The following test report with report number FG5N0815-01M is an addendum to the RF spot check test report for FCC ID: A4RGM45K variant model GM45K.
It contains test data from FCC ID: A4RG7SWN reference model G7SWN that is referenced in the variant model GM45K RF spot check report.

# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| **FCC ID** | : | **A4RG7SWN** |
| **Equipment** | : | **Phone** |
| **Model Name** | : | **G7SWN** |
| **Applicant** | : | **Google LLC**<br>**1600 Amphitheatre Parkway,**<br>**Mountain View, CA, 94043 USA** |
| **Standard** | : | **FCC 47 CFR Part 2, Part 90(R), Part 90(S)** |

**The product was received on Nov. 18, 2025 and testing was performed from Nov. 18, 2025 to May 27, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI and has been in compliance with the applicable technical standards.**

**The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.**

Louis Wu

**Approved by: Louis Wu**

***Sporton International Inc. Wensan Laboratory***
*No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)*

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| Appendix A Conducted Test Result Page No. Information | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LTE Band | Appendix | PAR | 26dB BW | OBW | CBE | Mask | CSE | FS |
| 14 | A14 | A14-1 | A14-3 | A14-4 | A14-5 | A14-7 | A14-11 | A14-13 |
| 26_90S | A26B | A26B-1 | A26B-5 | A26B-7 | N/A | A26B-9 | A26B-13 | A26B-18 |
| 26_90S Straddle | A26C | A26C-1 | A26C-5 | A26C-7 | N/A | N/A | A26C-9 | A26C-11 |

# History of this test report

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| FG5N0815-01M | 01 | Initial issue of report | Apr. 22, 2026 |
| FG5N0815-01M | 02 | Add PAR Full Bandwidth test data | May 29, 2026 |
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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 | Pass | - |
| | §22.913 (a)(5)<br>§90.635 | Effective Radiated Power<br>(Band 26) | Pass | |
| | §90.542 (a)(7) | Effective Radiated Power<br>(Band 14) | | |
| 3.3 | - | Peak-to-Average Ratio | Reporting only | - |
| 3.4 | §2.1049 | Occupied Bandwidth | Pass | - |
| 3.5 | §2.1051<br>§22.917 (a) | Conducted Band Edge Measurement<br>(Band 26) | Pass | - |
| | §2.1051<br>§90.543 (e)(2) | Conducted Band Edge Measuremen<br>(Band 14) | | |
| 3.6 | §2.1051<br>§90.210 (n) | Emission Mask<br>(Band 14) | Pass | - |
| | §2.1051<br>§90.691 | Emission masks<br>(Band 26) | | |
| 3.7 | §2.1051<br>§22.917<br>(a)§90.691 | Conducted Spurious Emission<br>(Band 26) | Pass | - |
| | §2.1051<br>§90.543 (e)(3) | Conducted Spurious Emission<br>(Band 14) | | |
| 3.8 | §2.1055<br>§22.355<br>§90.539 (e)<br>§90.691 | Frequency Stability<br>Temperature & Voltage | Pass | - |
| 4.2 | §2.1053<br>§22.917<br>(a)§90.691 | Radiated Spurious Emission<br>(Band 26) | Pass | - |
| | §2.1053<br>§90.543 (e)(3)<br>§90.543 (f) | Radiated Spurious Emission<br>(Band 14) | | |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: William Chen**

**Report Producer: Aya Yang**

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

| Product Feature |
|---|
| **General Specs**<br>GSM/WCDMA/LTE/5G NR/NTN , Bluetooth, BLE, BLE channel sounding, Wi-Fi 802.11ax, NFC, WPC Rx and GNSS Rx.<br><br>**Antenna Type**<br>WWAN:<br>**<Ant. 0>:** ILA Antenna<br>**<Ant. 1>:** ILA Antenna |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

| EUT Information List | |
|---|---|
| **S/N** | **Performed Test Item** |
| 5B041FDDW0000V | Conducted Measurement<br>ERP/EIRP |
| 5B111FDDQ0000B | Radiated Spurious Emission |

| Support band and evaluated information | |
|---|---|
| **Supported band** | B14, B26 |
| **Evaluated and Tested band** | B14, B26 |

| Antenna information | | | | | | |
|---|---|---|---|---|---|---|
| **Band** | **Ant0** | **Ant1** | | | **Main Ant. #** | **Sub Ant. #** |
| **B14** | -4 | -6.3 | | | 0 | 1 |
| **B26** | -4.7 | -6.3 | | | 0 | 1 |

**Remark:**
1. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
2. After preliminary scan, the main antenna Ant 0 for Low band and main antenna Ant 2 for Mid/high band are selected as the worst mode to be reported for conducted test.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

| | | |
|---|---|---|
| **Test Site** | Sporton International Inc. Wensan Laboratory | |
| **Test Site Location** | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City 333010, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 | |
| **Test Site No.** | **Sporton Site No.** | |
| | TH05-HY | 03CH20-HY |
| **Test Engineer** | Yuki Chen | John Chuang, David Dai and Sam Chou |
| **Temperature (℃)** | 22.3~22.9 | 18.3~22.8 |
| **Relative Humidity (%)** | 53.2~55.5 | 63.7~71.1 |

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

FCC Designation No.: TW3786

## 1.4 Applicable Standards

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

- ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 90(R), Part 90(S)
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01.

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

# 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find worst plane as below.

| Plane | Main Antenna | Sub Antenna |
|---|---|---|
| B14 | Z with adapter | Y with adapter |
| B26 (90S) | Z with adapter | Y with adapter |

| Modulation Type | Modulation |
|---|---|
| A | QPSK |
| B | 16QAM |
| C | 64QAM |
| D | 256QAM |

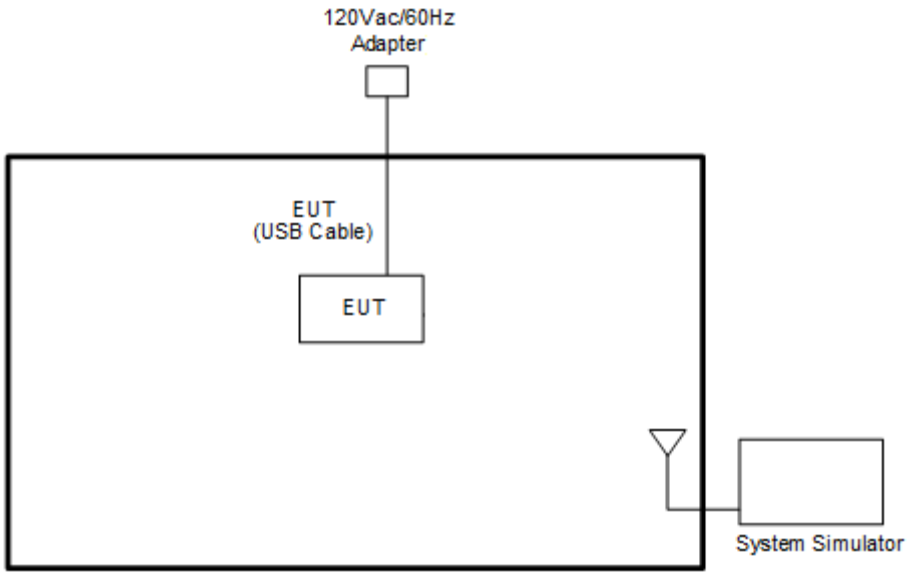
| Test Item | Modulation Type | Bandwidth | RB Size | Channel |
|---|---|---|---|---|
| Conducted Power | A, B, C, D | All | 1, Half, Full | L, M, H |
| EIRP | A, B, C, D | All | 1, Half, Full | L, M, H |
| PAR | A, B, C, D | All | Full | M |
| Bandwidth | A, B, C, D | All | Full | M |
| CBE, Mask (Part 90) | A, B, C, D | Minimum | 1RB | L, M, H |
| | | All | Full | |
| CSE | A | Minimum | 1RB | L, M, H |
| Frequency Stability | A | 10MHz/15MHz (B26) | Full | L, M |
| | | 10 MHz or less (other) | | |
| RSE | A | 5MHz/15MHz (B26) | 1RB | L, M, H |
| | | 10 MHz or less (other) | | |

**Remark:**

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.

## 2.2 Connection Diagram of Test System

**<EUT with Adapter>**




## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | System Simulator | Anritsu | MT8821C | N/A | N/A | Unshielded, 1.8 m |
| 2. | AC Adapter | N/A | GW8L7 | 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 14 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 10 | Channel | - | 23330 | - |
| | Frequency | - | 793 | - |
| 5 | Channel | 23305 | 23330 | 23355 |
| | Frequency | 790.5 | 793 | 795.5 |

| LTE Band 26 Channel and Frequency List (Part90 S) | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 10 | Channel | - | 26740 | - |
| | Frequency | - | 819 | - |
| 5 | Channel | 26715 | 26740 | 26765 |
| | Frequency | 816.5 | 819 | 821.5 |
| 3 | Channel | 26705 | 26740 | 26775 |
| | Frequency | 815.5 | 819 | 822.5 |
| 1.4 | Channel | 26697 | 26740 | 26783 |
| | Frequency | 814.7 | 819 | 823.3 |
| **LTE Band 26 Channel and Frequency List (Part90 S)** | | | | |
| **BW [MHz]** | **Channel/Frequency(MHz)** | **cross-rule channels** | | |
| 15 | Channel | 26765 | 26790 | - |
| | Frequency | 821.5 | 824 | - |
| 10 | Channel | - | 26790 | - |
| | Frequency | - | 824 | - |
| 5 | Channel | - | 26790 | - |
| | Frequency | - | 824 | - |
| 3 | Channel | - | 26790 | - |
| | Frequency | - | 824 | - |
| 1.4 | Channel | - | 26790 | - |
| | Frequency | - | 824 | - |

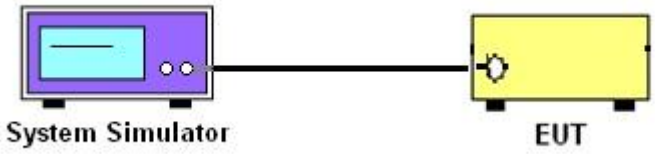
# 3 Conducted Test Items

## 3.1 Measuring Instruments

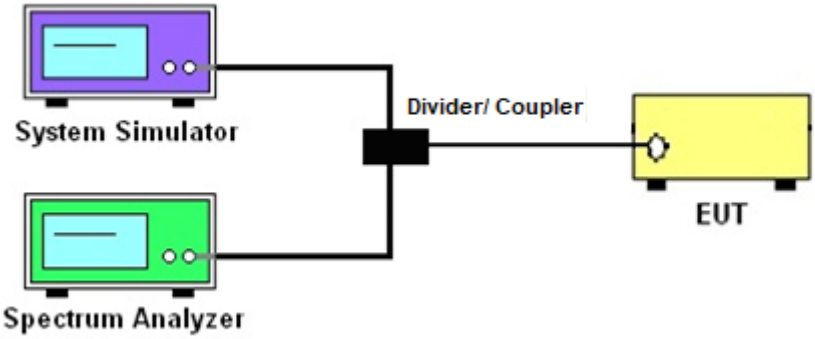
See list of measuring instruments of this test report.

### 3.1.1 Test Setup

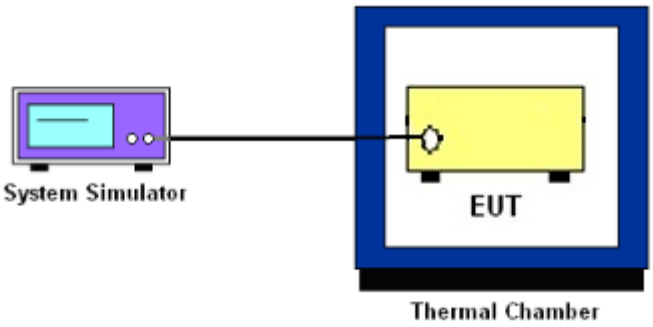
### 3.1.2 Conducted Output Power




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

### 3.2.1 Description of the Conducted Output Power Measurement and ERP 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 26 (Part 22H)

The conducted power of mobile transmitters must not exceed 100 Watts for LTE Band 26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14

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.

### 3.2.3 Test Result of the Conducted Output Power and ERP/EIRP Measurement

<LTE B14 TX0 ANT2>

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = -4 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10 | 1 | 0 | QPSK | - | 24.60 | - | 18.45 | 0.0700 |
| 10 | 1 | 25 | | - | 24.52 | - | | |
| 10 | 1 | 49 | | - | 24.45 | - | | |
| 10 | 25 | 0 | | - | 23.56 | - | | |
| 10 | 25 | 12 | | - | 23.48 | - | | |
| 10 | 25 | 25 | | - | 23.49 | - | | |
| 10 | 50 | 0 | | - | 23.49 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.74 | - | 17.59 | 0.0574 |
| 10 | 1 | 25 | | - | 23.72 | - | | |
| 10 | 1 | 49 | | - | 23.58 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.66 | - | 16.51 | 0.0448 |
| 10 | 1 | 25 | | - | 22.64 | - | | |
| 10 | 1 | 49 | | - | 22.60 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 19.57 | - | 13.43 | 0.0220 |
| 10 | 1 | 25 | | - | 19.58 | - | | |
| 10 | 1 | 49 | | - | 19.47 | - | | |
| 5 | 1 | 0 | QPSK | 24.52 | 24.59 | 24.57 | 18.44 | 0.0698 |
| 5 | 1 | 12 | | 24.53 | 24.52 | 24.49 | | |
| 5 | 1 | 24 | | 24.56 | 24.52 | 24.39 | | |
| 5 | 12 | 0 | | 23.47 | 23.48 | 23.44 | | |
| 5 | 12 | 7 | | 23.38 | 23.37 | 23.37 | | |
| 5 | 12 | 13 | | 23.42 | 23.41 | 23.41 | | |
| 5 | 25 | 0 | | 23.53 | 23.49 | 23.46 | | |
| 5 | 1 | 0 | 16-QAM | 23.69 | 23.81 | 23.76 | 17.66 | 0.0583 |
| 5 | 1 | 12 | | 23.64 | 23.69 | 23.69 | | |
| 5 | 1 | 24 | | 23.76 | 23.77 | 23.59 | | |
| 5 | 1 | 0 | 64-QAM | 22.68 | 22.73 | 22.74 | 16.59 | 0.0456 |
| 5 | 1 | 12 | | 22.69 | 22.62 | 22.60 | | |
| 5 | 1 | 24 | | 22.65 | 22.66 | 22.52 | | |
| 5 | 1 | 0 | 256-QAM | 19.55 | 19.66 | 19.60 | 13.51 | 0.0224 |
| 5 | 1 | 12 | | 19.58 | 19.53 | 19.47 | | |
| 5 | 1 | 24 | | 19.57 | 19.49 | 19.44 | | |
| Limit | ERP < 3W | | | Result | | | Pass | |

<LTE B14 TX1 ANT0>

| LTE Band 14 Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 10 | 1 | 0 | QPSK | - | 24.09 | - | 15.64 | 0.0366 |
| 10 | 1 | 25 | | - | 24.04 | - | | |
| 10 | 1 | 49 | | - | 24.05 | - | | |
| 10 | 25 | 0 | | - | 23.09 | - | | |
| 10 | 25 | 12 | | - | 23.03 | - | | |
| 10 | 25 | 25 | | - | 23.06 | - | | |
| 10 | 50 | 0 | | - | 23.03 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.34 | - | 14.89 | 0.0308 |
| 10 | 1 | 25 | | - | 23.31 | - | | |
| 10 | 1 | 49 | | - | 23.21 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.18 | - | 13.73 | 0.0236 |
| 10 | 1 | 25 | | - | 22.18 | - | | |
| 10 | 1 | 49 | | - | 22.15 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 19.05 | - | 10.60 | 0.0115 |
| 10 | 1 | 25 | | - | 19.04 | - | | |
| 10 | 1 | 49 | | - | 19.02 | - | | |
| 5 | 1 | 0 | QPSK | 24.01 | 24.06 | 24.05 | 15.62 | 0.0365 |
| 5 | 1 | 12 | | 24.03 | 24.00 | 24.07 | | |
| 5 | 1 | 24 | | 24.04 | 24.06 | 24.05 | | |
| 5 | 12 | 0 | | 23.00 | 22.96 | 23.01 | | |
| 5 | 12 | 7 | | 22.89 | 22.86 | 22.96 | | |
| 5 | 12 | 13 | | 22.92 | 22.97 | 22.99 | | |
| 5 | 25 | 0 | | 22.99 | 23.01 | 23.06 | | |
| 5 | 1 | 0 | 16-QAM | 23.24 | 23.28 | 23.32 | 14.97 | 0.0314 |
| 5 | 1 | 12 | | 23.17 | 23.15 | 23.30 | | |
| 5 | 1 | 24 | | 23.30 | 23.42 | 23.25 | | |
| 5 | 1 | 0 | 64-QAM | 22.18 | 22.18 | 22.18 | 13.80 | 0.0240 |
| 5 | 1 | 12 | | 22.20 | 22.14 | 22.21 | | |
| 5 | 1 | 24 | | 22.15 | 22.25 | 22.17 | | |
| 5 | 1 | 0 | 256-QAM | 19.03 | 19.13 | 19.07 | 10.68 | 0.0117 |
| 5 | 1 | 12 | | 18.99 | 19.05 | 19.09 | | |
| 5 | 1 | 24 | | 19.09 | 19.04 | 19.02 | | |
| Limit | ERP < 3W | | | Result | | | Pass | |

