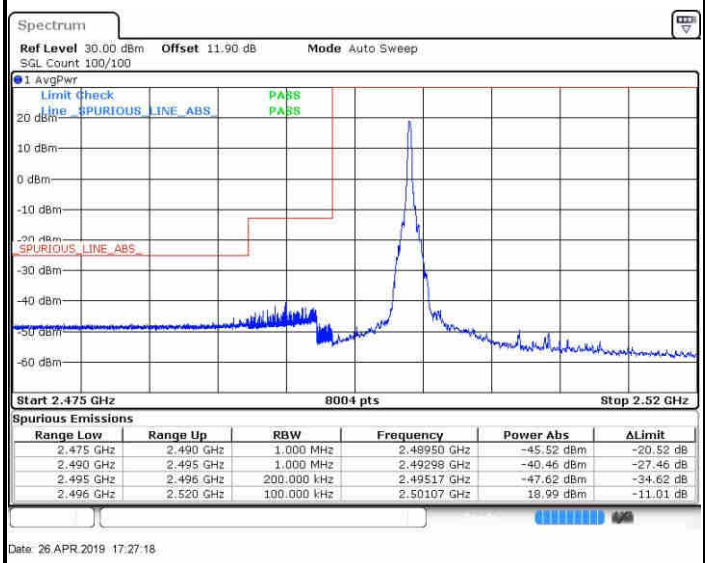
### Highest Band Edge / Full RB




Date: 26.APR.2019 17:24:23

## LTE Band 7 / 20MHz / 64QAM

### Lowest Band Edge / 1 RB

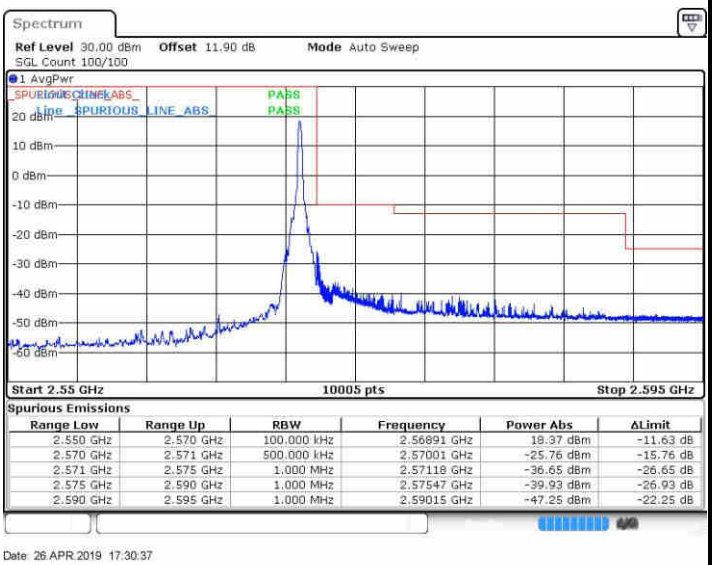



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.48950 GHz | -45.52 dBm | -20.52 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49298 GHz | -40.46 dBm | -27.46 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49517 GHz | -47.62 dBm | -34.62 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.50107 GHz | 18.99 dBm | -11.01 dB |

Date: 26.APR.2019 17:27:18

### Highest Band Edge / 1 RB

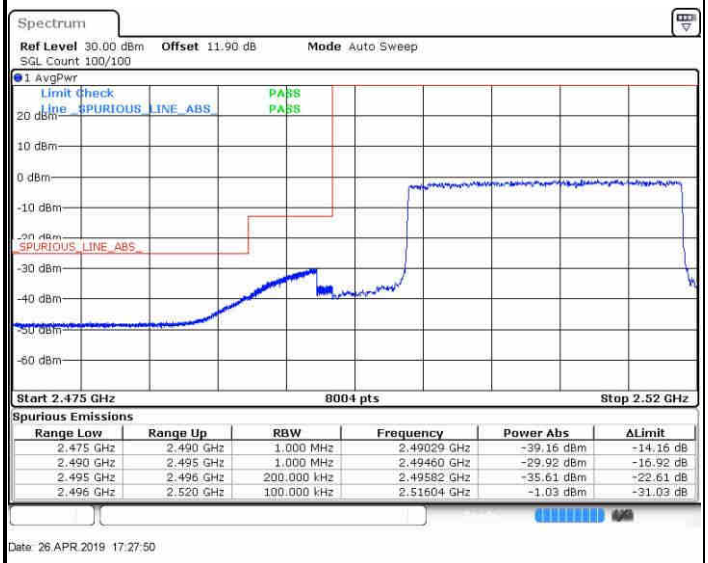



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56891 GHz | 18.37 dBm | -11.63 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57001 GHz | -25.76 dBm | -15.76 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57118 GHz | -36.65 dBm | -26.65 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57547 GHz | -39.93 dBm | -26.93 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59015 GHz | -47.25 dBm | -22.25 dB |

Date: 26.APR.2019 17:30:37

### Lowest Band Edge / Full RB

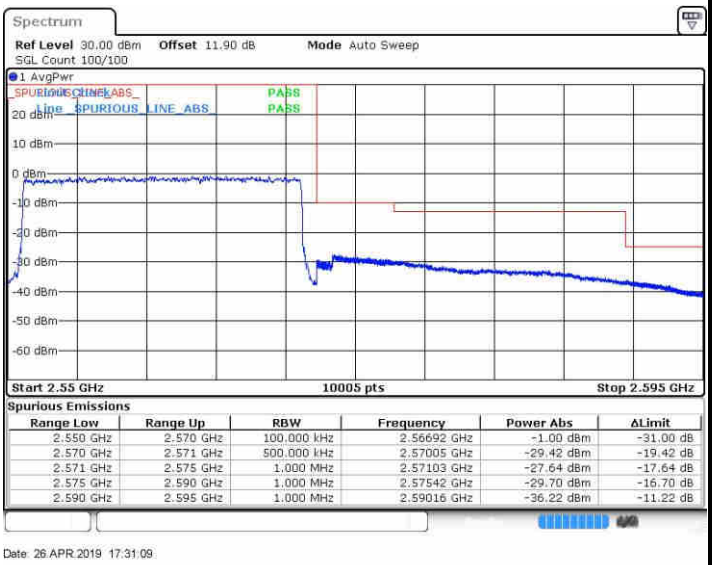



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.475 GHz | 2.490 GHz | 1.000 MHz | 2.49029 GHz | -39.16 dBm | -14.16 dB |
| 2.490 GHz | 2.495 GHz | 1.000 MHz | 2.49460 GHz | -29.92 dBm | -16.92 dB |
| 2.495 GHz | 2.496 GHz | 200.000 kHz | 2.49582 GHz | -35.61 dBm | -22.61 dB |
| 2.496 GHz | 2.520 GHz | 100.000 kHz | 2.51604 GHz | -1.03 dBm | -31.03 dB |

Date: 26.APR.2019 17:27:50

### Highest Band Edge / Full RB




Spurious Emissions

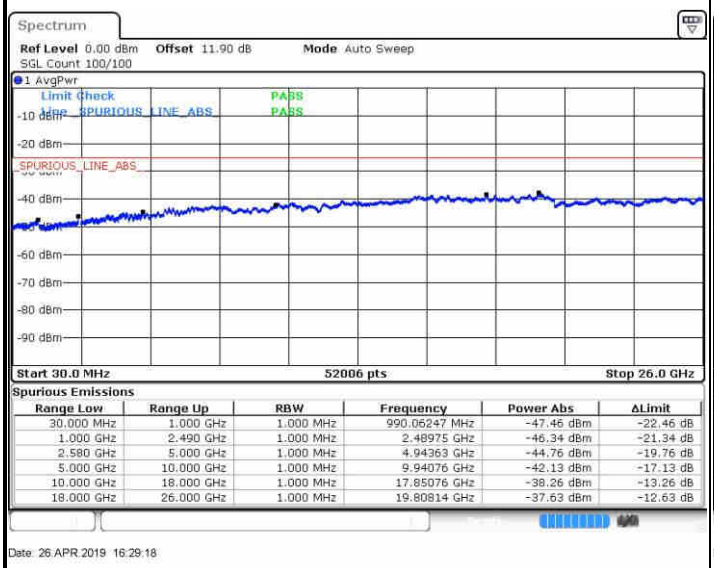
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.550 GHz | 2.570 GHz | 100.000 kHz | 2.56692 GHz | -1.00 dBm | -31.00 dB |
| 2.570 GHz | 2.571 GHz | 500.000 kHz | 2.57005 GHz | -29.42 dBm | -19.42 dB |
| 2.571 GHz | 2.575 GHz | 1.000 MHz | 2.57103 GHz | -27.64 dBm | -17.64 dB |
| 2.575 GHz | 2.590 GHz | 1.000 MHz | 2.57542 GHz | -29.70 dBm | -16.70 dB |
| 2.590 GHz | 2.595 GHz | 1.000 MHz | 2.59016 GHz | -36.22 dBm | -11.22 dB |