<LTE B26 TX0 ANT0>

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15 | 1 | 0 | QPSK | 24.42 | - | - | 17.57 | 0.0571 |
| 15 | 1 | 37 | | 24.30 | - | - | | |
| 15 | 1 | 74 | | 24.38 | - | - | | |
| 15 | 36 | 0 | | 23.25 | - | - | | |
| 15 | 36 | 20 | | 23.17 | - | - | | |
| 15 | 36 | 39 | | 23.22 | - | - | | |
| 15 | 75 | 0 | | 23.23 | - | - | | |
| 15 | 1 | 0 | 16-QAM | 23.61 | - | - | 16.76 | 0.0474 |
| 15 | 1 | 37 | | 23.53 | - | - | | |
| 15 | 1 | 74 | | 23.58 | - | - | | |
| 15 | 1 | 0 | 64-QAM | 22.50 | - | - | 15.65 | 0.0367 |
| 15 | 1 | 37 | | 22.35 | - | - | | |
| 15 | 1 | 74 | | 22.44 | - | - | | |
| 15 | 1 | 0 | 256-QAM | 19.57 | - | - | 12.72 | 0.0187 |
| 15 | 1 | 37 | | 19.35 | - | - | | |
| 15 | 1 | 74 | | 19.53 | - | - | | |
| 10 | 1 | 0 | QPSK | - | 24.41 | - | 17.56 | 0.0570 |
| 10 | 1 | 25 | | - | 24.33 | - | | |
| 10 | 1 | 49 | | - | 24.32 | - | | |
| 10 | 25 | 0 | | - | 23.34 | - | | |
| 10 | 25 | 12 | | - | 23.28 | - | | |
| 10 | 25 | 25 | | - | 23.28 | - | | |
| 10 | 50 | 0 | | - | 23.26 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.61 | - | 16.76 | 0.0474 |
| 10 | 1 | 25 | | - | 23.57 | - | | |
| 10 | 1 | 49 | | - | 23.51 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.48 | - | 15.63 | 0.0366 |
| 10 | 1 | 25 | | - | 22.45 | - | | |
| 10 | 1 | 49 | | - | 22.40 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 19.45 | - | 12.60 | 0.0182 |
| 10 | 1 | 25 | | - | 19.45 | - | | |
| 10 | 1 | 49 | | - | 19.41 | - | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5 | 1 | 0 | QPSK | 24.36 | 24.35 | 24.28 | 17.60 | 0.0575 |
| 5 | 1 | 12 | | 24.35 | 24.28 | 24.45 | | |
| 5 | 1 | 24 | | 24.33 | 24.39 | 24.38 | | |
| 5 | 12 | 0 | | 23.33 | 23.43 | 23.35 | | |
| 5 | 12 | 7 | | 23.26 | 23.18 | 23.35 | | |
| 5 | 12 | 13 | | 23.28 | 23.30 | 23.36 | | |
| 5 | 25 | 0 | | 23.37 | 23.34 | 23.33 | | |
| 5 | 1 | 0 | 16-QAM | 23.66 | 23.72 | 23.68 | 16.87 | 0.0486 |
| 5 | 1 | 12 | | 23.51 | 23.51 | 23.56 | | |
| 5 | 1 | 24 | | 23.58 | 23.49 | 23.57 | | |
| 5 | 1 | 0 | 64-QAM | 22.57 | 22.47 | 22.56 | 15.73 | 0.0374 |
| 5 | 1 | 12 | | 22.48 | 22.41 | 22.38 | | |
| 5 | 1 | 24 | | 22.48 | 22.41 | 22.58 | | |
| 5 | 1 | 0 | 256-QAM | 19.53 | 19.51 | 19.56 | 12.71 | 0.0187 |
| 5 | 1 | 12 | | 19.46 | 19.43 | 19.51 | | |
| 5 | 1 | 24 | | 19.53 | 19.47 | 19.46 | | |
| 3 | 1 | 0 | QPSK | 24.33 | 24.23 | 24.34 | 17.49 | 0.0561 |
| 3 | 1 | 8 | | 24.25 | 24.28 | 24.28 | | |
| 3 | 1 | 14 | | 24.33 | 24.24 | 24.34 | | |
| 3 | 8 | 0 | | 23.32 | 23.31 | 23.25 | | |
| 3 | 8 | 4 | | 23.27 | 23.37 | 23.20 | | |
| 3 | 8 | 7 | | 23.28 | 23.26 | 23.22 | | |
| 3 | 15 | 0 | | 23.31 | 23.38 | 23.26 | | |
| 3 | 1 | 0 | 16-QAM | 23.56 | 23.52 | 23.61 | 16.80 | 0.0479 |
| 3 | 1 | 8 | | 23.52 | 23.53 | 23.53 | | |
| 3 | 1 | 14 | | 23.62 | 23.63 | 23.65 | | |
| 3 | 1 | 0 | 64-QAM | 22.44 | 22.35 | 22.36 | 15.64 | 0.0366 |
| 3 | 1 | 8 | | 22.39 | 22.49 | 22.46 | | |
| 3 | 1 | 14 | | 22.44 | 22.39 | 22.38 | | |
| 3 | 1 | 0 | 256-QAM | 19.55 | 19.45 | 19.51 | 12.70 | 0.0186 |
| 3 | 1 | 8 | | 19.47 | 19.52 | 19.39 | | |
| 3 | 1 | 14 | | 19.44 | 19.50 | 19.47 | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4 | 1 | 0 | QPSK | 24.31 | 24.33 | 24.21 | 17.51 | 0.0564 |
| 1.4 | 1 | 3 | | 24.29 | 24.34 | 24.24 | | |
| 1.4 | 1 | 5 | | 24.33 | 24.23 | 24.36 | | |
| 1.4 | 3 | 0 | | 24.25 | 24.31 | 24.32 | | |
| 1.4 | 3 | 1 | | 24.23 | 24.23 | 24.30 | | |
| 1.4 | 3 | 3 | | 24.28 | 24.23 | 24.26 | | |
| 1.4 | 6 | 0 | | 23.22 | 23.19 | 23.19 | | |
| 1.4 | 1 | 0 | 16-QAM | 23.54 | 23.45 | 23.48 | 16.70 | 0.0468 |
| 1.4 | 1 | 3 | | 23.47 | 23.42 | 23.55 | | |
| 1.4 | 1 | 5 | | 23.48 | 23.45 | 23.53 | | |
| 1.4 | 1 | 0 | 64-QAM | 22.45 | 22.40 | 22.36 | 15.70 | 0.0372 |
| 1.4 | 1 | 3 | | 22.43 | 22.46 | 22.40 | | |
| 1.4 | 1 | 5 | | 22.46 | 22.55 | 22.45 | | |
| 1.4 | 1 | 0 | 256-QAM | 19.47 | 19.40 | 19.56 | 12.74 | 0.0188 |
| 1.4 | 1 | 3 | | 19.45 | 19.47 | 19.48 | | |
| 1.4 | 1 | 5 | | 19.49 | 19.59 | 19.40 | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15 | 1 | 0 | QPSK | - | 24.52 | - | 17.67 | 0.0585 |
| 15 | 1 | 37 | | - | 24.25 | - | | |
| 15 | 1 | 74 | | - | 24.28 | - | | |
| 15 | 36 | 0 | | - | 23.17 | - | | |
| 15 | 36 | 20 | | - | 23.16 | - | | |
| 15 | 36 | 39 | | - | 23.26 | - | | |
| 15 | 75 | 0 | | - | 23.18 | - | | |
| 15 | 1 | 0 | 16-QAM | - | 23.59 | - | 16.74 | 0.0472 |
| 15 | 1 | 37 | | - | 23.46 | - | | |
| 15 | 1 | 74 | | - | 23.58 | - | | |
| 15 | 1 | 0 | 64-QAM | - | 22.44 | - | 15.62 | 0.0365 |
| 15 | 1 | 37 | | - | 22.42 | - | | |
| 15 | 1 | 74 | | - | 22.47 | - | | |
| 15 | 1 | 0 | 256-QAM | - | 19.60 | - | 12.77 | 0.0189 |
| 15 | 1 | 37 | | - | 19.27 | - | | |
| 15 | 1 | 74 | | - | 19.62 | - | | |
| 10 | 1 | 0 | QPSK | - | 24.36 | - | 17.51 | 0.0564 |
| 10 | 1 | 25 | | - | 24.25 | - | | |
| 10 | 1 | 49 | | - | 24.33 | - | | |
| 10 | 25 | 0 | | - | 23.45 | - | | |
| 10 | 25 | 12 | | - | 23.25 | - | | |
| 10 | 25 | 25 | | - | 23.36 | - | | |
| 10 | 50 | 0 | | - | 23.30 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.63 | - | 16.78 | 0.0476 |
| 10 | 1 | 25 | | - | 23.62 | - | | |
| 10 | 1 | 49 | | - | 23.63 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.50 | - | 15.65 | 0.0367 |
| 10 | 1 | 25 | | - | 22.42 | - | | |
| 10 | 1 | 49 | | - | 22.39 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 19.50 | - | 12.69 | 0.0186 |
| 10 | 1 | 25 | | - | 19.37 | - | | |
| 10 | 1 | 49 | | - | 19.48 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5 | 1 | 0 | QPSK | - | 24.39 | - | 17.59 | 0.0574 |
| 5 | 1 | 12 | | - | 24.44 | - | | |
| 5 | 1 | 24 | | - | 24.26 | - | | |
| 5 | 12 | 0 | | - | 23.25 | - | | |
| 5 | 12 | 7 | | - | 23.22 | - | | |
| 5 | 12 | 13 | | - | 23.31 | - | | |
| 5 | 25 | 0 | | - | 23.30 | - | | |
| 5 | 1 | 0 | 16-QAM | - | 23.59 | - | 16.74 | 0.0472 |
| 5 | 1 | 12 | | - | 23.43 | - | | |
| 5 | 1 | 24 | | - | 23.49 | - | | |
| 5 | 1 | 0 | 64-QAM | - | 22.62 | - | 15.77 | 0.0378 |
| 5 | 1 | 12 | | - | 22.38 | - | | |
| 5 | 1 | 24 | | - | 22.46 | - | | |
| 5 | 1 | 0 | 256-QAM | - | 19.51 | - | 12.66 | 0.0185 |
| 5 | 1 | 12 | | - | 19.48 | - | | |
| 5 | 1 | 24 | | - | 19.51 | - | | |
| 3 | 1 | 0 | QPSK | - | 24.35 | - | 17.50 | 0.0562 |
| 3 | 1 | 8 | | - | 24.22 | - | | |
| 3 | 1 | 14 | | - | 24.32 | - | | |
| 3 | 8 | 0 | | - | 23.38 | - | | |
| 3 | 8 | 4 | | - | 23.27 | - | | |
| 3 | 8 | 7 | | - | 23.38 | - | | |
| 3 | 15 | 0 | | - | 23.29 | - | | |
| 3 | 1 | 0 | 16-QAM | - | 23.64 | - | 16.80 | 0.0479 |
| 3 | 1 | 8 | | - | 23.61 | - | | |
| 3 | 1 | 14 | | - | 23.65 | - | | |
| 3 | 1 | 0 | 64-QAM | - | 22.45 | - | 15.60 | 0.0363 |
| 3 | 1 | 8 | | - | 22.38 | - | | |
| 3 | 1 | 14 | | - | 22.40 | - | | |
| 3 | 1 | 0 | 256-QAM | - | 19.54 | - | 12.69 | 0.0186 |
| 3 | 1 | 8 | | - | 19.43 | - | | |
| 3 | 1 | 14 | | - | 19.51 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -4.7 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4 | 1 | 0 | QPSK | - | 24.40 | - | 17.55 | 0.0569 |
| 1.4 | 1 | 3 | | - | 24.31 | - | | |
| 1.4 | 1 | 5 | | - | 24.27 | - | | |
| 1.4 | 3 | 0 | | - | 24.24 | - | | |
| 1.4 | 3 | 1 | | - | 24.14 | - | | |
| 1.4 | 3 | 3 | | - | 24.31 | - | | |
| 1.4 | 6 | 0 | | - | 23.23 | - | | |
| 1.4 | 1 | 0 | 16-QAM | - | 23.61 | - | 16.76 | 0.0474 |
| 1.4 | 1 | 3 | | - | 23.49 | - | | |
| 1.4 | 1 | 5 | | - | 23.57 | - | | |
| 1.4 | 1 | 0 | 64-QAM | - | 22.50 | - | 15.68 | 0.0370 |
| 1.4 | 1 | 3 | | - | 22.53 | - | | |
| 1.4 | 1 | 5 | | - | 22.40 | - | | |
| 1.4 | 1 | 0 | 256-QAM | - | 19.53 | - | 12.73 | 0.0187 |
| 1.4 | 1 | 3 | | - | 19.55 | - | | |
| 1.4 | 1 | 5 | | - | 19.56 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

| LTE Band 30 Maximum Average Power [dBm] (GT - LC = -1 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | EIRP (dBm) | EIRP (W) |
| 10 | 1 | 0 | QPSK | - | 23.75 | - | 22.91 | 0.1954 |
| 10 | 1 | 25 | | - | 23.83 | - | | |
| 10 | 1 | 49 | | - | 23.91 | - | | |
| 10 | 25 | 0 | | - | 22.84 | - | | |
| 10 | 25 | 12 | | - | 22.79 | - | | |
| 10 | 25 | 25 | | - | 22.70 | - | | |
| 10 | 50 | 0 | | - | 22.69 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.15 | - | 22.26 | 0.1683 |
| 10 | 1 | 25 | | - | 23.25 | - | | |
| 10 | 1 | 49 | | - | 23.26 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 21.92 | - | 20.92 | 0.1236 |
| 10 | 1 | 25 | | - | 21.90 | - | | |
| 10 | 1 | 49 | | - | 21.90 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 18.96 | - | 17.96 | 0.0625 |
| 10 | 1 | 25 | | - | 18.87 | - | | |
| 10 | 1 | 49 | | - | 18.85 | - | | |
| 5 | 1 | 0 | QPSK | 23.71 | 23.88 | 23.79 | 22.88 | 0.1941 |
| 5 | 1 | 12 | | 23.81 | 23.79 | 23.76 | | |
| 5 | 1 | 24 | | 23.81 | 23.81 | 23.80 | | |
| 5 | 12 | 0 | | 22.70 | 22.82 | 22.82 | | |
| 5 | 12 | 7 | | 22.68 | 22.71 | 22.71 | | |
| 5 | 12 | 13 | | 22.74 | 22.70 | 22.71 | | |
| 5 | 25 | 0 | | 22.76 | 22.81 | 22.80 | | |
| 5 | 1 | 0 | 16-QAM | 23.12 | 23.33 | 23.35 | 22.35 | 0.1718 |
| 5 | 1 | 12 | | 23.08 | 23.12 | 23.20 | | |
| 5 | 25 | 0 | | 21.75 | 21.77 | 21.79 | | |
| 5 | 1 | 0 | 64-QAM | 21.94 | 22.09 | 22.08 | 21.09 | 0.1285 |
| 5 | 1 | 12 | | 21.92 | 21.96 | 22.03 | | |
| 5 | 25 | 0 | | 20.82 | 20.83 | 20.84 | | |
| 5 | 1 | 0 | 256-QAM | 18.96 | 19.01 | 18.94 | 18.01 | 0.0632 |
| 5 | 1 | 12 | | 18.80 | 18.81 | 18.82 | | |
| 5 | 25 | 0 | | 18.82 | 18.79 | 18.80 | | |
| Limit | EIRP < 250mW/5MHz | | | Result | | | Pass | |

Total EIRP power is less than partial EIRP limit 250 mW/5MHz.