Date: 26.APR.2019 17:31:09

# Conducted Spurious Emission

## LTE Band 7 / 5MHz

### Lowest Channel / QPSK

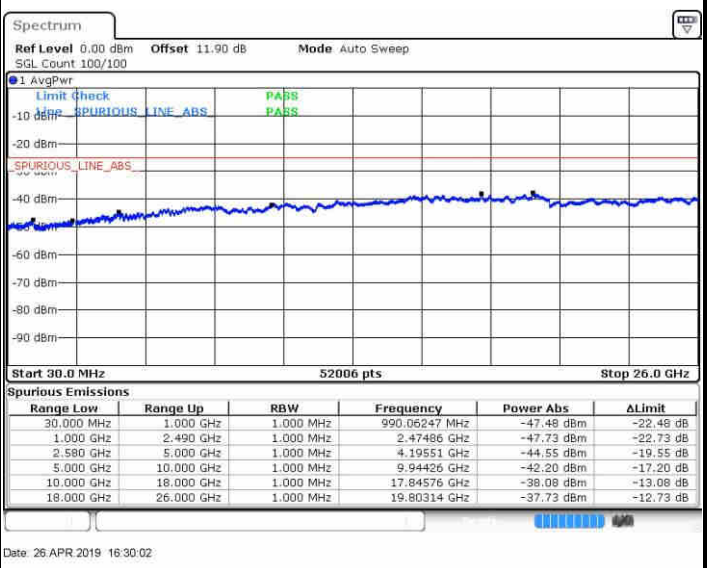



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 990.06247 MHz | -47.46 dBm | -22.46 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -46.34 dBm | -21.34 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.94363 GHz | -44.76 dBm | -19.76 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94076 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85076 GHz | -38.26 dBm | -13.26 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80814 GHz | -37.63 dBm | -12.63 dB |

Date: 26.APR.2019 16:29:18

### Lowest Channel / 16QAM

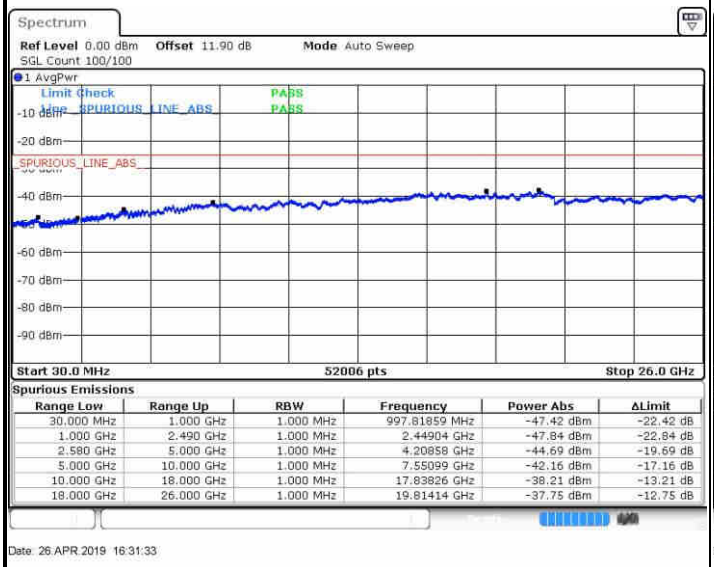



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 990.06247 MHz | -47.48 dBm | -22.48 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47486 GHz | -47.73 dBm | -22.73 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19551 GHz | -44.55 dBm | -19.55 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94426 GHz | -42.20 dBm | -17.20 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84576 GHz | -38.08 dBm | -13.08 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80314 GHz | -37.73 dBm | -12.73 dB |

Date: 26.APR.2019 16:30:02

### Middle Channel / QPSK

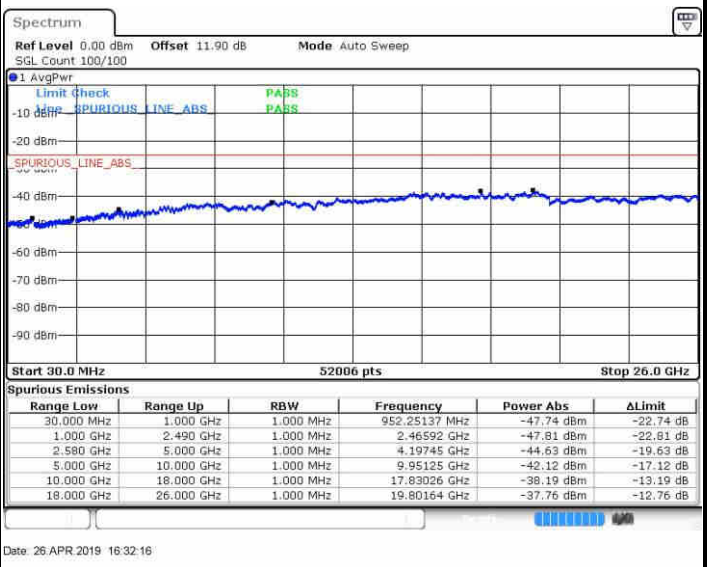



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 997.81859 MHz | -47.42 dBm | -22.42 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44904 GHz | -47.84 dBm | -22.84 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20858 GHz | -44.69 dBm | -19.69 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.55099 GHz | -42.16 dBm | -17.16 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83826 GHz | -38.21 dBm | -13.21 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81414 GHz | -37.75 dBm | -12.75 dB |

Date: 26.APR.2019 16:31:33

### Middle Channel / 16QAM



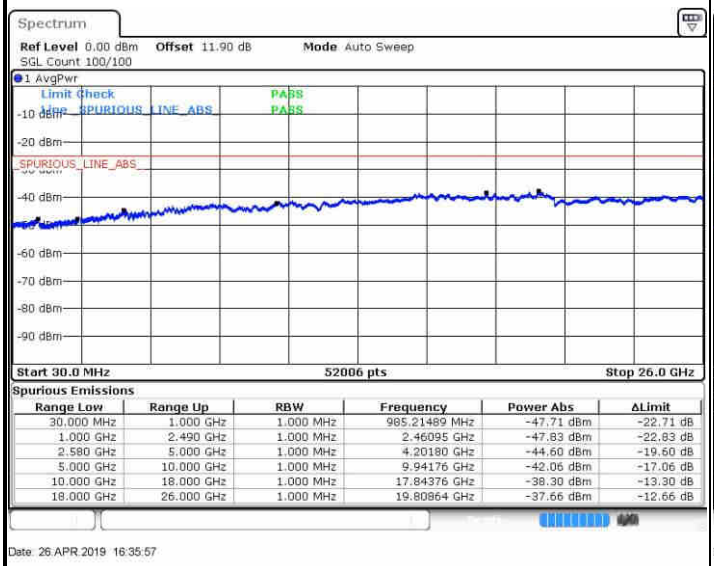

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 952.25137 MHz | -47.74 dBm | -22.74 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46592 GHz | -47.81 dBm | -22.81 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19745 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95125 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83026 GHz | -38.19 dBm | -13.19 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80164 GHz | -37.76 dBm | -12.76 dB |

Date: 26.APR.2019 16:32:16

## LTE Band 7 / 5MHz

### Highest Channel / QPSK

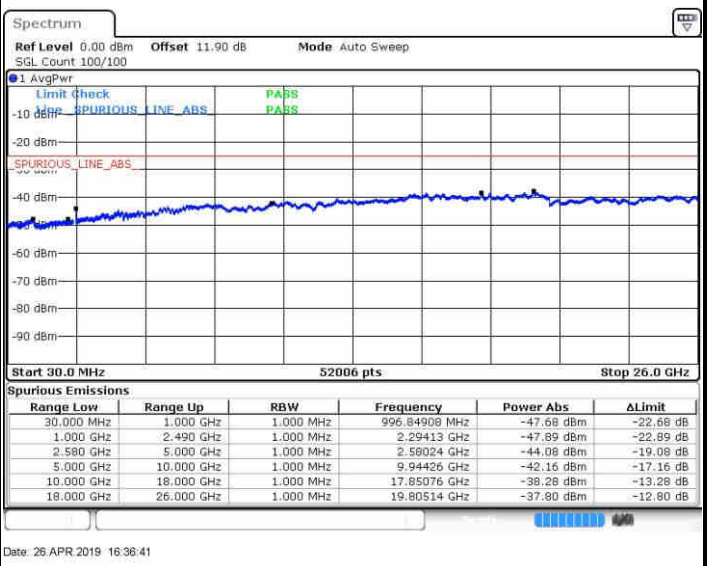



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 985.21489 MHz | -47.71 dBm | -22.71 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46095 GHz | -47.83 dBm | -22.83 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20180 GHz | -44.60 dBm | -19.60 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94176 GHz | -42.06 dBm | -17.06 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84376 GHz | -38.30 dBm | -13.30 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80864 GHz | -37.66 dBm | -12.66 dB |

Date: 26.APR.2019 16:35:57

### Highest Channel / 16QAM



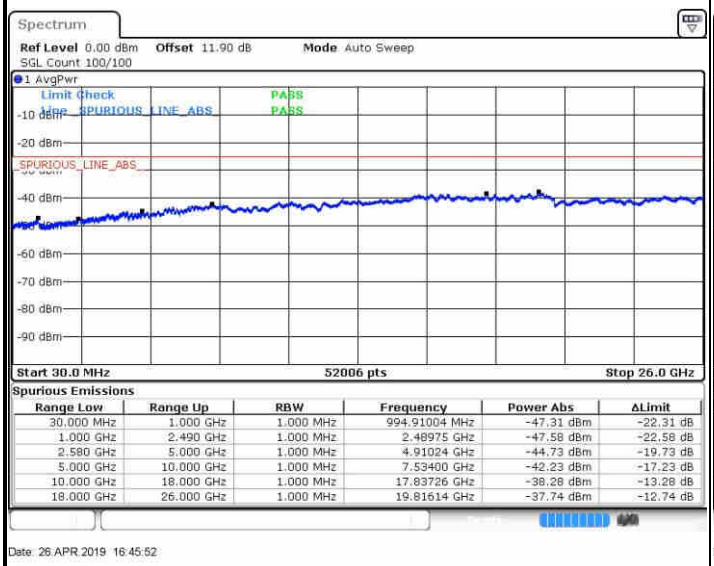

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 996.84908 MHz | -47.68 dBm | -22.68 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.29413 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58024 GHz | -44.08 dBm | -19.08 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94426 GHz | -42.16 dBm | -17.16 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85076 GHz | -38.28 dBm | -13.28 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80514 GHz | -37.80 dBm | -12.80 dB |

Date: 26.APR.2019 16:36:41

## LTE Band 7 / 10MHz

### Lowest Channel / QPSK

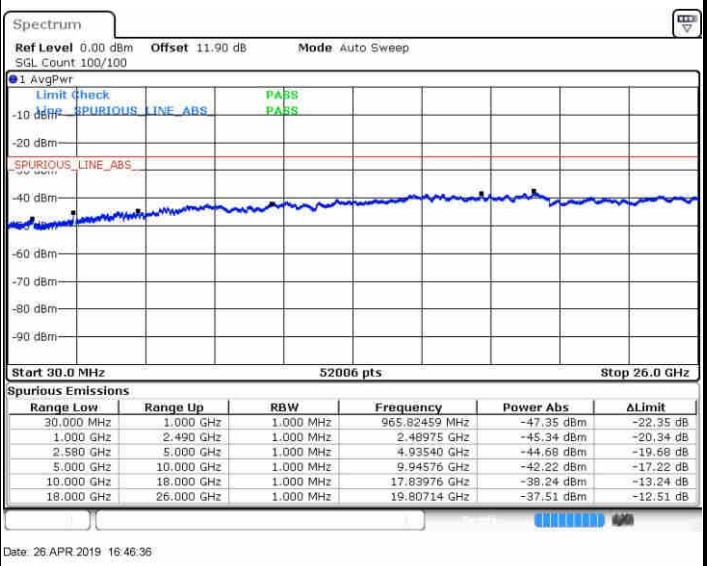



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -47.31 dBm | -22.31 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -47.58 dBm | -22.58 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.91024 GHz | -44.73 dBm | -19.73 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.53400 GHz | -42.23 dBm | -17.23 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83726 GHz | -38.28 dBm | -13.28 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81614 GHz | -37.74 dBm | -12.74 dB |

Date: 26.APR.2019 16:45:52

### Lowest Channel / 16QAM



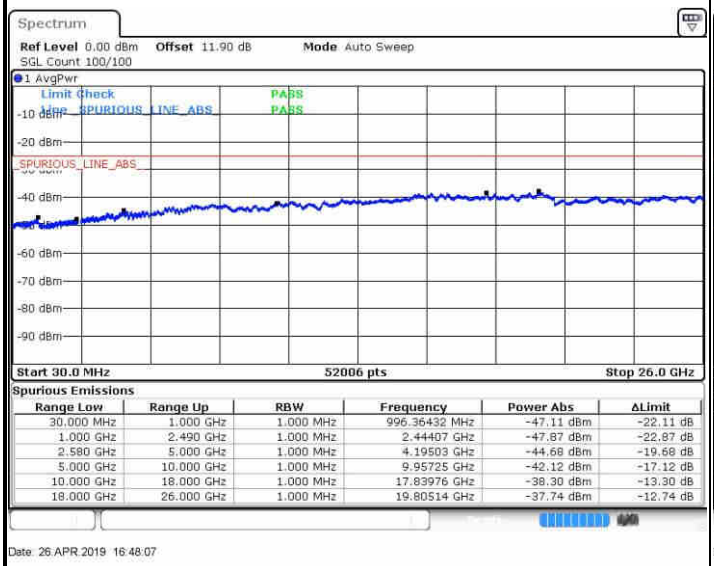

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 965.82459 MHz | -47.35 dBm | -22.35 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -45.34 dBm | -20.34 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93540 GHz | -44.68 dBm | -19.68 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94576 GHz | -42.22 dBm | -17.22 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83976 GHz | -38.24 dBm | -13.24 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80714 GHz | -37.51 dBm | -12.51 dB |

Date: 26.APR.2019 16:46:36

## LTE Band 7 / 10MHz

### Middle Channel / QPSK

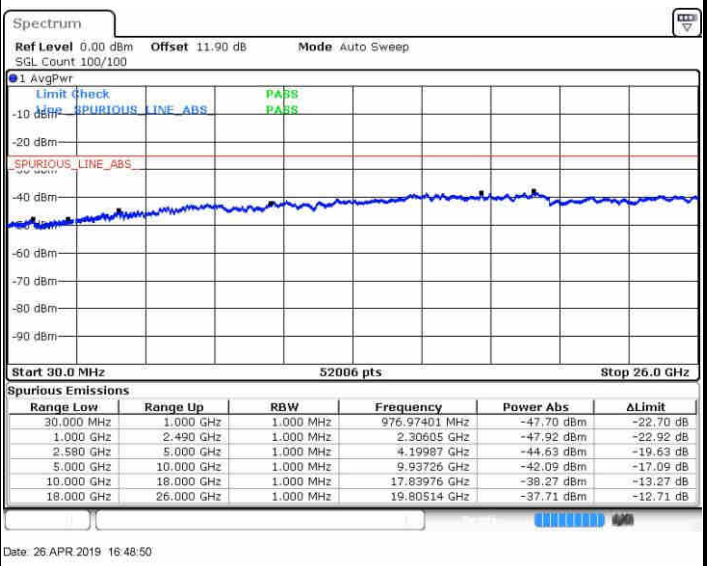



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 996.36432 MHz | -47.11 dBm | -22.11 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44407 GHz | -47.87 dBm | -22.87 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19503 GHz | -44.68 dBm | -19.68 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95725 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83976 GHz | -38.30 dBm | -13.30 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80514 GHz | -37.74 dBm | -12.74 dB |

Date: 26.APR.2019 16:48:07

### Middle Channel / 16QAM

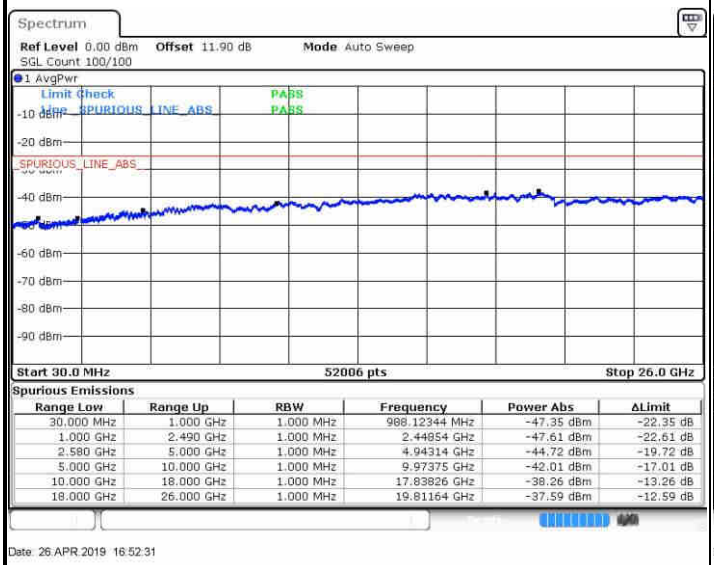



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 976.97401 MHz | -47.70 dBm | -22.70 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.30605 GHz | -47.92 dBm | -22.92 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19987 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93726 GHz | -42.09 dBm | -17.09 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83976 GHz | -38.27 dBm | -13.27 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80514 GHz | -37.71 dBm | -12.71 dB |