<LTE B26 TX1 ANT1>

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15 | 1 | 0 | QPSK | 24.00 | - | - | 15.62 | 0.0365 |
| 15 | 1 | 37 | | 23.99 | - | - | | |
| 15 | 1 | 74 | | 24.07 | - | - | | |
| 15 | 36 | 0 | | 22.92 | - | - | | |
| 15 | 36 | 20 | | 22.88 | - | - | | |
| 15 | 36 | 39 | | 22.89 | - | - | | |
| 15 | 75 | 0 | | 22.94 | - | - | | |
| 15 | 1 | 0 | 16-QAM | 23.23 | - | - | 14.80 | 0.0302 |
| 15 | 1 | 37 | | 23.19 | - | - | | |
| 15 | 1 | 74 | | 23.25 | - | - | | |
| 15 | 1 | 0 | 64-QAM | 22.07 | - | - | 13.66 | 0.0232 |
| 15 | 1 | 37 | | 22.08 | - | - | | |
| 15 | 1 | 74 | | 22.11 | - | - | | |
| 15 | 1 | 0 | 256-QAM | 18.94 | - | - | 10.62 | 0.0115 |
| 15 | 1 | 37 | | 18.97 | - | - | | |
| 15 | 1 | 74 | | 19.07 | - | - | | |
| 10 | 1 | 0 | QPSK | - | 24.06 | - | 15.81 | 0.0381 |
| 10 | 1 | 25 | | - | 24.13 | - | | |
| 10 | 1 | 49 | | - | 24.26 | - | | |
| 10 | 25 | 0 | | - | 23.10 | - | | |
| 10 | 25 | 12 | | - | 23.10 | - | | |
| 10 | 25 | 25 | | - | 23.18 | - | | |
| 10 | 50 | 0 | | - | 23.08 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.26 | - | 15.08 | 0.0322 |
| 10 | 1 | 25 | | - | 23.40 | - | | |
| 10 | 1 | 49 | | - | 23.53 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.15 | - | 13.91 | 0.0246 |
| 10 | 1 | 25 | | - | 22.24 | - | | |
| 10 | 1 | 49 | | - | 22.36 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 19.08 | - | 10.85 | 0.0122 |
| 10 | 1 | 25 | | - | 19.21 | - | | |
| 10 | 1 | 49 | | - | 19.30 | - | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5 | 1 | 0 | QPSK | 23.94 | 24.04 | 23.86 | 15.59 | 0.0362 |
| 5 | 1 | 12 | | 23.95 | 23.89 | 23.89 | | |
| 5 | 1 | 24 | | 23.95 | 23.93 | 23.86 | | |
| 5 | 12 | 0 | | 22.92 | 23.00 | 22.95 | | |
| 5 | 12 | 7 | | 22.86 | 22.94 | 22.82 | | |
| 5 | 12 | 13 | | 22.91 | 23.00 | 22.92 | | |
| 5 | 25 | 0 | | 22.95 | 22.91 | 22.98 | | |
| 5 | 1 | 0 | 16-QAM | 23.19 | 23.26 | 23.22 | 14.86 | 0.0306 |
| 5 | 1 | 12 | | 23.20 | 23.15 | 23.16 | | |
| 5 | 1 | 24 | | 23.24 | 23.31 | 23.17 | | |
| 5 | 1 | 0 | 64-QAM | 22.05 | 21.98 | 21.95 | 13.66 | 0.0232 |
| 5 | 1 | 12 | | 22.09 | 22.10 | 22.11 | | |
| 5 | 1 | 24 | | 22.11 | 22.10 | 22.02 | | |
| 5 | 1 | 0 | 256-QAM | 18.96 | 18.87 | 18.93 | 10.55 | 0.0114 |
| 5 | 1 | 12 | | 18.93 | 18.85 | 18.97 | | |
| 5 | 1 | 24 | | 19.00 | 18.95 | 18.90 | | |
| 3 | 1 | 0 | QPSK | 23.89 | 23.94 | 23.82 | 15.60 | 0.0363 |
| 3 | 1 | 8 | | 23.88 | 23.92 | 23.91 | | |
| 3 | 1 | 14 | | 23.97 | 24.05 | 24.04 | | |
| 3 | 8 | 0 | | 22.91 | 22.89 | 22.87 | | |
| 3 | 8 | 4 | | 22.88 | 22.78 | 22.98 | | |
| 3 | 8 | 7 | | 22.91 | 22.97 | 22.83 | | |
| 3 | 15 | 0 | | 22.90 | 22.93 | 22.81 | | |
| 3 | 1 | 0 | 16-QAM | 23.15 | 23.12 | 23.14 | 14.78 | 0.0301 |
| 3 | 1 | 8 | | 23.14 | 23.17 | 23.23 | | |
| 3 | 1 | 14 | | 23.14 | 23.12 | 23.04 | | |
| 3 | 1 | 0 | 64-QAM | 22.01 | 21.92 | 22.04 | 13.61 | 0.0230 |
| 3 | 1 | 8 | | 22.01 | 21.93 | 22.06 | | |
| 3 | 1 | 14 | | 22.02 | 21.97 | 21.94 | | |
| 3 | 1 | 0 | 256-QAM | 18.91 | 18.82 | 18.96 | 10.62 | 0.0115 |
| 3 | 1 | 8 | | 18.94 | 18.97 | 18.99 | | |
| 3 | 1 | 14 | | 19.00 | 18.94 | 19.07 | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| Part90S LTE Band 26 Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4 | 1 | 0 | QPSK | 23.85 | 23.80 | 23.83 | 15.47 | 0.0352 |
| 1.4 | 1 | 3 | | 23.85 | 23.86 | 23.92 | | |
| 1.4 | 1 | 5 | | 23.91 | 23.84 | 23.90 | | |
| 1.4 | 3 | 0 | | 23.77 | 23.84 | 23.87 | | |
| 1.4 | 3 | 1 | | 23.77 | 23.73 | 23.79 | | |
| 1.4 | 3 | 3 | | 23.80 | 23.90 | 23.70 | | |
| 1.4 | 6 | 0 | | 22.83 | 22.92 | 22.87 | | |
| 1.4 | 1 | 0 | 16-QAM | 23.00 | 22.94 | 23.02 | 14.66 | 0.0292 |
| 1.4 | 1 | 3 | | 23.02 | 22.95 | 23.00 | | |
| 1.4 | 1 | 5 | | 23.07 | 23.02 | 23.11 | | |
| 1.4 | 1 | 0 | 64-QAM | 22.06 | 21.97 | 22.08 | 13.64 | 0.0231 |
| 1.4 | 1 | 3 | | 21.98 | 21.98 | 22.03 | | |
| 1.4 | 1 | 5 | | 22.01 | 22.09 | 22.07 | | |
| 1.4 | 1 | 0 | 256-QAM | 18.83 | 18.83 | 18.79 | 10.51 | 0.0112 |
| 1.4 | 1 | 3 | | 18.85 | 18.75 | 18.92 | | |
| 1.4 | 1 | 5 | | 18.89 | 18.79 | 18.83 | | |
| Limit | ERP < 100W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 15 | 1 | 0 | QPSK | - | 24.04 | - | 15.59 | 0.0362 |
| 15 | 1 | 37 | | - | 23.97 | - | | |
| 15 | 1 | 74 | | - | 23.98 | - | | |
| 15 | 36 | 0 | | - | 22.90 | - | | |
| 15 | 36 | 20 | | - | 22.87 | - | | |
| 15 | 36 | 39 | | - | 22.79 | - | | |
| 15 | 75 | 0 | | - | 23.00 | - | | |
| 15 | 1 | 0 | 16-QAM | - | 23.22 | - | 14.86 | 0.0306 |
| 15 | 1 | 37 | | - | 23.22 | - | | |
| 15 | 1 | 74 | | - | 23.31 | - | | |
| 15 | 1 | 0 | 64-QAM | - | 22.11 | - | 13.66 | 0.0232 |
| 15 | 1 | 37 | | - | 22.10 | - | | |
| 15 | 1 | 74 | | - | 22.07 | - | | |
| 15 | 1 | 0 | 256-QAM | - | 18.85 | - | 10.61 | 0.0115 |
| 15 | 1 | 37 | | - | 19.06 | - | | |
| 15 | 1 | 74 | | - | 19.05 | - | | |
| 10 | 1 | 0 | QPSK | - | 24.04 | - | 15.59 | 0.0362 |
| 10 | 1 | 25 | | - | 23.97 | - | | |
| 10 | 1 | 49 | | - | 24.00 | - | | |
| 10 | 25 | 0 | | - | 22.93 | - | | |
| 10 | 25 | 12 | | - | 22.94 | - | | |
| 10 | 25 | 25 | | - | 22.99 | - | | |
| 10 | 50 | 0 | | - | 22.96 | - | | |
| 10 | 1 | 0 | 16-QAM | - | 23.30 | - | 14.89 | 0.0308 |
| 10 | 1 | 25 | | - | 23.22 | - | | |
| 10 | 1 | 49 | | - | 23.34 | - | | |
| 10 | 1 | 0 | 64-QAM | - | 22.12 | - | 13.67 | 0.0233 |
| 10 | 1 | 25 | | - | 22.01 | - | | |
| 10 | 1 | 49 | | - | 22.06 | - | | |
| 10 | 1 | 0 | 256-QAM | - | 18.90 | - | 10.66 | 0.0116 |
| 10 | 1 | 25 | | - | 19.10 | - | | |
| 10 | 1 | 49 | | - | 19.11 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 5 | 1 | 0 | QPSK | - | 23.85 | - | 15.58 | 0.0361 |
| 5 | 1 | 12 | | - | 24.03 | - | | |
| 5 | 1 | 24 | | - | 23.96 | - | | |
| 5 | 12 | 0 | | - | 23.00 | - | | |
| 5 | 12 | 7 | | - | 22.87 | - | | |
| 5 | 12 | 13 | | - | 22.90 | - | | |
| 5 | 25 | 0 | | - | 22.85 | - | | |
| 5 | 1 | 0 | 16-QAM | - | 23.15 | - | 14.81 | 0.0303 |
| 5 | 1 | 12 | | - | 23.26 | - | | |
| 5 | 1 | 24 | | - | 23.23 | - | | |
| 5 | 1 | 0 | 64-QAM | - | 22.01 | - | 13.68 | 0.0233 |
| 5 | 1 | 12 | | - | 22.02 | - | | |
| 5 | 1 | 24 | | - | 22.13 | - | | |
| 5 | 1 | 0 | 256-QAM | - | 18.88 | - | 10.58 | 0.0114 |
| 5 | 1 | 12 | | - | 19.03 | - | | |
| 5 | 1 | 24 | | - | 18.96 | - | | |
| 3 | 1 | 0 | QPSK | - | 23.85 | - | 15.60 | 0.0363 |
| 3 | 1 | 8 | | - | 23.80 | - | | |
| 3 | 1 | 14 | | - | 24.05 | - | | |
| 3 | 8 | 0 | | - | 22.86 | - | | |
| 3 | 8 | 4 | | - | 22.86 | - | | |
| 3 | 8 | 7 | | - | 22.93 | - | | |
| 3 | 15 | 0 | | - | 22.91 | - | | |
| 3 | 1 | 0 | 16-QAM | - | 23.22 | - | 14.77 | 0.0300 |
| 3 | 1 | 8 | | - | 23.07 | - | | |
| 3 | 1 | 14 | | - | 23.06 | - | | |
| 3 | 1 | 0 | 64-QAM | - | 22.08 | - | 13.63 | 0.0231 |
| 3 | 1 | 8 | | - | 21.91 | - | | |
| 3 | 1 | 14 | | - | 21.94 | - | | |
| 3 | 1 | 0 | 256-QAM | - | 18.98 | - | 10.58 | 0.0114 |
| 3 | 1 | 8 | | - | 18.85 | - | | |
| 3 | 1 | 14 | | - | 19.03 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

| LTE Band 26 Straddle Maximum Average Power [dBm] (GT - LC = -6.3 dB) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | ERP (dBm) | ERP (W) |
| 1.4 | 1 | 0 | QPSK | - | 23.87 | - | 15.44 | 0.0350 |
| 1.4 | 1 | 3 | | - | 23.88 | - | | |
| 1.4 | 1 | 5 | | - | 23.89 | - | | |
| 1.4 | 3 | 0 | | - | 23.74 | - | | |
| 1.4 | 3 | 1 | | - | 23.68 | - | | |
| 1.4 | 3 | 3 | | - | 23.88 | - | | |
| 1.4 | 6 | 0 | | - | 22.92 | - | | |
| 1.4 | 1 | 0 | 16-QAM | - | 23.05 | - | 14.60 | 0.0288 |
| 1.4 | 1 | 3 | | - | 22.92 | - | | |
| 1.4 | 1 | 5 | | - | 23.01 | - | | |
| 1.4 | 1 | 0 | 64-QAM | - | 22.16 | - | 13.71 | 0.0235 |
| 1.4 | 1 | 3 | | - | 21.92 | - | | |
| 1.4 | 1 | 5 | | - | 22.08 | - | | |
| 1.4 | 1 | 0 | 256-QAM | - | 18.80 | - | 10.46 | 0.0111 |
| 1.4 | 1 | 3 | | - | 18.79 | - | | |
| 1.4 | 1 | 5 | | - | 18.87 | - | | |
| Limit | ERP < 7W | | | Result | | | Pass | |

## 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 + 10log10(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.

90.543(e)

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

### 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.

## 3.6 Emission Mask

### 3.6.1 Description of Emissions Mask Measurement

For LTE Band 14

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

For LTE Band 26

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

### 3.6.2 Test Procedures

For LTE Band 14

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For LTE Band 26

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

## 3.7 Conducted Spurious Emission

### 3.7.1 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.

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

### 3.7.2 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 conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GH, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

## 3.8 Frequency Stability

### 3.8.1 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.

90.593

Transmitters designed to operate in 769-775 MHz and 799-805 MHz frequency bands must meet the frequency stability requirements in this section.

The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station.

### 3.8.2 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.

### 3.8.3 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.

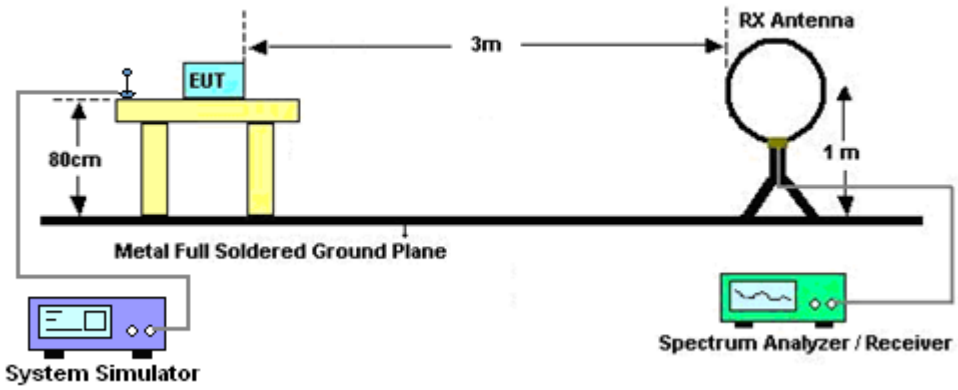
# 4 Radiated Test Items

## 4.1 Measuring Instruments

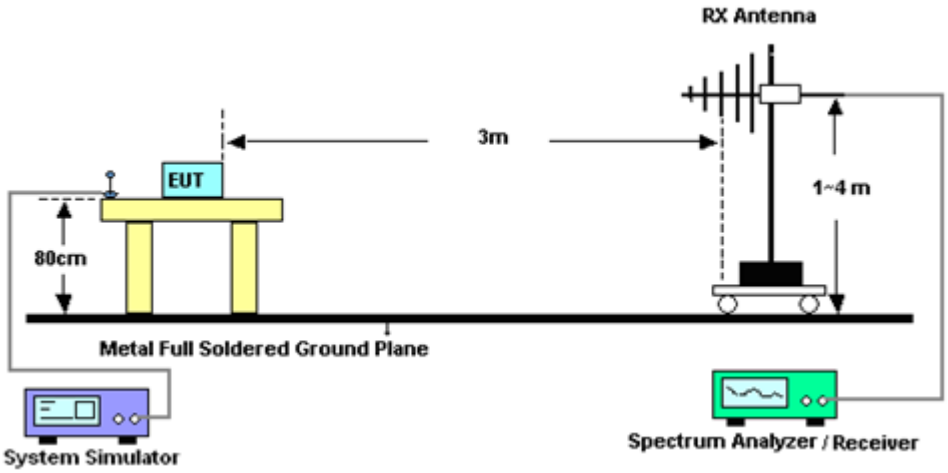
See list of measuring instruments of this test report.

### 4.1.1 Test Setup

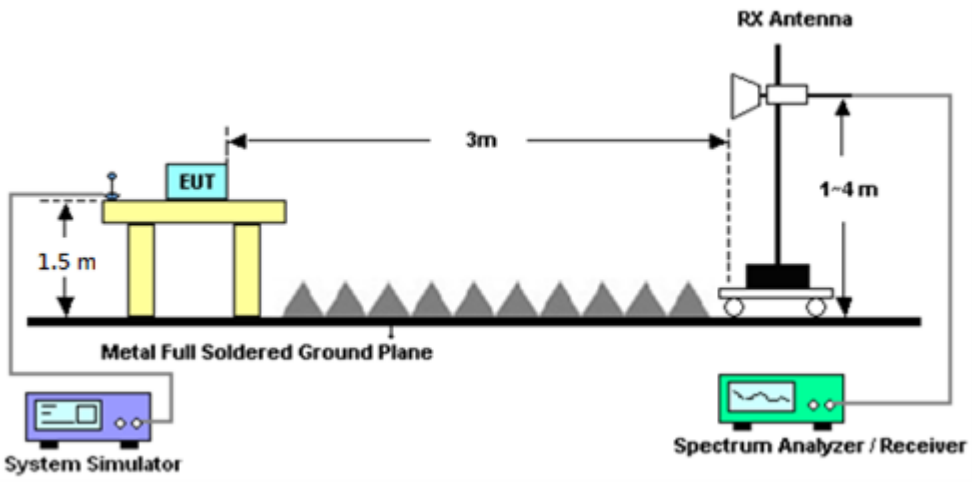
**For radiated test below 30MHz**



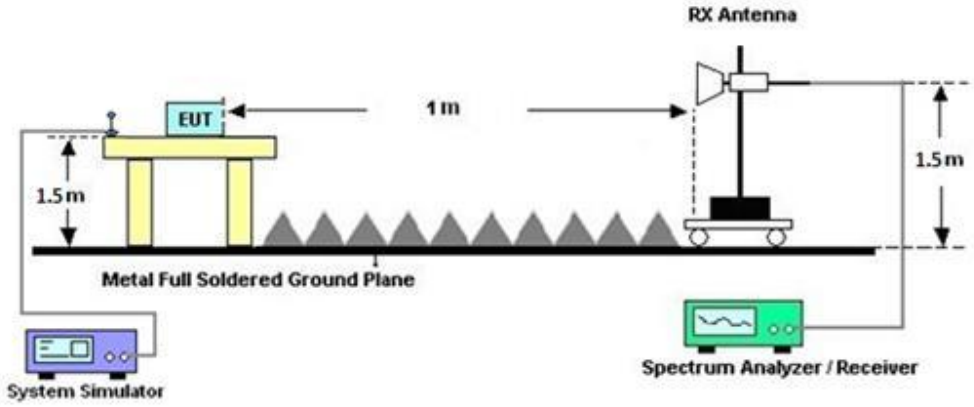

**For radiated test from 30MHz to 1GHz**



**For radiated test from 1GHz to 18GHz**




**For radiated test above 18GHz**




## 4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

## 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 C63.26-2015. 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 LTE Band 14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

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.

1. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
2. The table was rotated 360 degrees to determine the position of the highest spurious emission.
3. 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.
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
6. EIRP(dBm) = Level (dBuV/m) + 20log(d) -104.77, where d is the distance at which filed strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

# 5 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| EMI Test Receiver | Keysight | N9038B | MY62210111 | N/A | Aug. 29, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Aug. 28, 2026 | Radiation (03CH20-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2E | 101108 | 9 kHz~30 MHz | Dec. 18, 2024 | Dec. 05, 2025~ Dec. 10, 2025 | Dec. 17, 2025 | Radiation (03CH20-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2E | 101108 | 9 kHz~30 MHz | Dec. 11, 2025 | Dec. 11, 2025~ Mar. 24, 2026 | Dec. 10, 2026 | Radiation (03CH20-HY) |
| Preamplifier | EMEC | EM18G40G | 060801 | 18GHz~40GHz | May. 26, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | May. 25, 2026 | Radiation (03CH20-HY) |
| Preamplifier | EMEC | EM18G40G | 060871 | 18GHz~40GHz | Aug. 25, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Aug. 24, 2026 | Radiation (03CH20-HY) |
| Controller | ChainTek | 3000-1 | N/A | Control Turn table & Ant Mast | N/A | Dec. 05, 2025~ Mar. 24, 2026 | N/A | Radiation (03CH20-HY) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Dec. 05, 2025~ Mar. 24, 2026 | N/A | Radiation (03CH20-HY) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Dec. 05, 2025~ Mar. 24, 2026 | N/A | Radiation (03CH20-HY) |
| Signal Analyzer | Keysight | N9010B | MY54200485 | N/A | Aug. 27, 2025 | Dec. 05, 2025~ Dec. 09, 2026 | Aug. 26, 2026 | Radiation (03CH20-HY) |
| Signal Analyzer | Keysight | N9010B | MY60240520 | N/A | Dec. 10, 2025 | Dec. 10, 2025~ Mar. 24, 2026 | Dec. 09, 2026 | Radiation (03CH20-HY) |
| Bilog Antenna | TESEQ | CBL 6111D&00800N1D01N-06 | 55606 & 08 | 30MHz~1GHz | Nov. 26, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Nov. 25, 2026 | Radiation (03CH20-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 02360 | 1GHz-18GHz | Nov. 05, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Nov. 04, 2026 | Radiation (03CH20-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | 1223 | 18GHz-40GHz | Jul. 02, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Jul. 01, 2026 | Radiation (03CH20-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | 1224 | 18GHz-40GHz | Jul. 02, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Jul. 01, 2026 | Radiation (03CH20-HY) |
| Preamplifier | COM-POWER | PAM-103 | 18020201 | 1MHz-1000MHz | Dec. 31, 2024 | Dec. 05, 2025~ Dec. 29, 2025 | Dec. 30, 2025 | Radiation (03CH20-HY) |
| Preamplifier | COM-POWER | PAM-103 | 18020201 | 1MHz-1000MHz | Dec. 30, 2025 | Dec. 30, 2025~ Mar. 24, 2026 | Dec. 29, 2026 | Radiation (03CH20-HY) |
| Amplifier | EMCI | EMC118A45SE | 980792 | N/A | Nov. 11, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Nov. 10, 2026 | Radiation (03CH20-HY) |

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | 1223 | 18GHz-40GHz | Jul. 02, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Jul. 01, 2026 | Radiation (03CH20-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | 1224 | 18GHz-40GHz | Jul. 02, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Jul. 01, 2026 | Radiation (03CH20-HY) |
| Preamplifier | COM-POWER | PAM-103 | 18020201 | 1MHz-1000MHz | Dec. 31, 2024 | Dec. 05, 2025~ Dec. 29, 2025 | Dec. 30, 2025 | Radiation (03CH20-HY) |
| Preamplifier | COM-POWER | PAM-103 | 18020201 | 1MHz-1000MHz | Dec. 30, 2025 | Dec. 30, 2025~ Mar. 24, 2026 | Dec. 29, 2026 | Radiation (03CH20-HY) |
| Amplifier | EMCI | EMC118A45SE | 980792 | N/A | Nov. 11, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Nov. 10, 2026 | Radiation (03CH20-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 519229/2,804015/2,804027/2 | N/A | Jan. 16, 2025 | Dec. 05, 2025~ Jan. 14, 2026 | Jan. 15, 2026 | Radiation (03CH20-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 519229/2,804015/2,804027/2 | N/A | Jan. 15, 2026 | Jan. 15, 2025~ Mar. 24, 2026 | Jan. 14, 2027 | Radiation (03CH20-HY) |
| Hygrometer | TECPEL | DTM-303A | TP211568 | N/A | Oct. 21, 2025 | Dec. 05, 2025~ Mar. 24, 2026 | Oct. 20, 2026 | Radiation (03CH20-HY) |
| Software | Audix | N/A | RK-002156 | N/A | N/A | Dec. 05, 2025~ Mar. 24, 2026 | N/A | Radiation (03CH20-HY) |

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Radio Communication Analyzer | Anritsu | MT8821C | 6262025341 | LTE FDD/TDD LTE-2CC ULCA/DLCA | Sep. 16, 2025 | Nov. 18, 2025~ May. 27, 2026 | Sep. 15, 2026 | Conducted (TH05-HY) |
| DC Power Supply | GW Instek | GPE-2323 | GET861546 | 0V~64V ; 0A~6A | Jun. 03, 2025 | Nov. 18, 2025~ May. 27, 2026 | Jun. 02, 2026 | Conducted (TH05-HY) |
| Coupler | MVE | MVE4816 | #Z | 0.009MHz-18GHz | Oct. 16, 2025 | Nov. 18, 2025~ May. 27, 2026 | Oct. 15, 2026 | Conducted (TH05-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101907 | 10Hz~40GHz | Aug. 25, 2025 | Nov. 18, 2025~ May. 27, 2026 | Aug. 24, 2026 | Conducted (TH05-HY) |
| Thermal Chamber | ESPEC | SU-241 | 92003713 | -30℃ ~95℃ | May. 12, 2025 | Nov. 18, 2025~ Feb. 10, 2026 | May. 11, 2026 | Conducted (TH05-HY) |
| Power divider | Anritsu | K241C | 2143398 | 9KHz~40GHz | Jun. 13,2025 | Nov. 18, 2025~ May. 27, 2026 | Jun. 12,2026 | Conducted (TH05-HY) |
| Software | Sporton | LTE Conducted Test Tools | N/A | Conducted Test Item | N/A | Nov. 18, 2025~ May. 27, 2026 | N/A | Conducted (TH05-HY) |
| Hygrometer | TECPEL | DTM-303B | TP200886 | -10 ~ 50°C / 20 ~ 95%RH | Mar. 03,2025 | Nov. 18, 2025~ Feb. 10, 2026 | Mar. 02,2026 | Conducted (TH05-HY) |
| Hygrometer | TECPEL | DTM-303B | TP200886 | -10 ~ 50°C / 20 ~ 95%RH | Mar. 04,2026 | May. 25, 2026~ May. 27, 2026 | Mar. 03,2027 | Conducted (TH05-HY) |

# 6 Measurement Uncertainty

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

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 6.50 dB |

**Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.70 dB |

**Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)**

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.70 dB |

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

| | |
|---|---|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.20 dB |

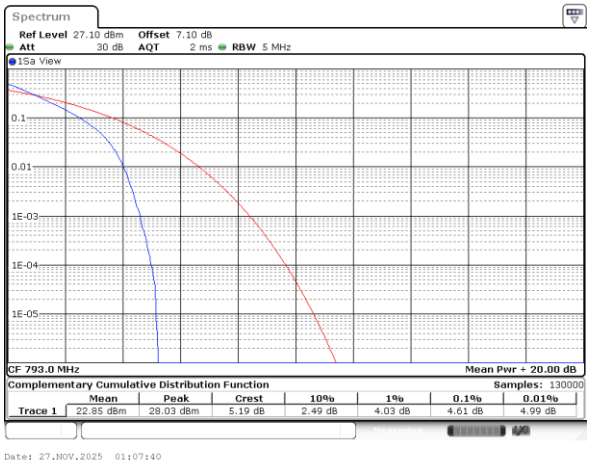
# LTE Band 14

## Peak-to-Average Ratio

| Mode | LTE Band 14 / 5MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 4.61 | 5.33 | 5.97 | 6.55 | PASS |
| Mode | LTE Band 14 / 10MHz | | | | |
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 4.52 | 5.33 | 6.00 | 6.64 | PASS |

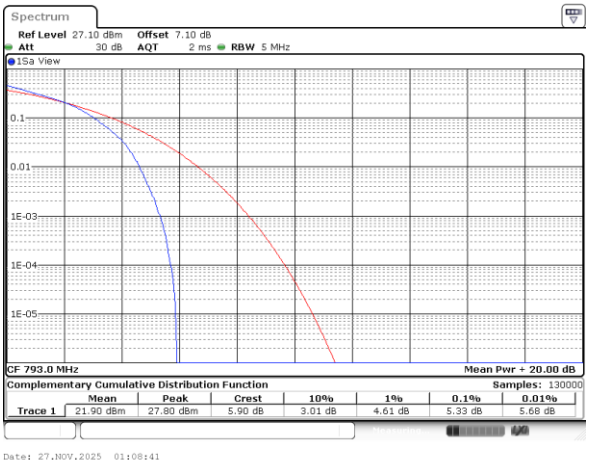
**LTE Band 14 / 5MHz / QPSK**

**Middle Channel / Full RB**



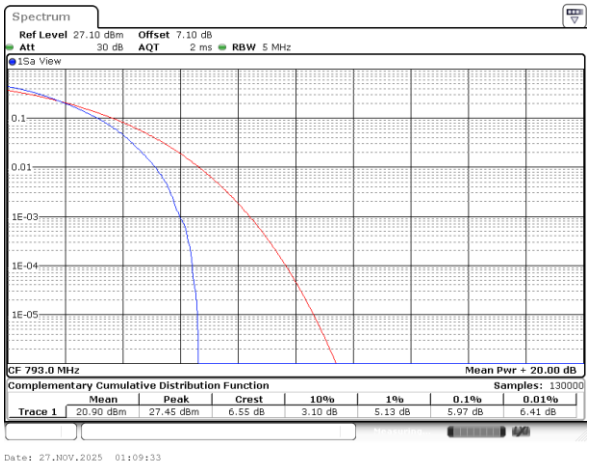

**LTE Band 14 / 5MHz / 16QAM**

**Middle Channel / Full RB**



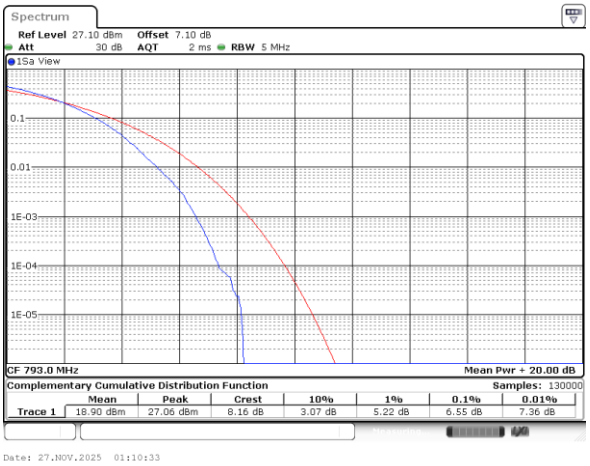

**LTE Band 14 / 5MHz / 64QAM**

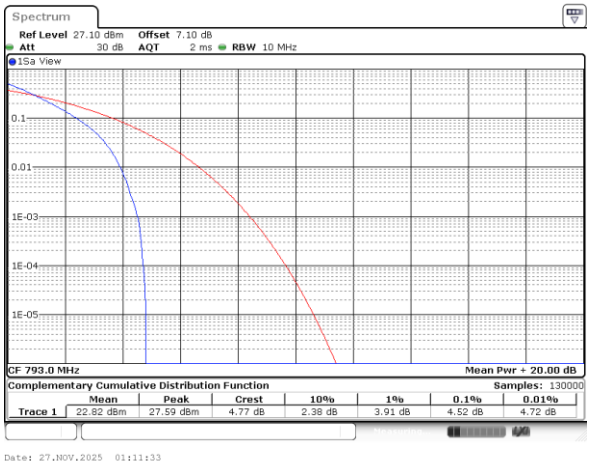
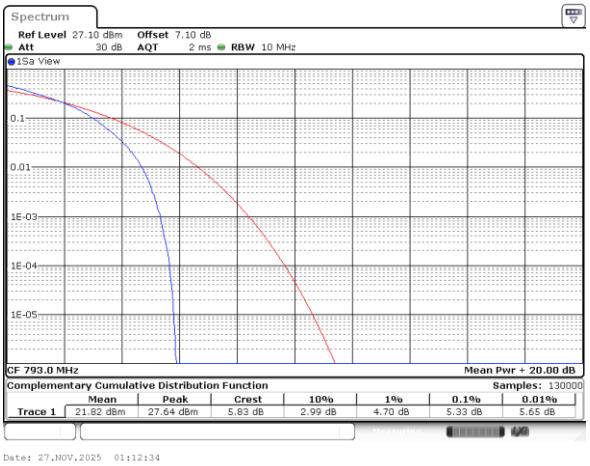
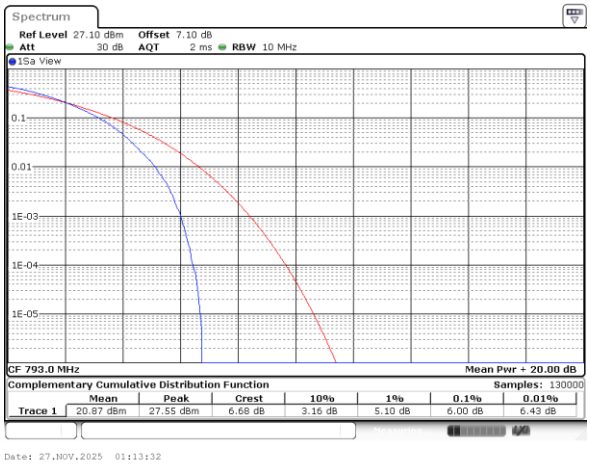
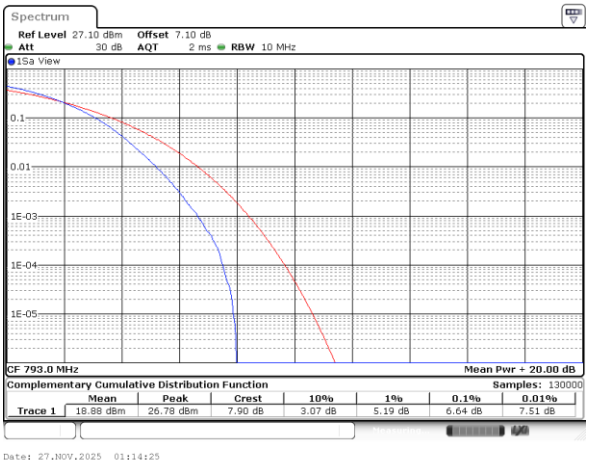
**Middle Channel / Full RB**




**LTE Band 14 / 5MHz / 256QAM**

**Middle Channel / Full RB**



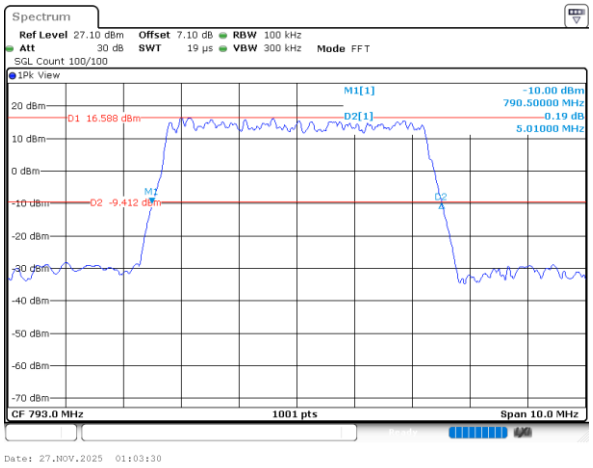
| LTE Band 14 / 10MHz / QPSK | LTE Band 14 / 10MHz / 16QAM |
|---|---|
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |
| LTE Band 14 / 10MHz / 64QAM | LTE Band 14 / 10MHz / 256QAM |
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |

# 26dB Bandwidth

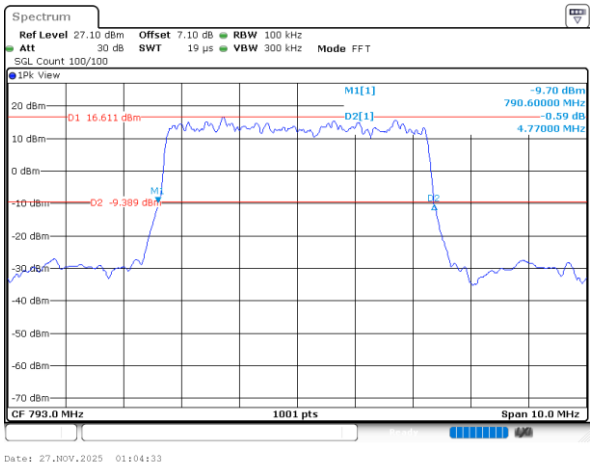
| Mode | LTE Band 14 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | - | - | - | - | 5.01 | 4.77 | 9.78 | 9.86 | - | - | - | - |