Date: 26.APR.2019 16:48:50

### Highest Channel / QPSK

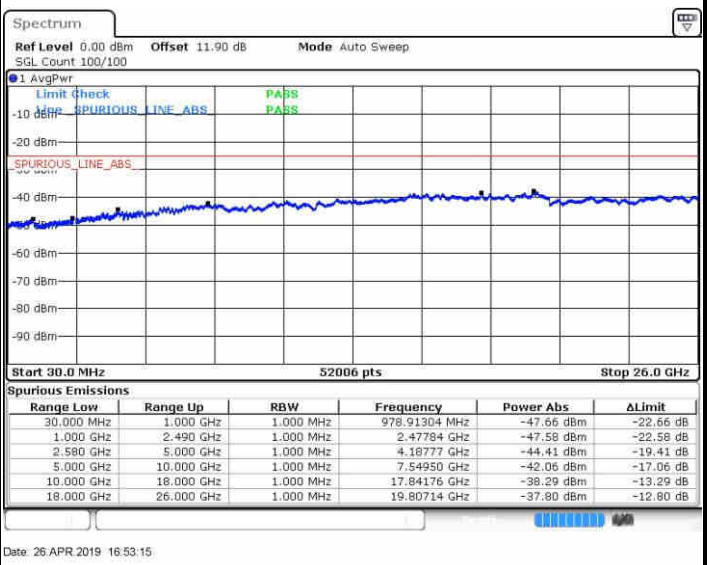



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 988.12344 MHz | -47.35 dBm | -22.35 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44854 GHz | -47.61 dBm | -22.61 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.94314 GHz | -44.72 dBm | -19.72 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.97375 GHz | -42.01 dBm | -17.01 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83826 GHz | -38.26 dBm | -13.26 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81164 GHz | -37.59 dBm | -12.59 dB |

Date: 26.APR.2019 16:52:31

### Highest Channel / 16QAM



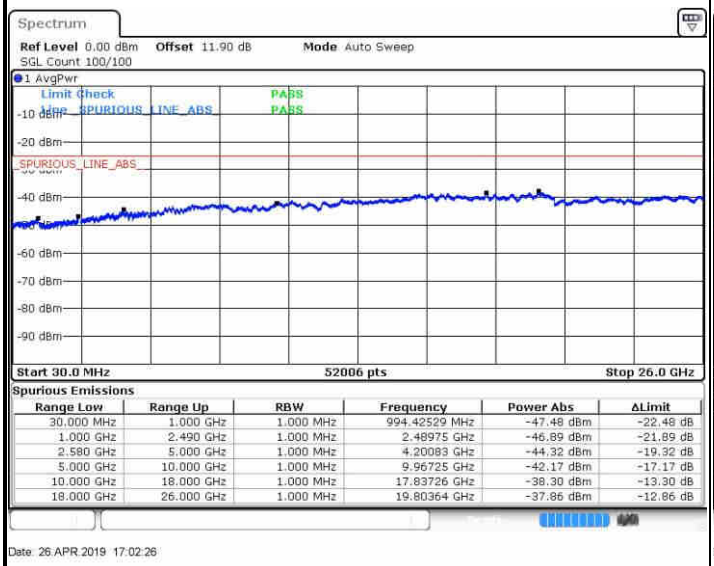

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.91304 MHz | -47.66 dBm | -22.66 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47784 GHz | -47.58 dBm | -22.58 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18777 GHz | -44.41 dBm | -19.41 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.54950 GHz | -42.06 dBm | -17.06 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84176 GHz | -38.29 dBm | -13.29 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80714 GHz | -37.80 dBm | -12.80 dB |

Date: 26.APR.2019 16:53:15

## LTE Band 7 / 15MHz

### Lowest Channel / QPSK

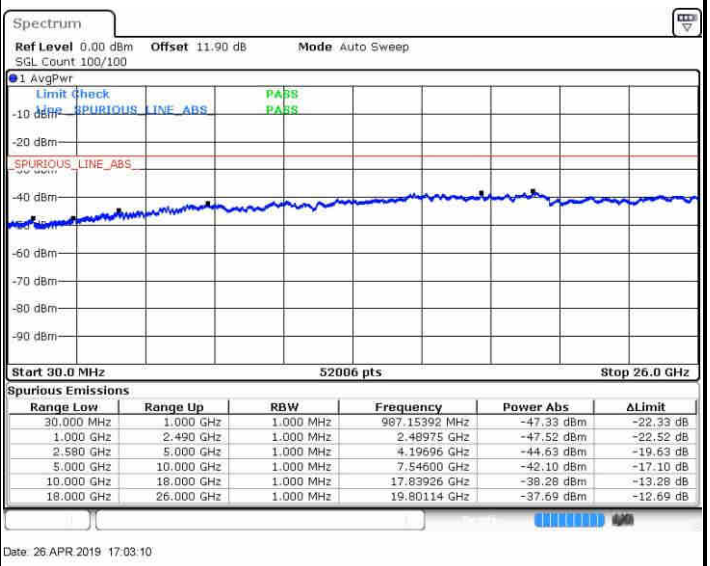



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -47.48 dBm | -22.48 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -46.89 dBm | -21.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.20083 GHz | -44.32 dBm | -19.32 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.96725 GHz | -42.17 dBm | -17.17 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83726 GHz | -38.30 dBm | -13.30 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80364 GHz | -37.86 dBm | -12.86 dB |

Date: 26.APR.2019 17:02:26

### Lowest Channel / 16QAM

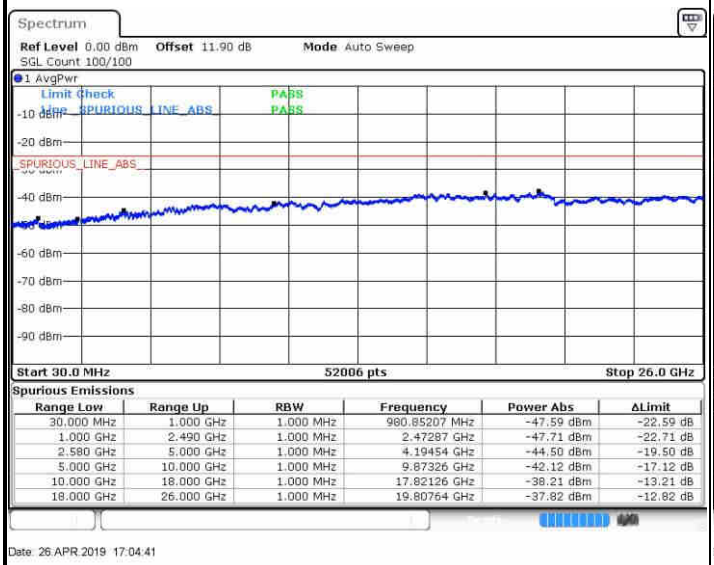



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 987.15392 MHz | -47.33 dBm | -22.33 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -47.52 dBm | -22.52 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19696 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.54600 GHz | -42.10 dBm | -17.10 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83926 GHz | -38.28 dBm | -13.28 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80114 GHz | -37.69 dBm | -12.69 dB |

Date: 26.APR.2019 17:03:10

### Middle Channel / QPSK

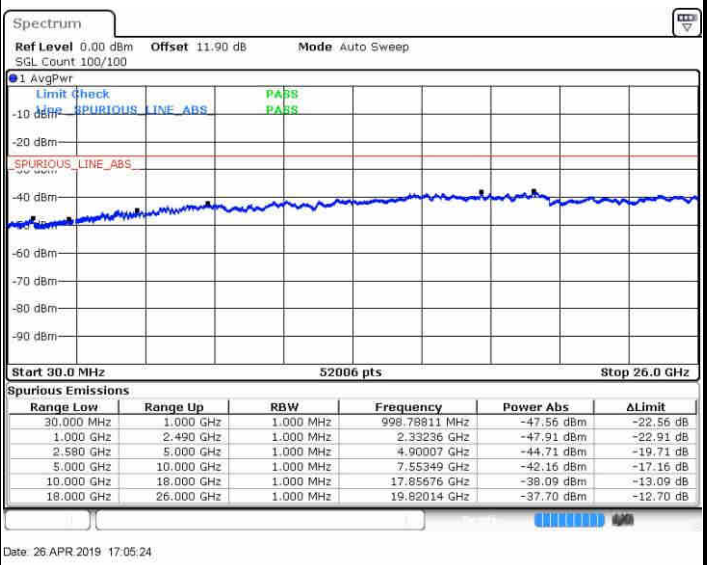



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 980.85207 MHz | -47.59 dBm | -22.59 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47287 GHz | -47.71 dBm | -22.71 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19454 GHz | -44.50 dBm | -19.50 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.87326 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.82126 GHz | -38.21 dBm | -13.21 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80764 GHz | -37.82 dBm | -12.82 dB |

Date: 26.APR.2019 17:04:41

### Middle Channel / 16QAM



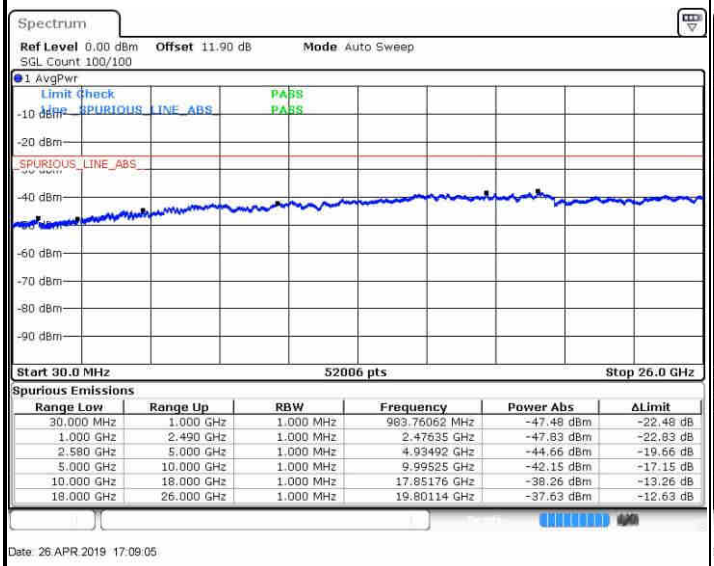

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 998.78811 MHz | -47.56 dBm | -22.56 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.33236 GHz | -47.91 dBm | -22.91 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.90007 GHz | -44.71 dBm | -19.71 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 7.55349 GHz | -42.16 dBm | -17.16 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85676 GHz | -38.09 dBm | -13.09 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.82014 GHz | -37.70 dBm | -12.70 dB |

Date: 26.APR.2019 17:05:24

## LTE Band7 / 15MHz

### Highest Channel / QPSK

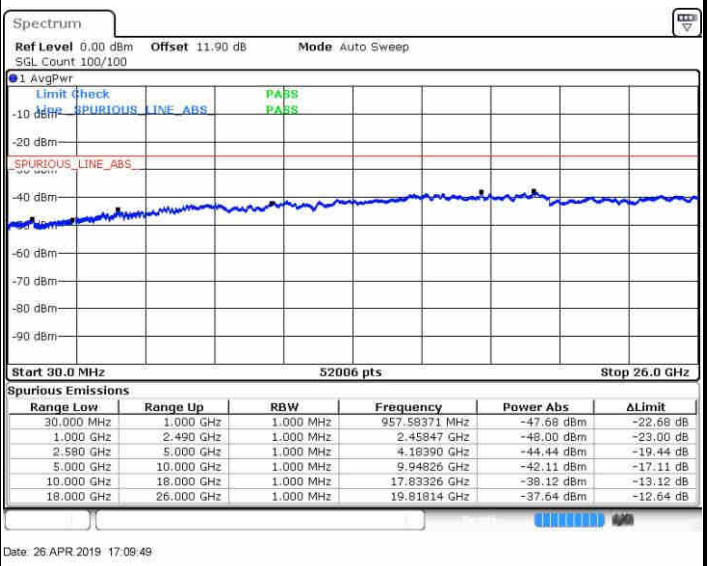



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 983.76062 MHz | -47.48 dBm | -22.48 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47635 GHz | -47.83 dBm | -22.83 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.93492 GHz | -44.66 dBm | -19.66 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.99525 GHz | -42.15 dBm | -17.15 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85176 GHz | -38.26 dBm | -13.26 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80114 GHz | -37.63 dBm | -12.63 dB |

Date: 26.APR.2019 17:09:05

### Highest Channel / 16QAM



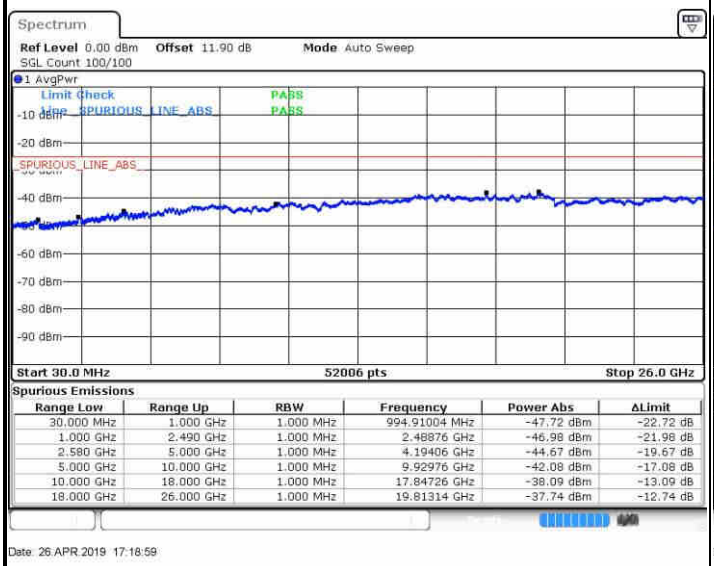

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 957.58371 MHz | -47.68 dBm | -22.68 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.45847 GHz | -46.00 dBm | -23.00 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18390 GHz | -44.44 dBm | -19.44 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94826 GHz | -42.11 dBm | -17.11 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83326 GHz | -38.12 dBm | -13.12 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81814 GHz | -37.64 dBm | -12.64 dB |

Date: 26.APR.2019 17:09:49

## LTE Band 7 / 20MHz

### Lowest Channel / QPSK

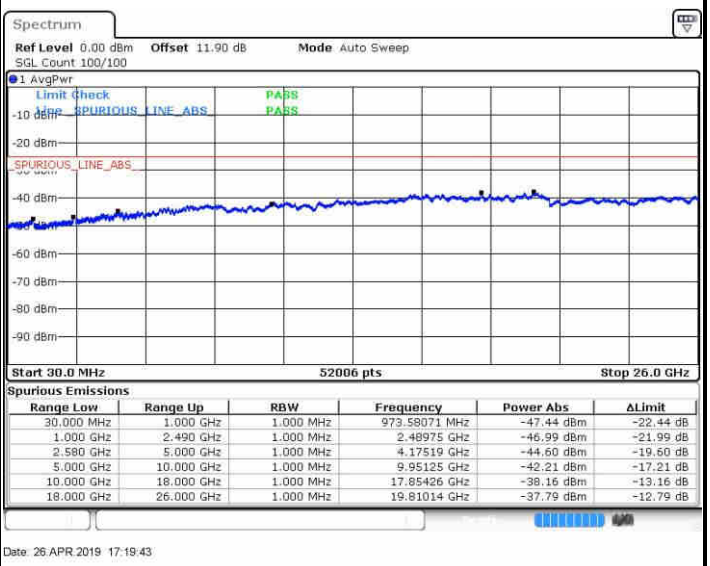



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.91004 MHz | -47.72 dBm | -22.72 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48876 GHz | -46.98 dBm | -21.98 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19406 GHz | -44.67 dBm | -19.67 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.92976 GHz | -42.08 dBm | -17.08 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84726 GHz | -38.09 dBm | -13.09 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81314 GHz | -37.74 dBm | -12.74 dB |

Date: 26.APR.2019 17:18:59

### Lowest Channel / 16QAM



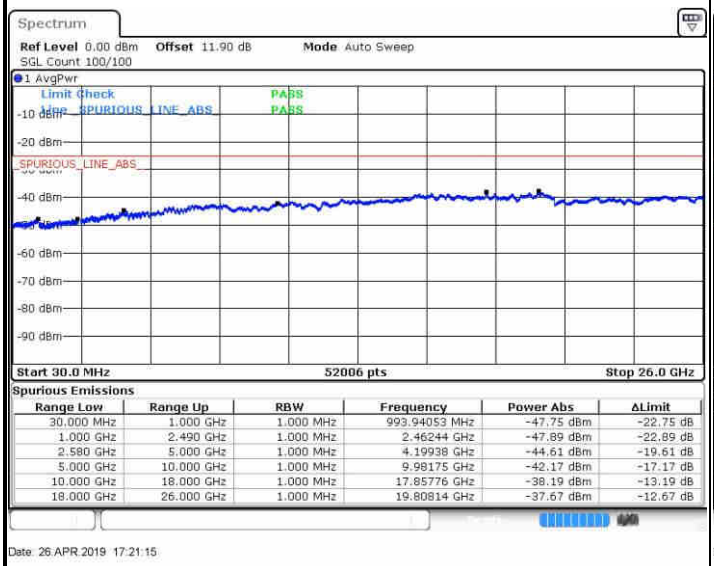

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 973.58071 MHz | -47.44 dBm | -22.44 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48975 GHz | -46.99 dBm | -21.99 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.17519 GHz | -44.60 dBm | -19.60 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95125 GHz | -42.21 dBm | -17.21 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85426 GHz | -38.16 dBm | -13.16 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81014 GHz | -37.79 dBm | -12.79 dB |