**LTE Band 14**

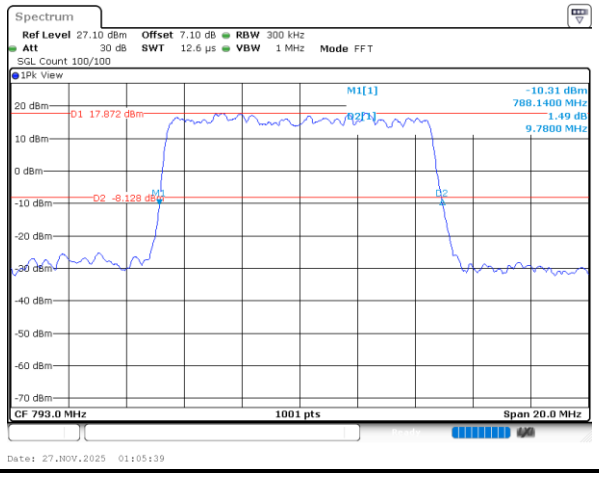
**Middle Channel / 5MHz / QPSK**



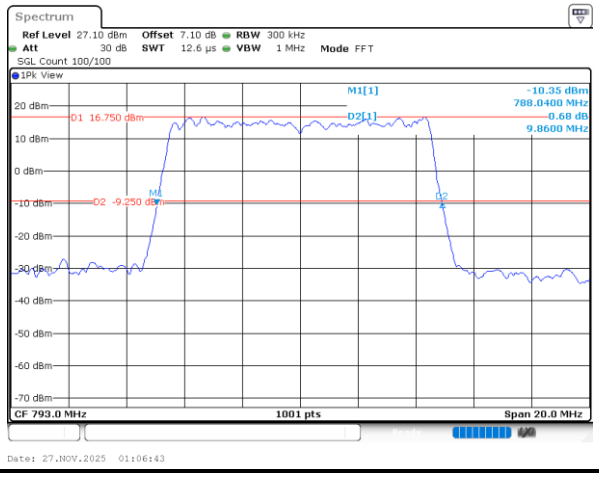

**Middle Channel / 5MHz / 16QAM**




**Middle Channel / 10MHz / QPSK**




**Middle Channel / 10MHz / 16QAM**

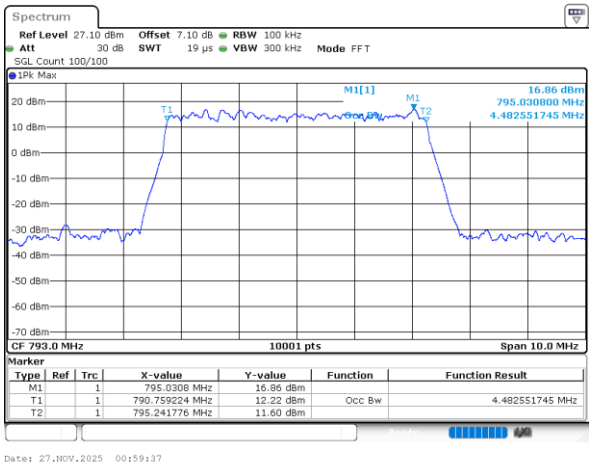


# Occupied Bandwidth

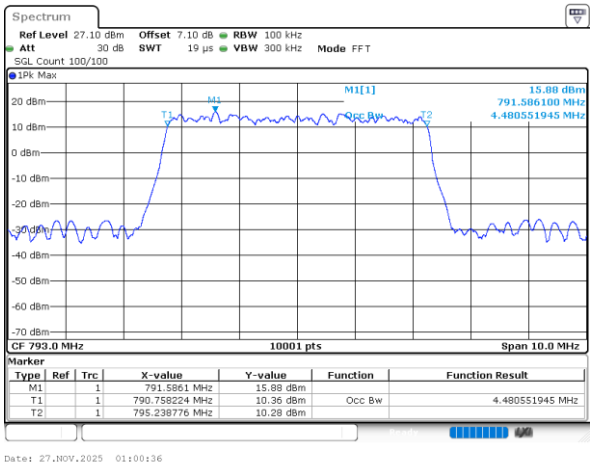
| Mode | LTE Band 14 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Middle CH | - | - | - | - | 4.48 | 4.48 | 9.00 | 9.05 | - | - | - | - |

## LTE Band 14

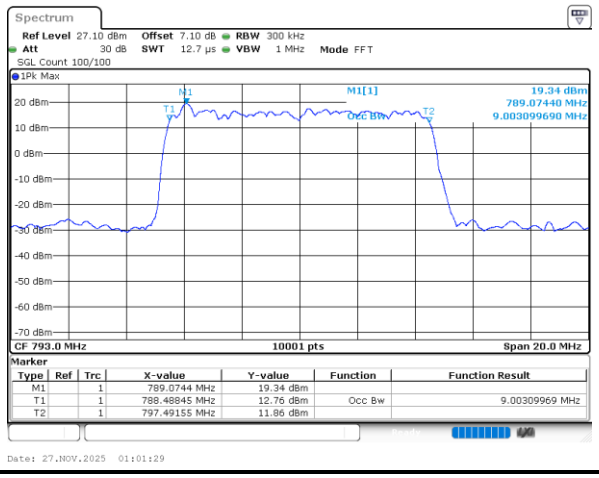
### Middle Channel / 5MHz / QPSK



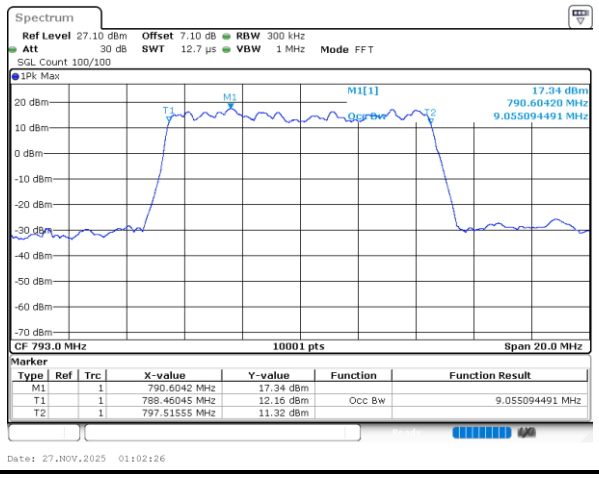

### Middle Channel / 5MHz / 16QAM




### Middle Channel / 10MHz / QPSK



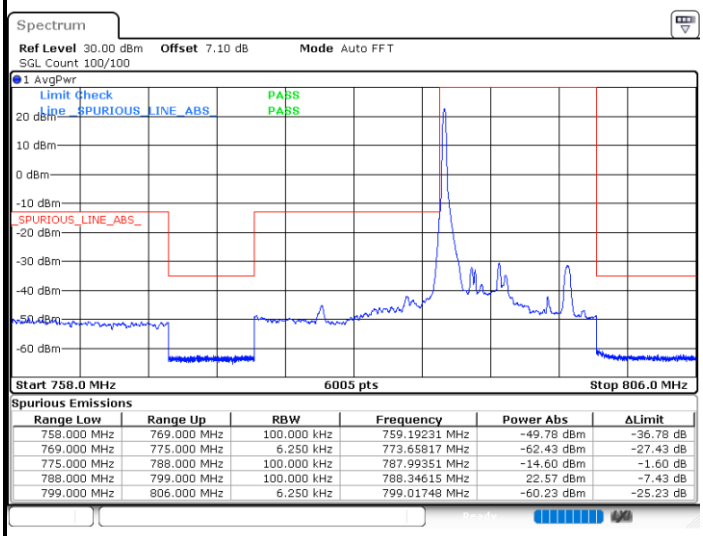

### Middle Channel / 10MHz / 16QAM



# Conducted Band Edge

## LTE Band 14 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

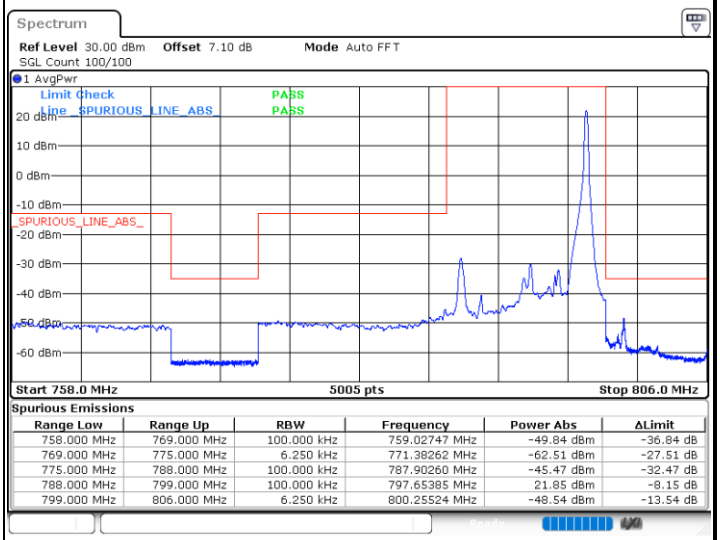



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 758.000 MHz | 769.000 MHz | 100.000 kHz | 759.19231 MHz | -49.78 dBm | -36.78 dB |
| 769.000 MHz | 775.000 MHz | 6.250 kHz | 773.65817 MHz | -62.43 dBm | -27.43 dB |
| 775.000 MHz | 788.000 MHz | 100.000 kHz | 787.99351 MHz | -14.60 dBm | -1.60 dB |
| 788.000 MHz | 799.000 MHz | 100.000 kHz | 788.34615 MHz | 22.57 dBm | -7.43 dB |
| 799.000 MHz | 806.000 MHz | 6.250 kHz | 799.01748 MHz | -60.23 dBm | -25.23 dB |

Date: 27.NOV.2025 15:19:17

### Highest Band Edge / 1 RB

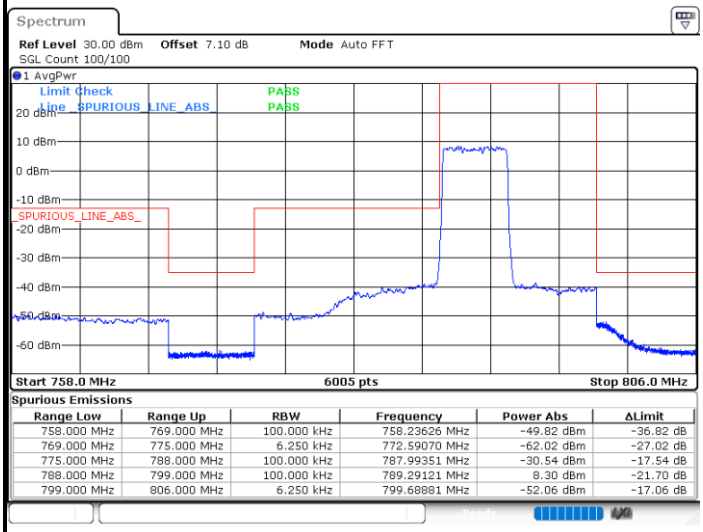



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 758.000 MHz | 769.000 MHz | 100.000 kHz | 759.02747 MHz | -49.84 dBm | -36.84 dB |
| 769.000 MHz | 775.000 MHz | 6.250 kHz | 771.38262 MHz | -62.51 dBm | -27.51 dB |
| 775.000 MHz | 788.000 MHz | 100.000 kHz | 787.90260 MHz | -45.47 dBm | -32.47 dB |
| 788.000 MHz | 799.000 MHz | 100.000 kHz | 797.65385 MHz | 21.85 dBm | -8.15 dB |
| 799.000 MHz | 806.000 MHz | 6.250 kHz | 800.25524 MHz | -48.54 dBm | -13.54 dB |

Date: 27.NOV.2025 01:20:48

### Lowest Band Edge / Full RB

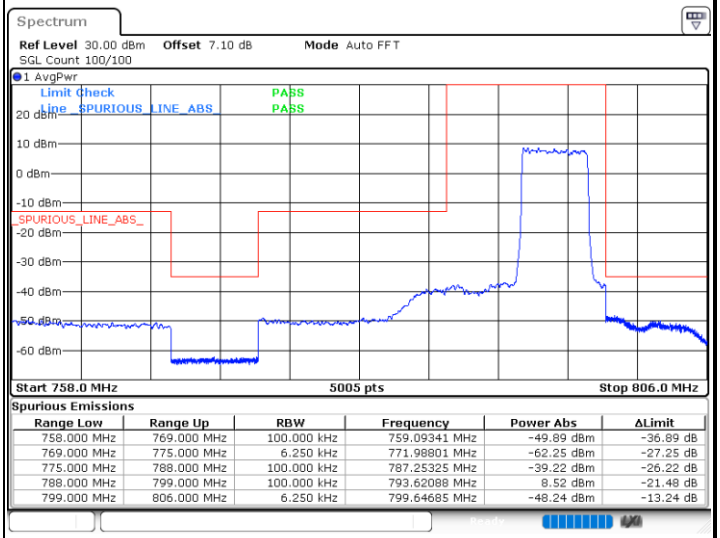



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 758.000 MHz | 769.000 MHz | 100.000 kHz | 758.23626 MHz | -49.82 dBm | -36.82 dB |
| 769.000 MHz | 775.000 MHz | 6.250 kHz | 772.59070 MHz | -62.02 dBm | -27.02 dB |
| 775.000 MHz | 788.000 MHz | 100.000 kHz | 787.99351 MHz | -30.54 dBm | -17.54 dB |
| 788.000 MHz | 799.000 MHz | 100.000 kHz | 789.29121 MHz | 8.30 dBm | -21.70 dB |
| 799.000 MHz | 806.000 MHz | 6.250 kHz | 799.68881 MHz | -52.06 dBm | -17.06 dB |

Date: 27.NOV.2025 01:16:02

### Highest Band Edge / Full RB



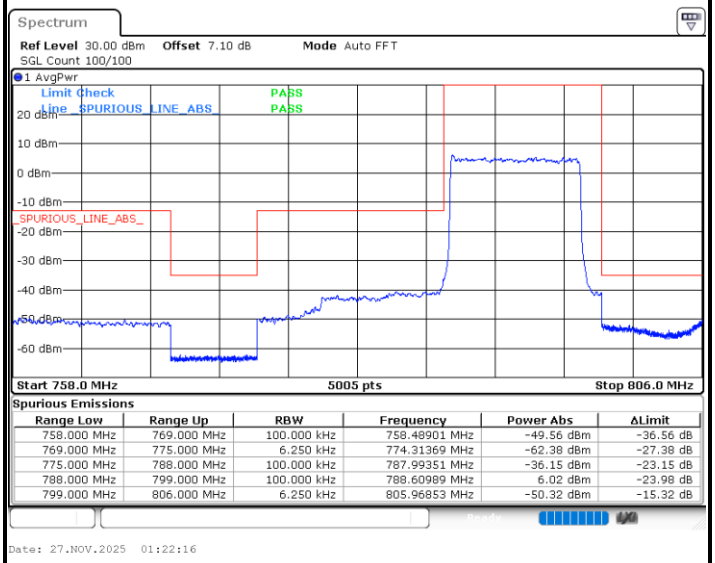

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 758.000 MHz | 769.000 MHz | 100.000 kHz | 759.09341 MHz | -49.89 dBm | -36.89 dB |
| 769.000 MHz | 775.000 MHz | 6.250 kHz | 771.98801 MHz | -62.25 dBm | -27.25 dB |
| 775.000 MHz | 788.000 MHz | 100.000 kHz | 787.25325 MHz | -39.22 dBm | -26.22 dB |
| 788.000 MHz | 799.000 MHz | 100.000 kHz | 793.62088 MHz | 8.52 dBm | -21.48 dB |
| 799.000 MHz | 806.000 MHz | 6.250 kHz | 799.64685 MHz | -48.24 dBm | -13.24 dB |

Date: 27.NOV.2025 01:19:09

## LTE Band 14 / 10MHz / QPSK

## Band Edge / Full RB



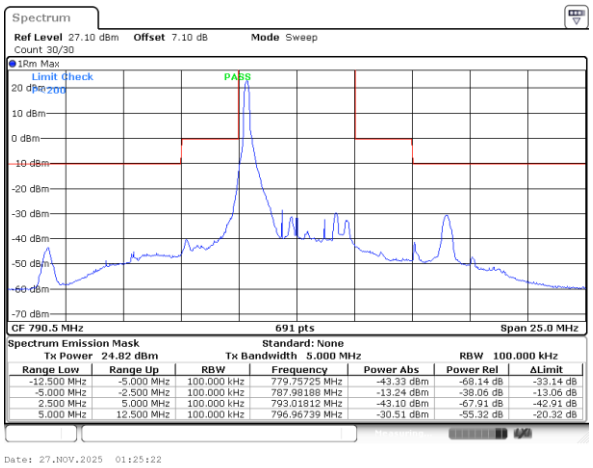

Spurious Emissions

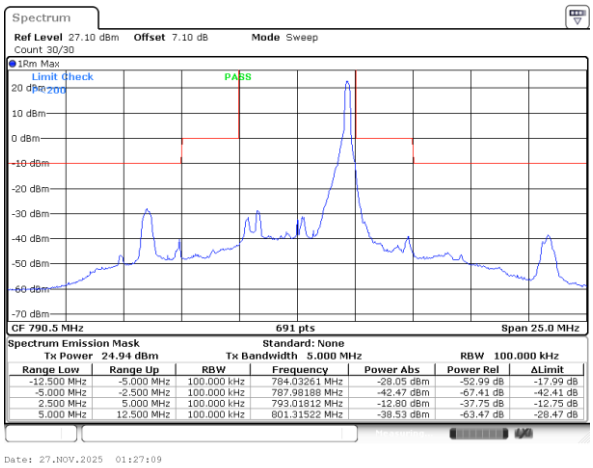
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 758.000 MHz | 769.000 MHz | 100.000 kHz | 758.48901 MHz | -49.56 dBm | -36.56 dB |
| 769.000 MHz | 775.000 MHz | 6.250 kHz | 774.31369 MHz | -62.38 dBm | -27.38 dB |
| 775.000 MHz | 788.000 MHz | 100.000 kHz | 787.99351 MHz | -36.15 dBm | -23.15 dB |
| 788.000 MHz | 799.000 MHz | 100.000 kHz | 788.60989 MHz | 6.02 dBm | -23.98 dB |
| 799.000 MHz | 806.000 MHz | 6.250 kHz | 805.96853 MHz | -50.32 dBm | -15.32 dB |