Date: 26.APR.2019 17:19:43

## LTE Band 7 / 20MHz

### Middle Channel / QPSK

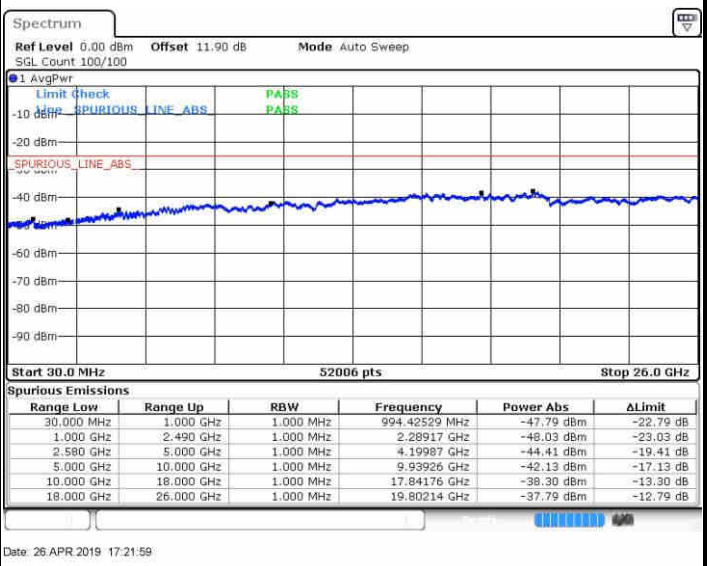



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 993.94053 MHz | -47.75 dBm | -22.75 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46244 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19938 GHz | -44.61 dBm | -19.61 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.98175 GHz | -42.17 dBm | -17.17 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85776 GHz | -38.19 dBm | -13.19 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80814 GHz | -37.67 dBm | -12.67 dB |

Date: 26.APR.2019 17:21:15

### Middle Channel / 16QAM

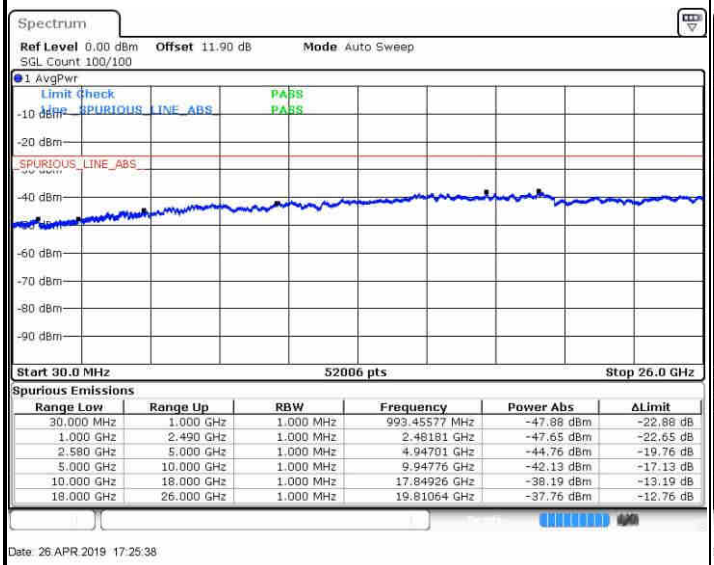



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 994.42529 MHz | -47.79 dBm | -22.79 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.28917 GHz | -48.03 dBm | -23.03 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19987 GHz | -44.41 dBm | -19.41 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93926 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84176 GHz | -38.30 dBm | -13.30 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80214 GHz | -37.79 dBm | -12.79 dB |

Date: 26.APR.2019 17:21:59

### Highest Channel / QPSK

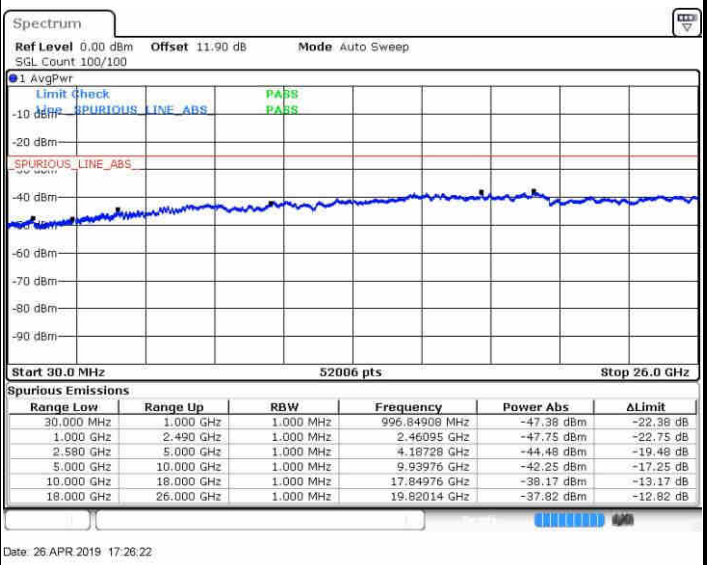



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 993.45577 MHz | -47.88 dBm | -22.88 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48181 GHz | -47.65 dBm | -22.65 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.94701 GHz | -44.76 dBm | -19.76 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94776 GHz | -42.13 dBm | -17.13 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84926 GHz | -38.19 dBm | -13.19 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81064 GHz | -37.76 dBm | -12.76 dB |

Date: 26.APR.2019 17:25:38

### Highest Channel / 16QAM



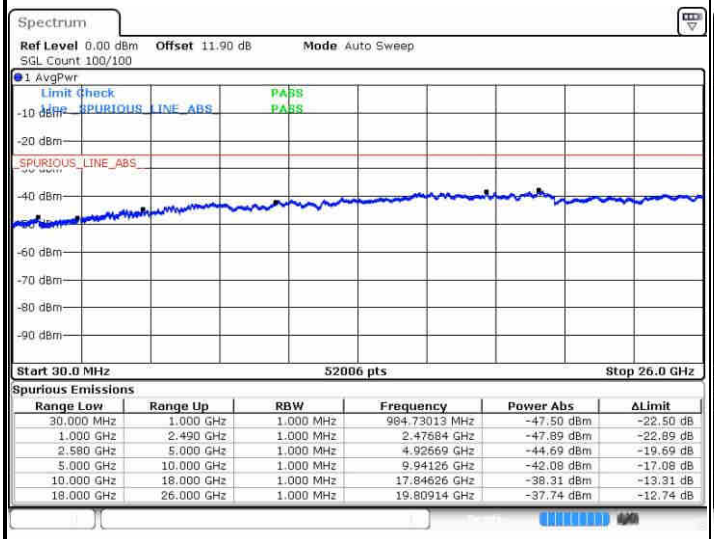

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 996.84908 MHz | -47.38 dBm | -22.38 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46095 GHz | -47.75 dBm | -22.75 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.18728 GHz | -44.48 dBm | -19.48 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93976 GHz | -42.25 dBm | -17.25 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84976 GHz | -38.17 dBm | -13.17 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.82014 GHz | -37.82 dBm | -12.82 dB |

Date: 26.APR.2019 17:26:22

## LTE Band 7 / 5MHz

### Lowest Channel / 64QAM

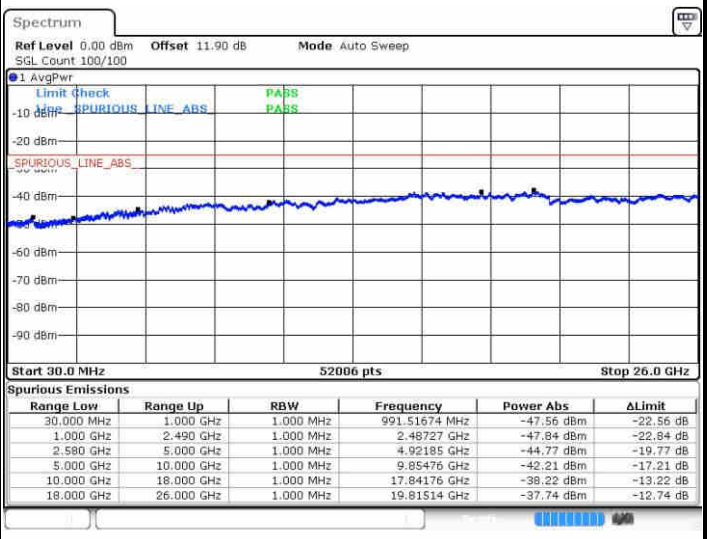



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 984.73013 MHz | -47.50 dBm | -22.50 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47684 GHz | -47.89 dBm | -22.89 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92669 GHz | -44.69 dBm | -19.69 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94126 GHz | -42.08 dBm | -17.08 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84626 GHz | -38.31 dBm | -13.31 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80914 GHz | -37.74 dBm | -12.74 dB |

Date: 26.APR.2019 16:38:52

### Middle Channel / 64QAM

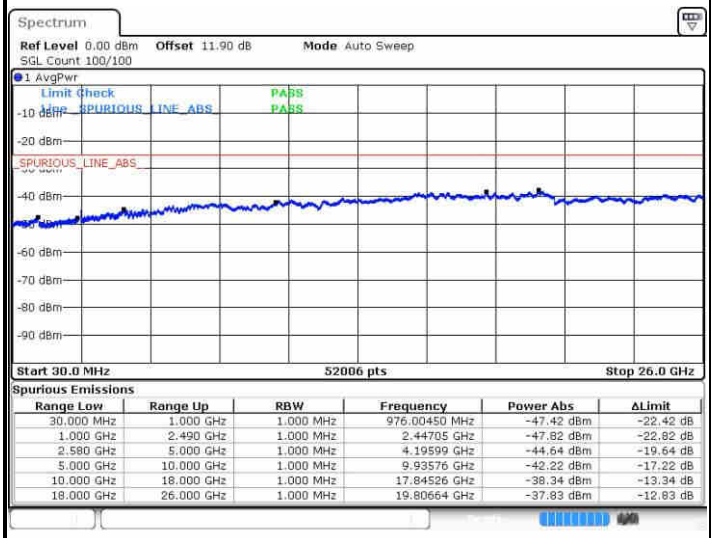



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.51674 MHz | -47.56 dBm | -22.56 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48727 GHz | -47.84 dBm | -22.84 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92185 GHz | -44.77 dBm | -19.77 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.85476 GHz | -42.21 dBm | -17.21 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84176 GHz | -38.22 dBm | -13.22 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81514 GHz | -37.74 dBm | -12.74 dB |

Date: 26.APR.2019 16:40:00

### Highest Channel / 64QAM



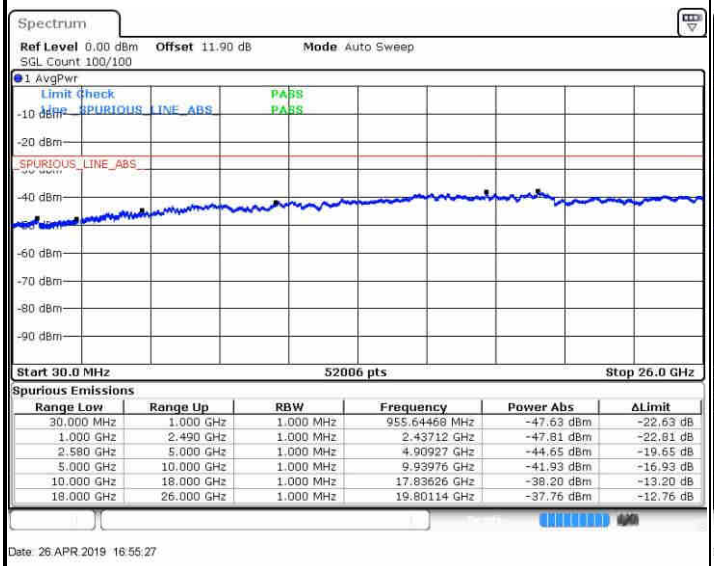

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 976.00450 MHz | -47.42 dBm | -22.42 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.44705 GHz | -47.82 dBm | -22.82 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19599 GHz | -44.64 dBm | -19.64 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93576 GHz | -42.22 dBm | -17.22 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84526 GHz | -38.34 dBm | -13.34 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80664 GHz | -37.83 dBm | -12.83 dB |

Date: 26.APR.2019 16:42:11

## LTE Band 7 / 10MHz

### Lowest Channel / 64QAM

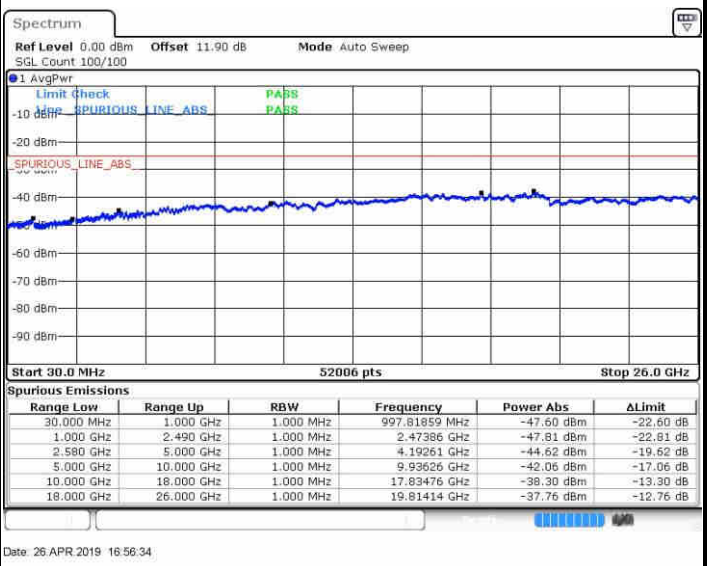



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 955.64468 MHz | -47.63 dBm | -22.63 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.43712 GHz | -47.81 dBm | -22.81 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.90927 GHz | -44.65 dBm | -19.65 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93976 GHz | -41.93 dBm | -16.93 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83626 GHz | -38.20 dBm | -13.20 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80114 GHz | -37.76 dBm | -12.76 dB |

Date: 26.APR.2019 16:55:27

### Middle Channel / 64QAM

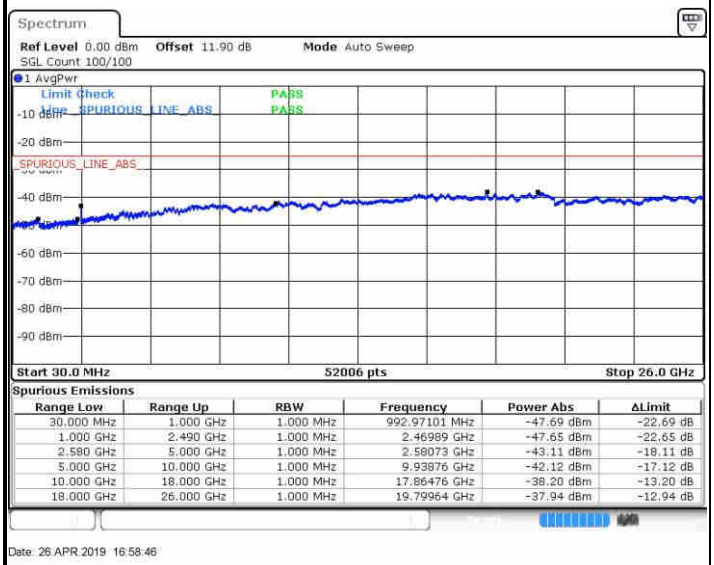



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 997.81859 MHz | -47.60 dBm | -22.60 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47386 GHz | -47.81 dBm | -22.81 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19261 GHz | -44.62 dBm | -19.62 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93626 GHz | -42.06 dBm | -17.06 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83476 GHz | -38.30 dBm | -13.30 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81414 GHz | -37.76 dBm | -12.76 dB |

Date: 26.APR.2019 16:56:34

### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 992.97101 MHz | -47.69 dBm | -22.69 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.46989 GHz | -47.65 dBm | -22.65 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 2.58073 GHz | -43.11 dBm | -18.11 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93876 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.86476 GHz | -38.20 dBm | -13.20 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.79964 GHz | -37.94 dBm | -12.94 dB |

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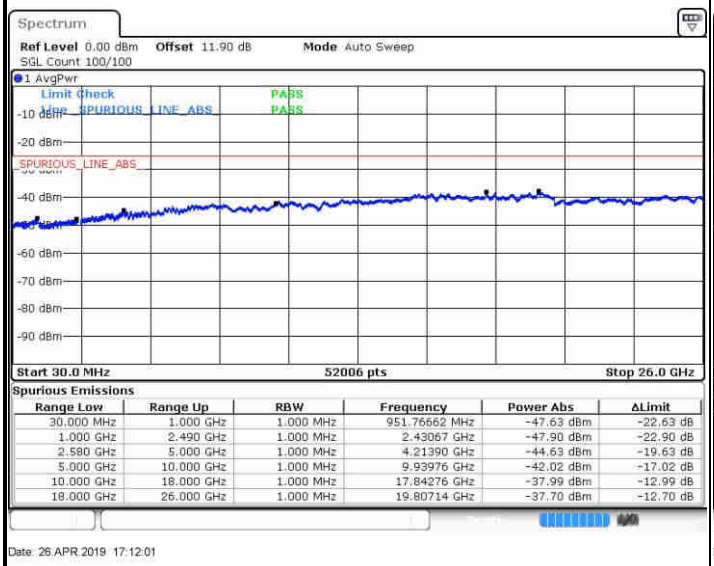
## LTE Band 7 / 15MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 951.76662 MHz | -47.63 dBm | -22.63 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.43067 GHz | -47.90 dBm | -22.90 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.21390 GHz | -44.63 dBm | -19.63 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93976 GHz | -42.02 dBm | -17.02 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84276 GHz | -37.99 dBm | -12.99 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.80714 GHz | -37.70 dBm | -12.70 dB |