# Mask

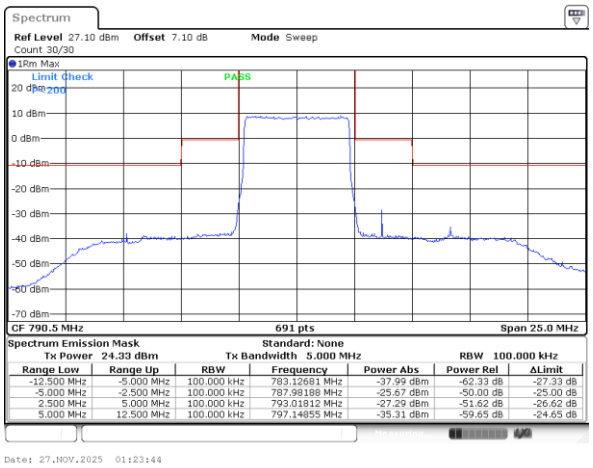
## LTE Band 14 / 5MHz / QPSK

### Lowest Channel / 1RB



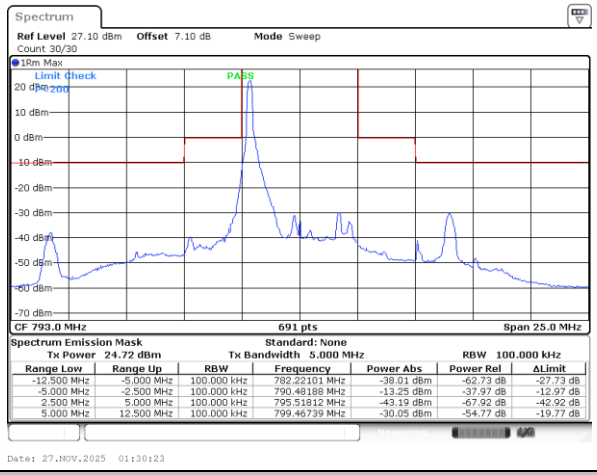



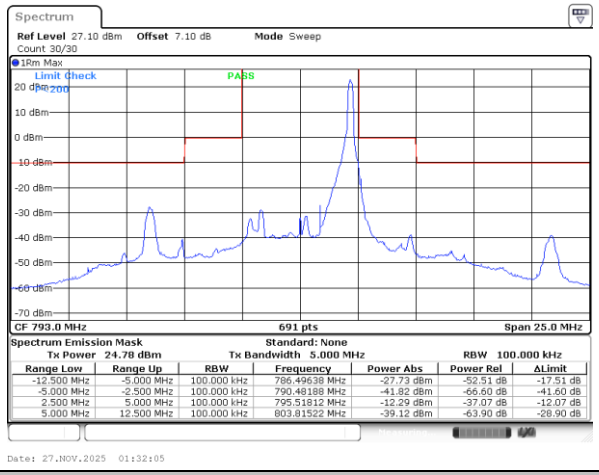

### Lowest Channel / Full RB



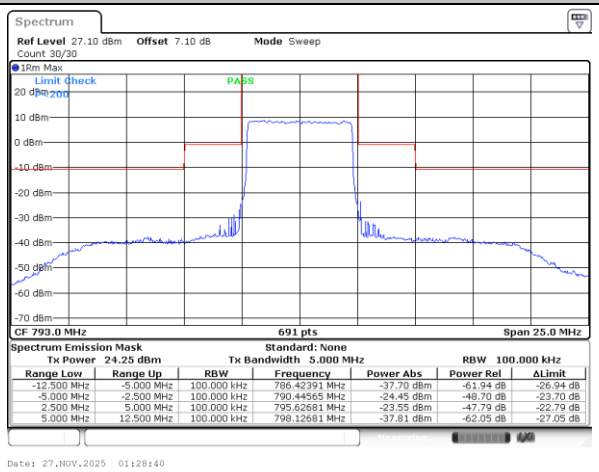
## LTE Band 14 / 5MHz / QPSK

### Middle Channel / 1RB



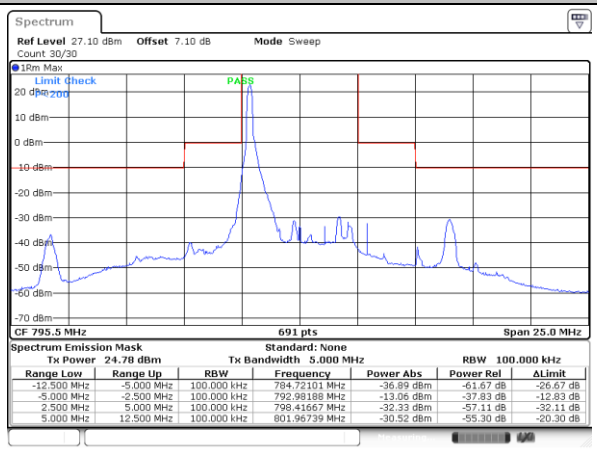



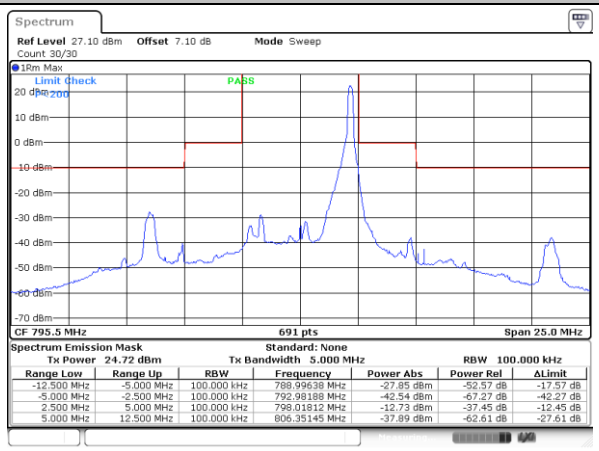

### Middle Channel / Full RB



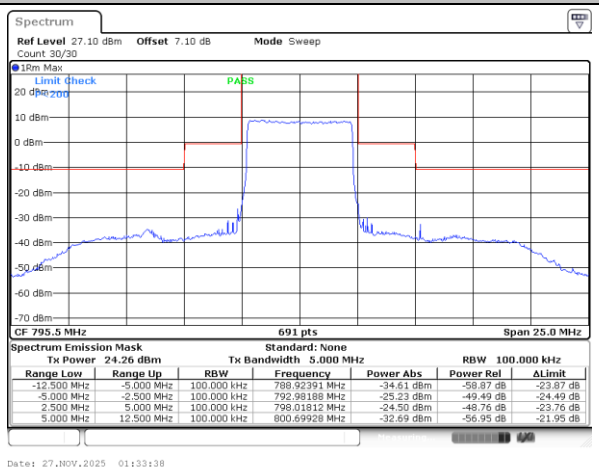
## LTE Band 14 / 5MHz / QPSK

### Highest Channel / 1RB



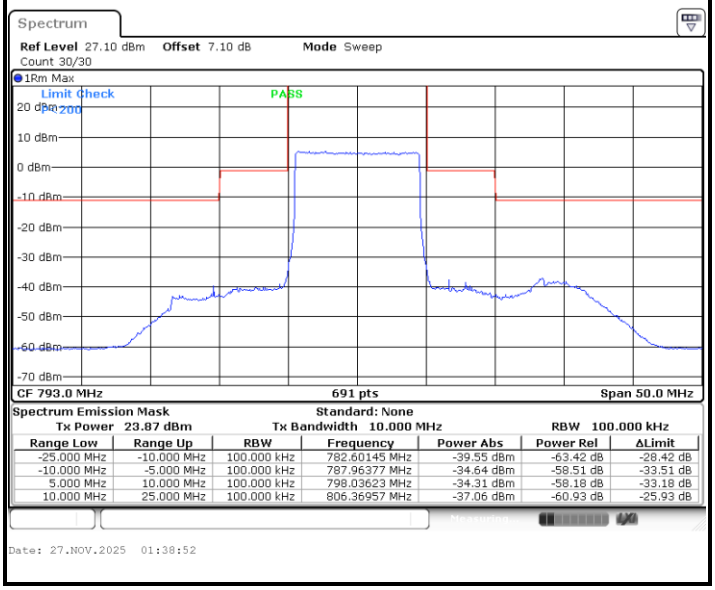




### Highest Channel / Full RB



## LTE Band 14 / 10MHz / QPSK

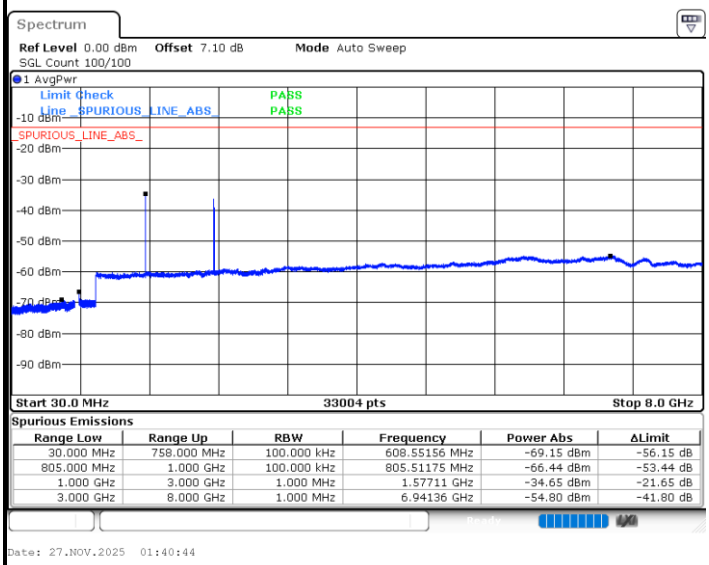
### Middle Channel / Full RB



# Conducted Spurious Emission

## LTE Band 14 / 5MHz

### Lowest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 758.000 MHz | 100.000 kHz | 608.55156 MHz | -69.15 dBm | -56.15 dB |
| 805.000 MHz | 1.000 GHz | 100.000 kHz | 805.51175 MHz | -66.44 dBm | -53.44 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.57711 GHz | -34.65 dBm | -21.65 dB |
| 3.000 GHz | 8.000 GHz | 1.000 MHz | 6.94136 GHz | -54.80 dBm | -41.80 dB |

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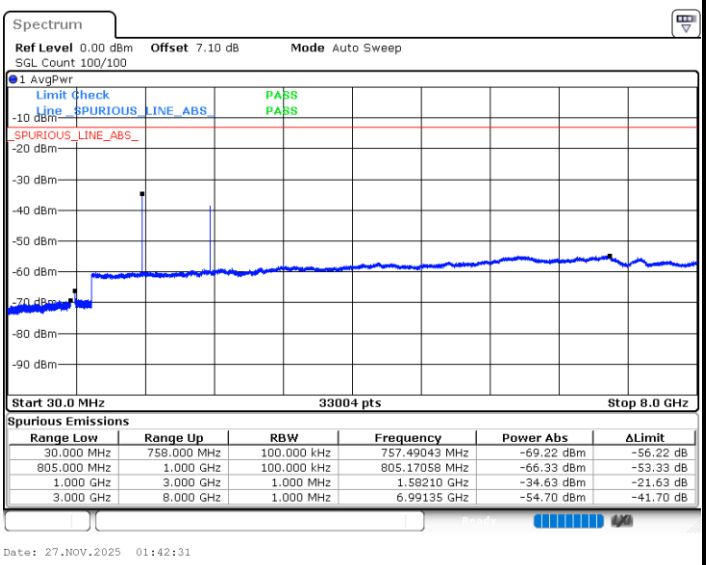
### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 758.000 MHz | 100.000 kHz | 757.49043 MHz | -69.22 dBm | -56.22 dB |
| 805.000 MHz | 1.000 GHz | 100.000 kHz | 805.17058 MHz | -66.33 dBm | -53.33 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.58210 GHz | -34.63 dBm | -21.63 dB |
| 3.000 GHz | 8.000 GHz | 1.000 MHz | 6.99135 GHz | -54.70 dBm | -41.70 dB |

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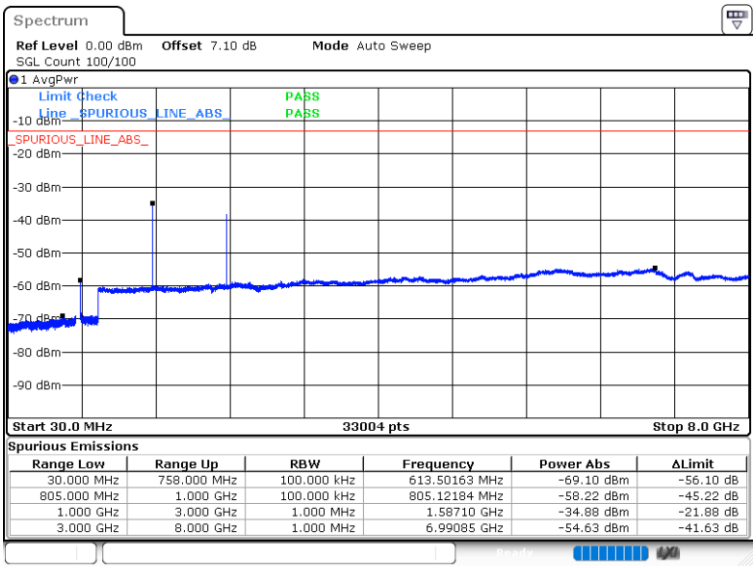
### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 758.000 MHz | 100.000 kHz | 613.50163 MHz | -69.10 dBm | -56.10 dB |
| 805.000 MHz | 1.000 GHz | 100.000 kHz | 805.12184 MHz | -58.22 dBm | -45.22 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.58710 GHz | -34.88 dBm | -21.88 dB |
| 3.000 GHz | 8.000 GHz | 1.000 MHz | 6.99085 GHz | -54.63 dBm | -41.63 dB |

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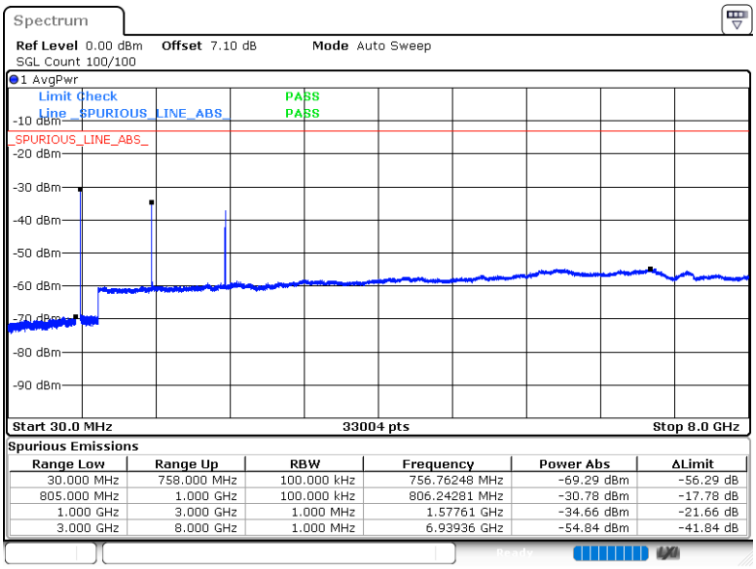
| LTE Band 14 / 10MHz |
|---|
| Middle Channel / QPSK |




| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 758.000 MHz | 100.000 kHz | 756.76248 MHz | -69.29 dBm | -56.29 dB |
| 805.000 MHz | 1.000 GHz | 100.000 kHz | 806.24281 MHz | -30.78 dBm | -17.78 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.57761 GHz | -34.66 dBm | -21.66 dB |
| 3.000 GHz | 8.000 GHz | 1.000 MHz | 6.93936 GHz | -54.84 dBm | -41.84 dB |

# Frequency Stability

| Test Conditions | | LTE Band 14 (QPSK) / Middle Channel | | | | |
|---|---|---|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Frequency Offset (△f) (Hz) | | Within Authorized Frequency Block(Hz) | Result |
| | | BW 10MHz | BW 5MHz | BW 10MHz | | |
| 50 | Normal Voltage | 0.0004 | 5.9 | 0.3 | Yes | PASS |
| 40 | Normal Voltage | 0.0077 | 3.1 | 6.1 | Yes | |
| 30 | Normal Voltage | 0.0150 | 12.6 | 11.9 | Yes | |
| 20(Ref.) | Normal Voltage | 0.0000 | 0 | 0 | Yes | |
| 10 | Normal Voltage | 0.0096 | -0.5 | 7.6 | Yes | |
| 0 | Normal Voltage | 0.0057 | 5.9 | 4.5 | Yes | |
| -10 | Normal Voltage | 0.0028 | -1.2 | -2.2 | Yes | |
| -20 | Normal Voltage | 0.0082 | -3.2 | -6.5 | Yes | |
| -30 | Normal Voltage | 0.0005 | 2.9 | -0.4 | Yes | |
| 20 | Maximum Voltage | 0.0037 | 13.1 | 2.9 | Yes | |
| 20 | Normal Voltage | 0.0000 | 0 | 0 | Yes | |
| 20 | Minimum Voltage | 0.0016 | -1.1 | -1.3 | Yes | |

|MAX(△f)| = 13.1Hz (IC BW 5MHz)

| Frequency Stability | Frequency (MHz) | Limit Line | Result |
|---|---|---|---|
| $f_L$ – \|MAX(△f)\| | 788.130000 | ≧ 788 MHz | PASS |
| $f_H$ + \|MAX(△f)\| | 797.928000 | ≦ 799 MHz | |

|MAX(△f)| = 11.9Hz (IC BW 10MHz)

| Frequency Stability | Frequency (MHz) | Limit Line | Result |
|---|---|---|---|
| $f_L$ – \|MAX(△f)\| | 788.404988 | ≧ 788 MHz | PASS |
| $f_H$ + \|MAX(△f)\| | 797.667012 | ≦ 799 MHz | |

**Note:**

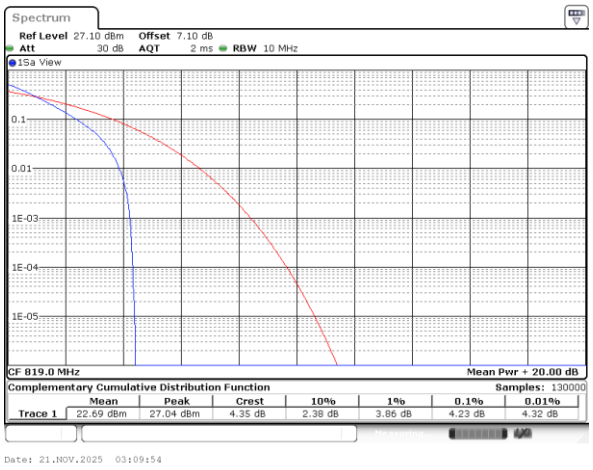
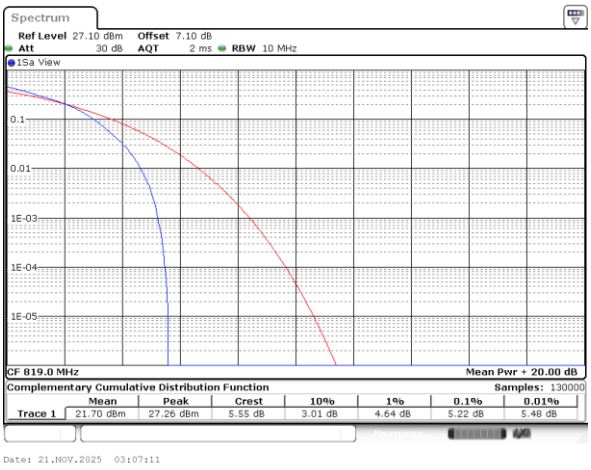
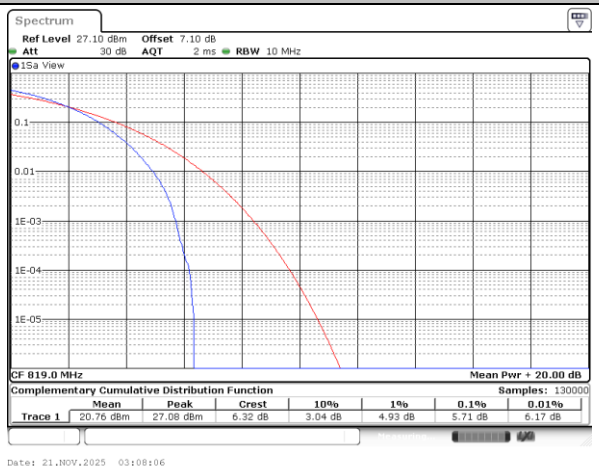
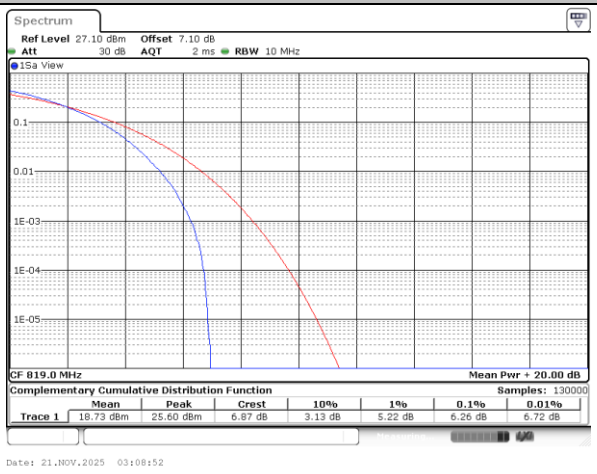
1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.
3. The frequency variation is sufficient to ensure that the occupied bandwidth of all operation channels stay within the operating frequency block or frequency block group.