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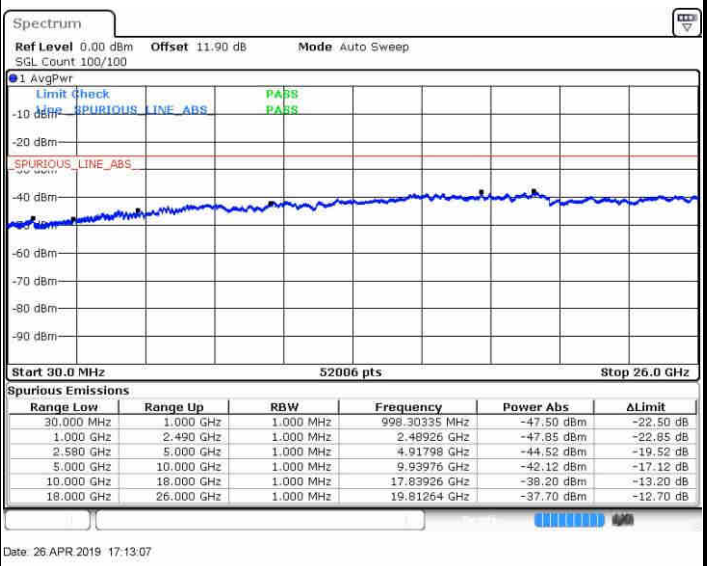
### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 998.30335 MHz | -47.50 dBm | -22.50 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48926 GHz | -47.85 dBm | -22.85 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.91798 GHz | -44.52 dBm | -19.52 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.93976 GHz | -42.12 dBm | -17.12 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83926 GHz | -38.20 dBm | -13.20 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81264 GHz | -37.70 dBm | -12.70 dB |

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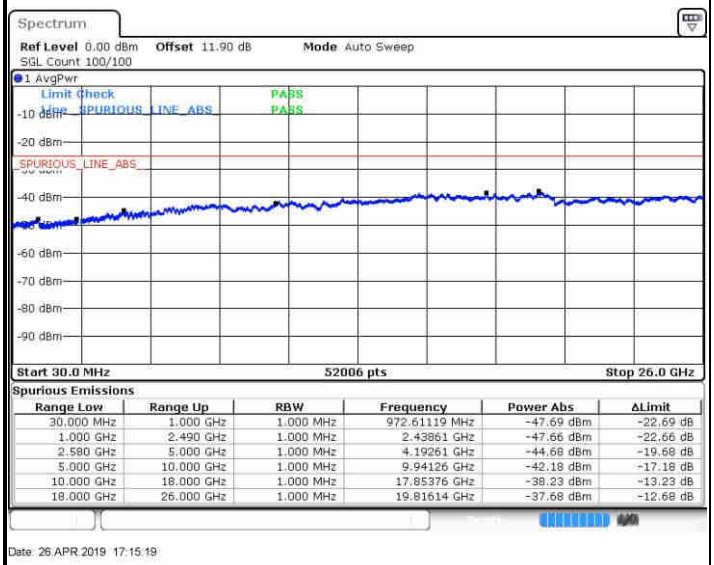
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 972.61119 MHz | -47.69 dBm | -22.69 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.43861 GHz | -47.66 dBm | -22.66 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19261 GHz | -44.68 dBm | -19.68 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94126 GHz | -42.18 dBm | -17.18 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.85376 GHz | -38.23 dBm | -13.23 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81614 GHz | -37.68 dBm | -12.68 dB |

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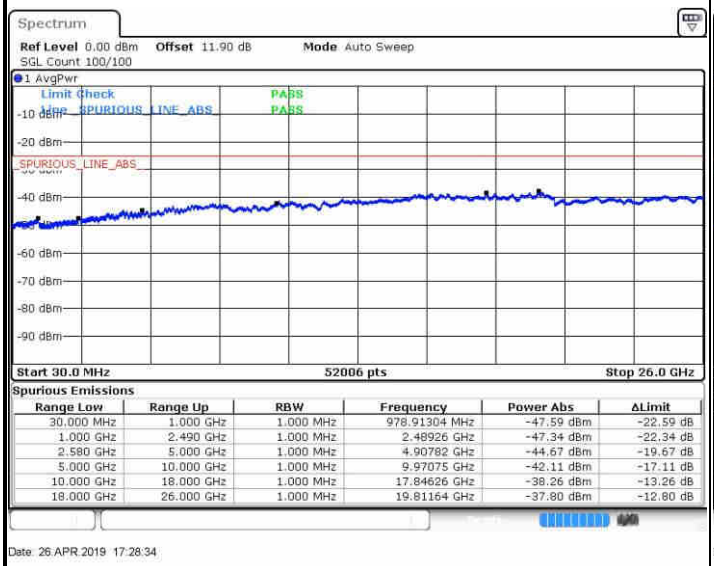
## LTE Band 7 / 20MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.91304 MHz | -47.59 dBm | -22.59 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48926 GHz | -47.34 dBm | -22.34 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.90782 GHz | -44.67 dBm | -19.67 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.97075 GHz | -42.11 dBm | -17.11 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.84626 GHz | -38.26 dBm | -13.26 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81164 GHz | -37.80 dBm | -12.80 dB |

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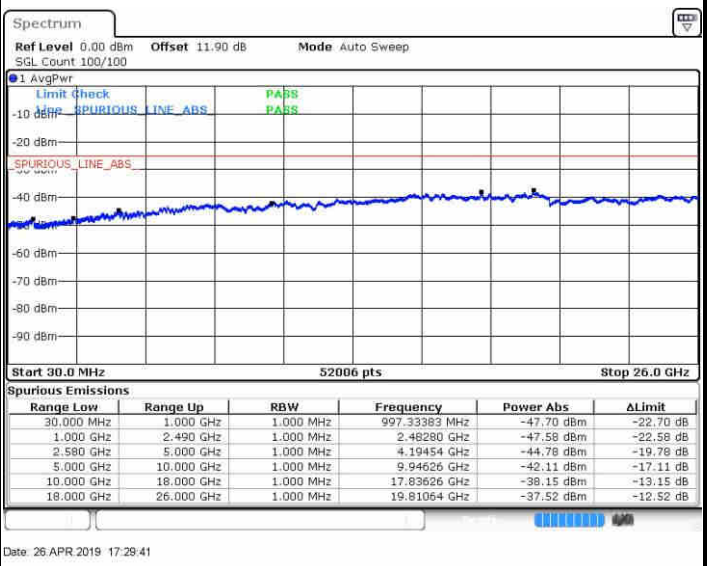
### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 997.33383 MHz | -47.70 dBm | -22.70 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.48280 GHz | -47.58 dBm | -22.58 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.19454 GHz | -44.78 dBm | -19.78 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.94626 GHz | -42.11 dBm | -17.11 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.83626 GHz | -38.15 dBm | -13.15 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.81064 GHz | -37.52 dBm | -12.52 dB |

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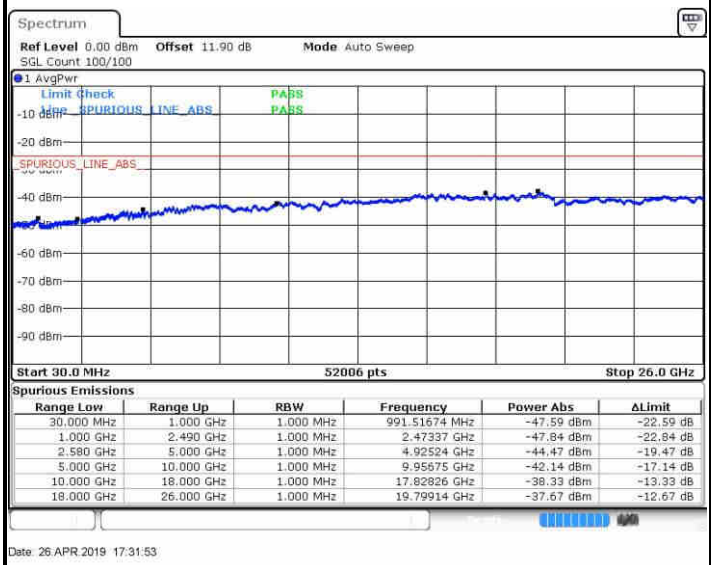
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 991.51674 MHz | -47.59 dBm | -22.59 dB |
| 1.000 GHz | 2.490 GHz | 1.000 MHz | 2.47337 GHz | -47.84 dBm | -22.84 dB |
| 2.580 GHz | 5.000 GHz | 1.000 MHz | 4.92524 GHz | -44.47 dBm | -19.47 dB |
| 5.000 GHz | 10.000 GHz | 1.000 MHz | 9.95675 GHz | -42.14 dBm | -17.14 dB |
| 10.000 GHz | 18.000 GHz | 1.000 MHz | 17.82826 GHz | -38.33 dBm | -13.33 dB |
| 18.000 GHz | 26.000 GHz | 1.000 MHz | 19.79914 GHz | -37.67 dBm | -12.67 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 7 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0033 | PASS |
| 40 | Normal Voltage | 0.0010 | |
| 30 | Normal Voltage | 0.0006 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0054 | |
| 0 | Normal Voltage | 0.0009 | |
| -10 | Normal Voltage | 0.0006 | |
| -20 | Normal Voltage | 0.0038 | |
| -30 | Normal Voltage | 0.0062 | |
| 20 | Maximum Voltage | 0.0048 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0052 | |

**Note:**

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.5 V.；Maximum Voltage =4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.