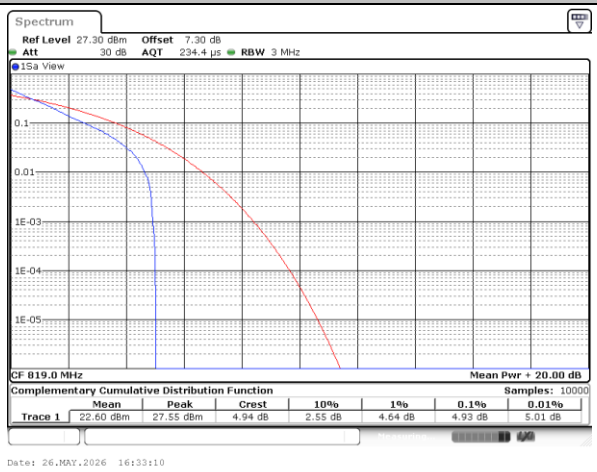
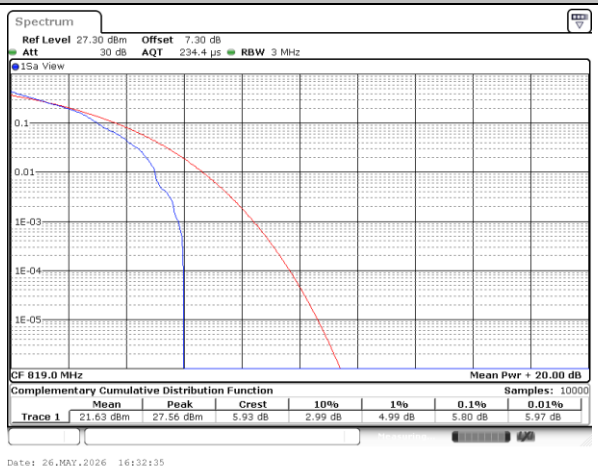
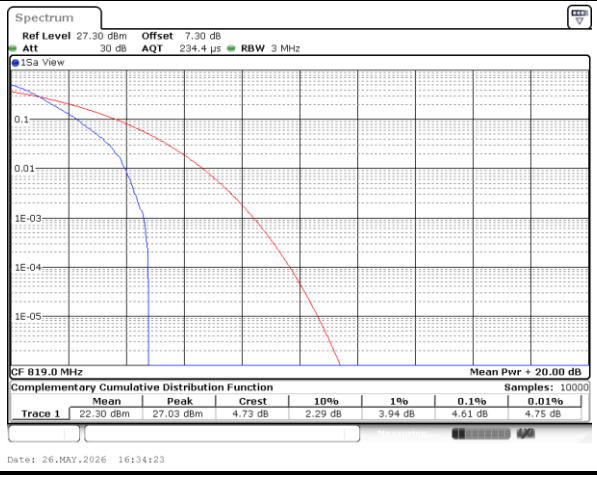
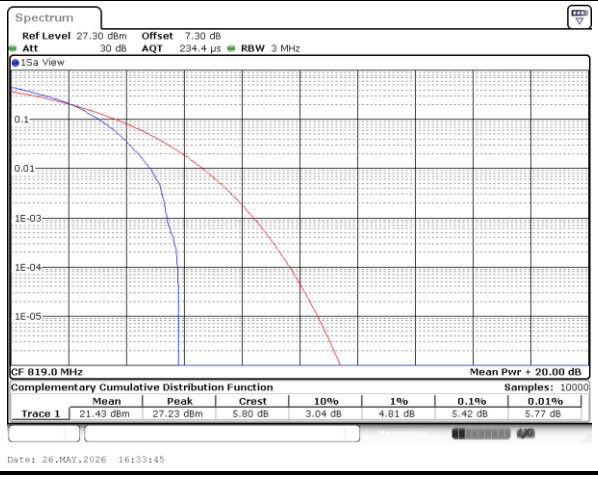
# LTE Band 26_Part 90S

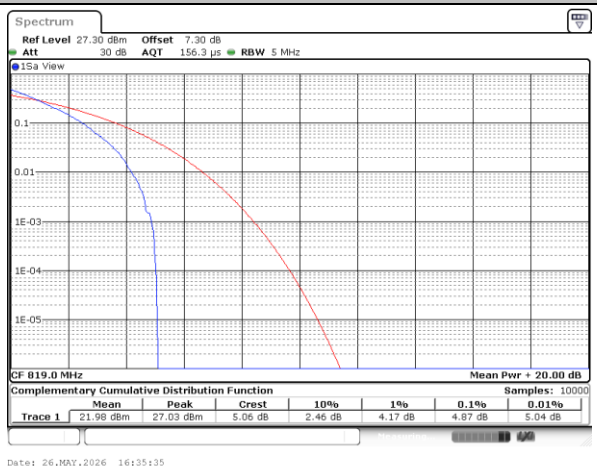
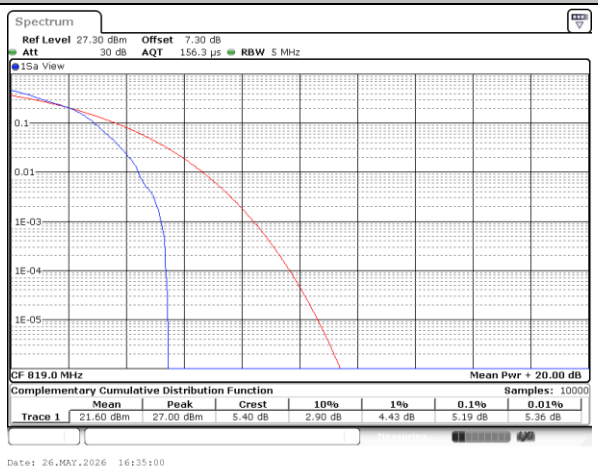
## Peak-to-Average Ratio

| Mode | LTE Band 26 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 4.23 | 5.22 | 5.71 | 6.26 | PASS |

| Mode | LTE Band 26 / 1.4MHz | | |
|---|---|---|---|
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.93 | 5.80 | PASS |
| Mode | LTE Band 26 / 3MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.61 | 5.42 | PASS |
| Mode | LTE Band 26 / 5MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.87 | 5.19 | PASS |
| Mode | LTE Band 26 / 15MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.43 | 5.42 | PASS |

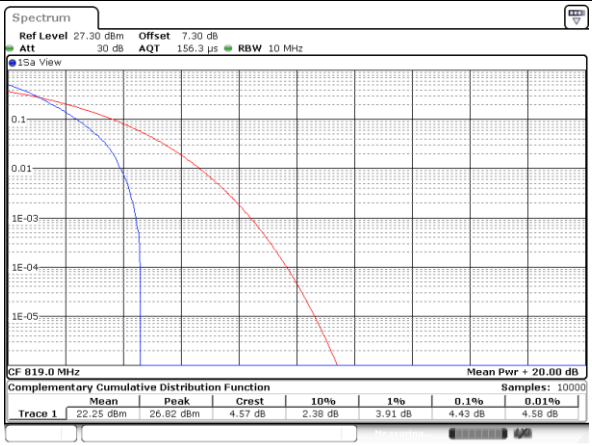
| LTE Band 26 / 10MHz / QPSK | LTE Band 26 / 10MHz / 16QAM |
|---|---|
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |
| LTE Band 26 / 10MHz / 64QAM | LTE Band 26 / 10MHz / 256QAM |
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |

| LTE Band 26 / 1.4MHz / QPSK | LTE Band 26 / 1.4MHz / 16QAM |
|---|---|
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |
| LTE Band 26 / 3MHz / QPSK | LTE Band 26 / 3MHz / 16QAM |
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |

| LTE Band 26 / 5MHz / QPSK | LTE Band 26 / 5MHz / 16QAM |
|---|---|
| Middle Channel / Full RB | Middle Channel / Full RB |
|  |  |





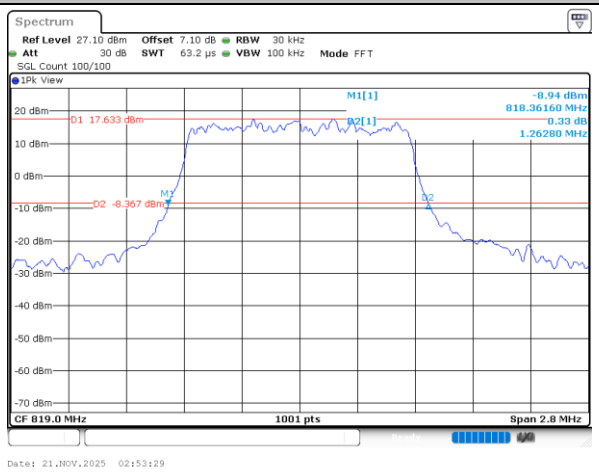
| LTE Band 26 / 15MHz / QPSK | LTE Band 26 / 15MHz / 16QAM |
|---|---|
| Middle Channel / Full RB | Middle Channel / Full RB |
|  | |

# 26dB Bandwidth

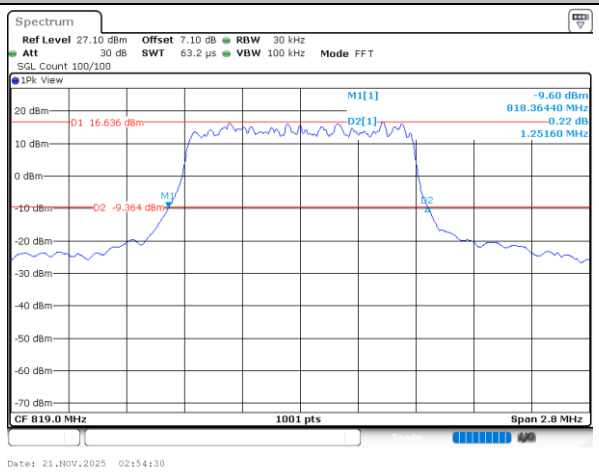
| Mode | LTE Band 26 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Low CH | - | - | - | - | - | - | - | - | 14.58 | 14.46 | - | - |
| Middle CH | 1.26 | 1.25 | 2.99 | 2.98 | 4.91 | 4.89 | 9.72 | 9.94 | - | - | - | - |

**LTE Band 26**

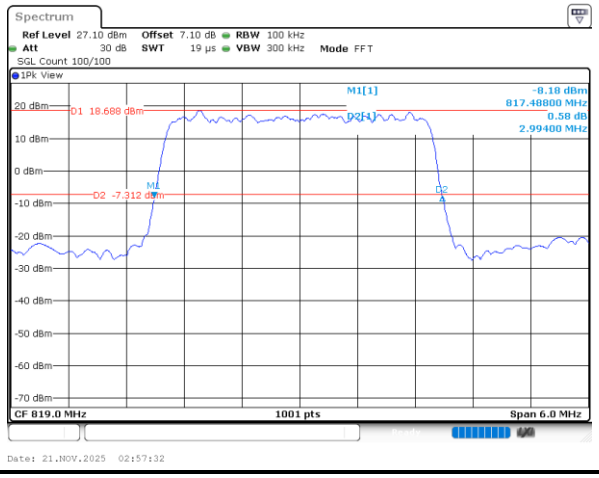
**Middle Channel / 1.4MHz / QPSK**



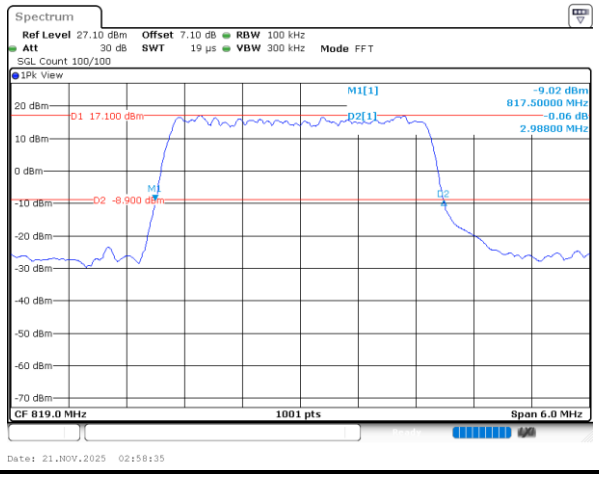

**Middle Channel / 1.4MHz / 16QAM**




**Middle Channel / 3MHz / QPSK**

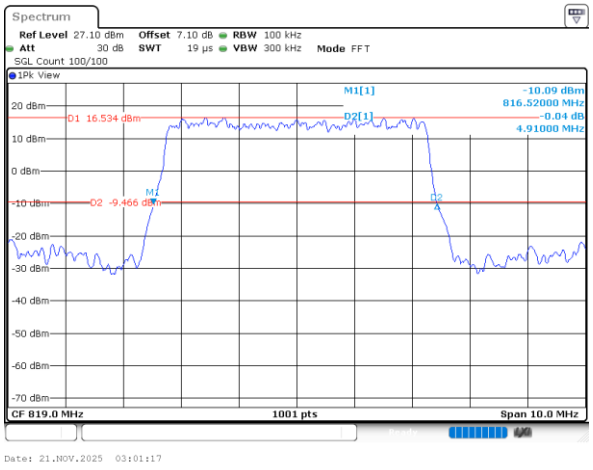



**Middle Channel / 3MHz / 16QAM**

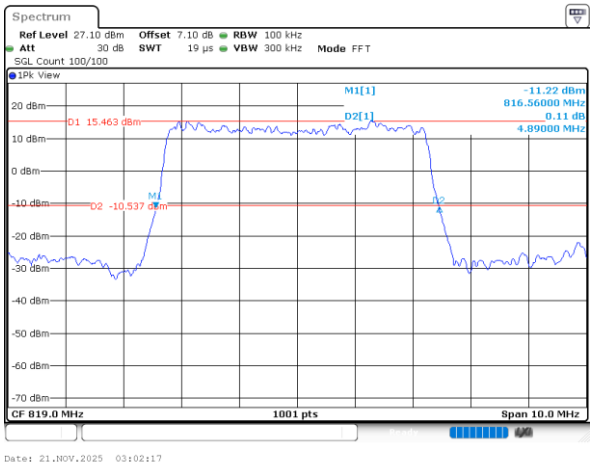


## LTE Band 26

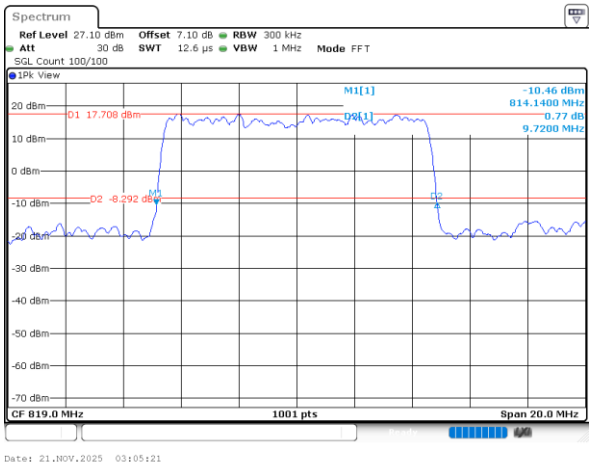
### Middle Channel / 5MHz / QPSK



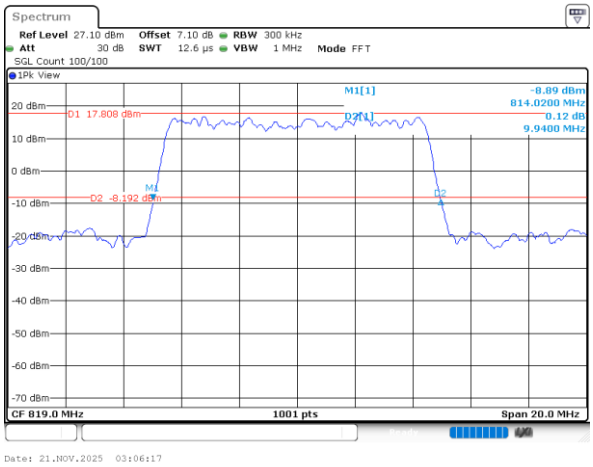

### Middle Channel / 5MHz / 16QAM



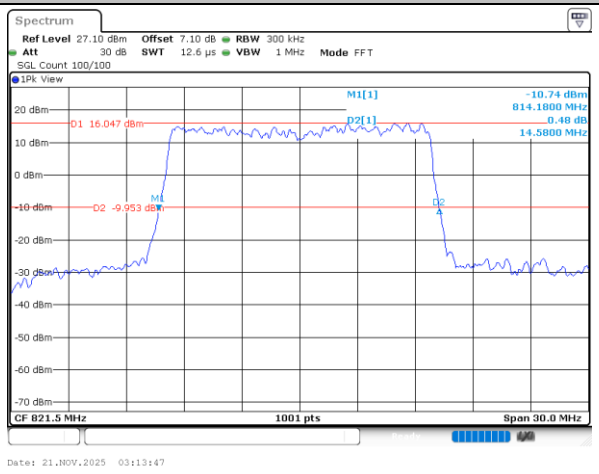

### Middle Channel / 10MHz / QPSK



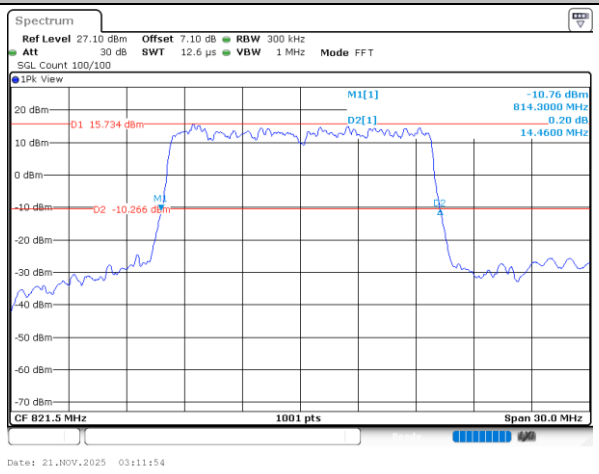

### Middle Channel / 10MHz / 16QAM




### Low Channel / 15MHz / QPSK




### Low Channel / 15MHz / 16QAM

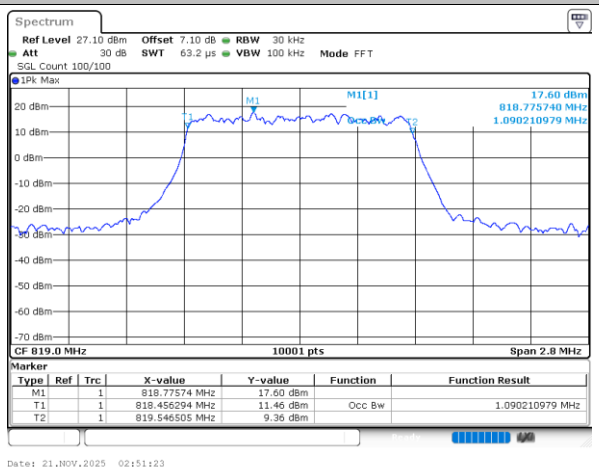


# Occupied Bandwidth

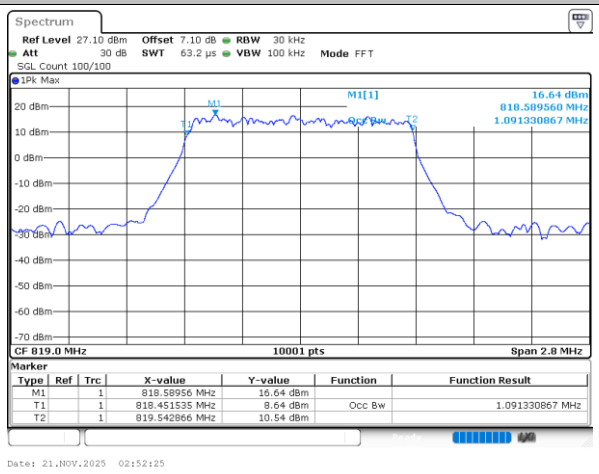
| Mode | LTE Band 26 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Low CH | - | - | - | - | - | - | - | - | 13.43 | 13.44 | - | - |
| Middle CH | 1.09 | 1.09 | 2.71 | 2.72 | 4.48 | 4.49 | 9.01 | 8.99 | - | - | - | - |

## LTE Band 26

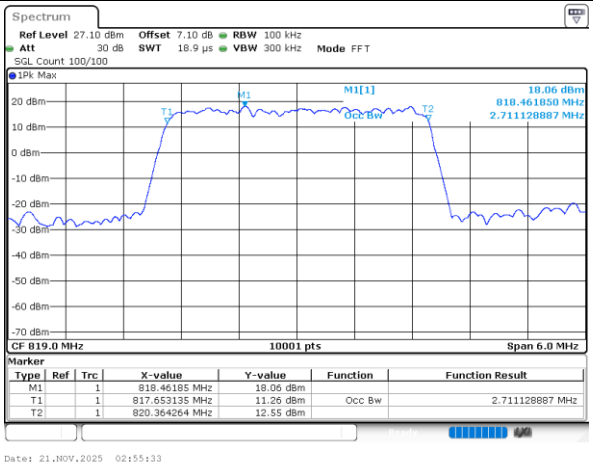
### Middle Channel / 1.4MHz / QPSK



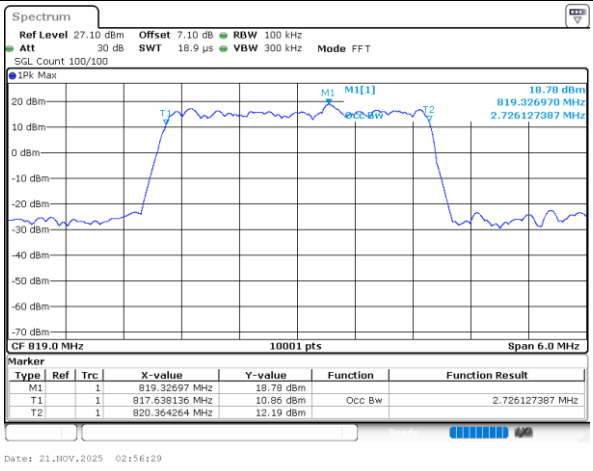

### Middle Channel / 1.4MHz / 16QAM




### Middle Channel / 3MHz / QPSK

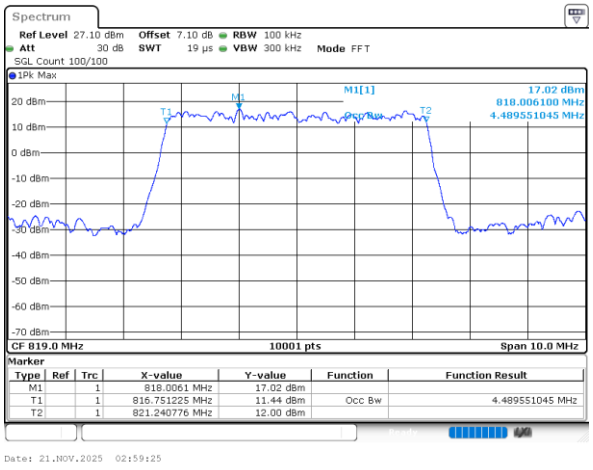



### Middle Channel / 3MHz / 16QAM

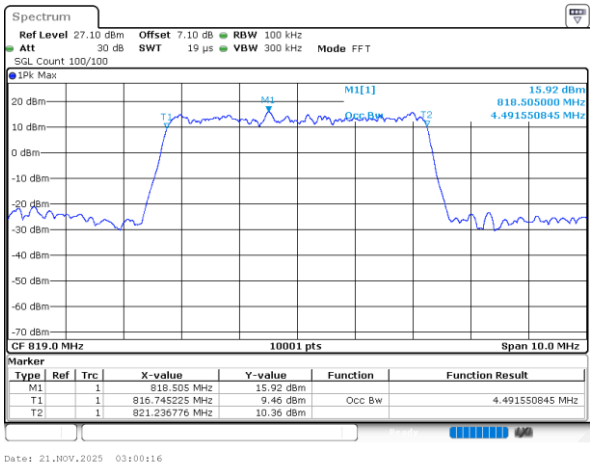


## LTE Band 26

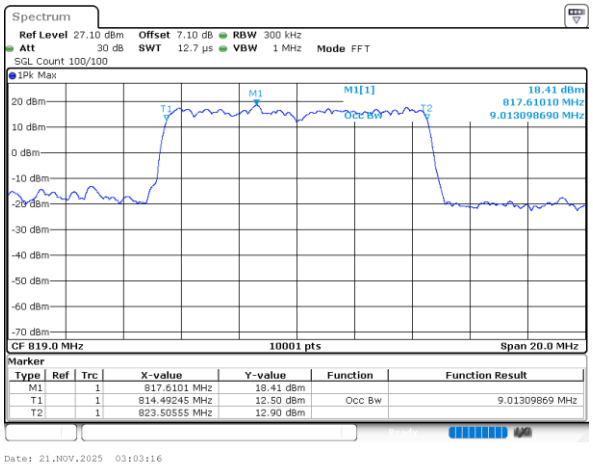
### Middle Channel / 5MHz / QPSK



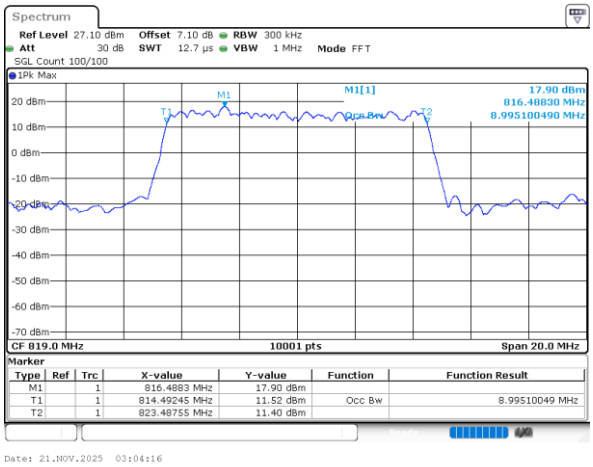

### Middle Channel / 5MHz / 16QAM



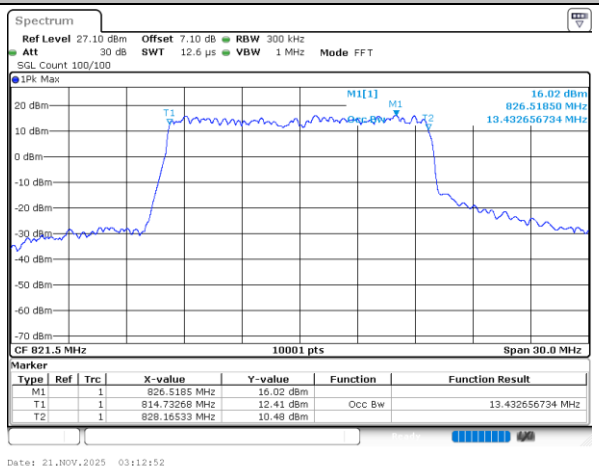

### Middle Channel / 10MHz / QPSK



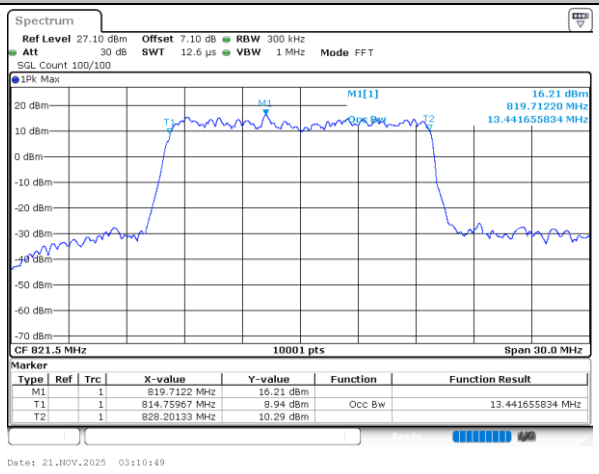

### Middle Channel / 10MHz / 16QAM




### Low Channel / 15MHz / QPSK



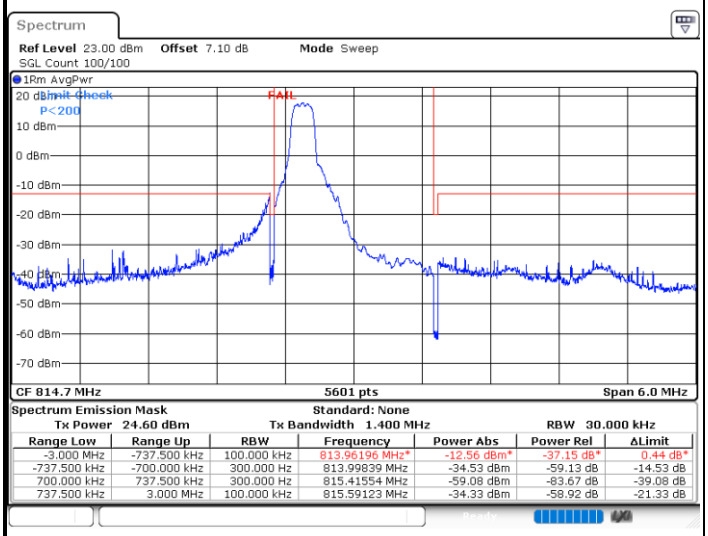

### Low Channel / 15MHz / 16QAM



# Emission masks – In-band emissions

## LTE Band 26 / 1.4MHz / QPSK

### Lowest Channel / 1RB

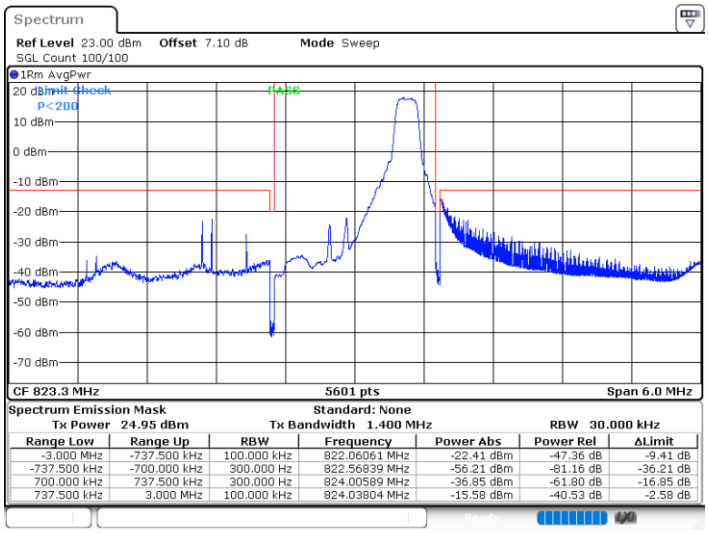



Spectrum Emission Mask Standard: None
Tx Power 24.60 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -3.000 MHz | -737.500 kHz | 100.000 kHz | 813.96196 MHz* | -12.56 dBm* | -37.15 dB* | 0.44 dB* |
| -737.500 kHz | -700.000 kHz | 300.000 Hz | 813.99839 MHz | -34.53 dBm | -59.13 dB | -14.53 dB |
| 700.000 kHz | 737.500 kHz | 300.000 Hz | 815.41554 MHz | -59.08 dBm | -83.67 dB | -39.08 dB |
| 737.500 kHz | 3.000 MHz | 100.000 kHz | 815.59123 MHz | -34.33 dBm | -58.92 dB | -21.33 dB |

Date: 21.NOV.2025 02:21:37

### Highest Channel / 1RB

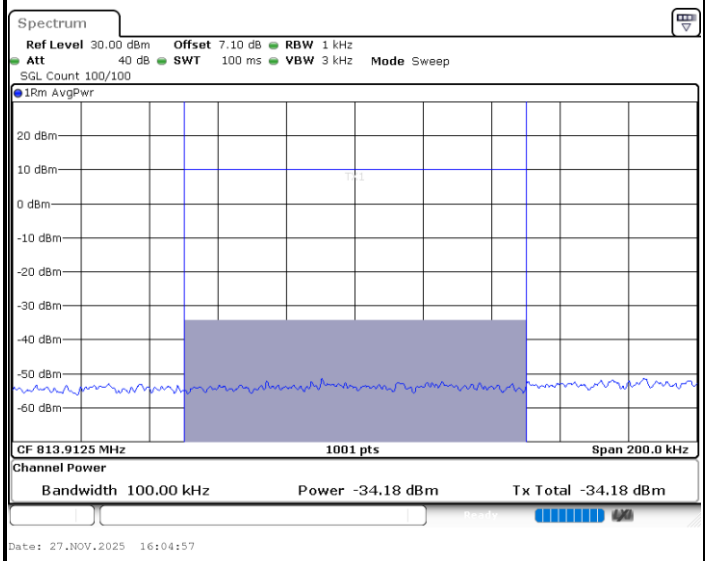



Spectrum Emission Mask Standard: None
Tx Power 24.95 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -3.000 MHz | -737.500 kHz | 100.000 kHz | 822.06061 MHz | -22.41 dBm | -47.36 dB | -9.41 dB |
| -737.500 kHz | -700.000 kHz | 300.000 Hz | 822.56839 MHz | -56.21 dBm | -81.16 dB | -36.21 dB |
| 700.000 kHz | 737.500 kHz | 300.000 Hz | 824.00589 MHz | -36.85 dBm | -61.80 dB | -16.85 dB |
| 737.500 kHz | 3.000 MHz | 100.000 kHz | 824.03804 MHz | -15.58 dBm | -40.53 dB | -2.58 dB |

Date: 27.NOV.2025 15:25:38

### Conducted Power verify

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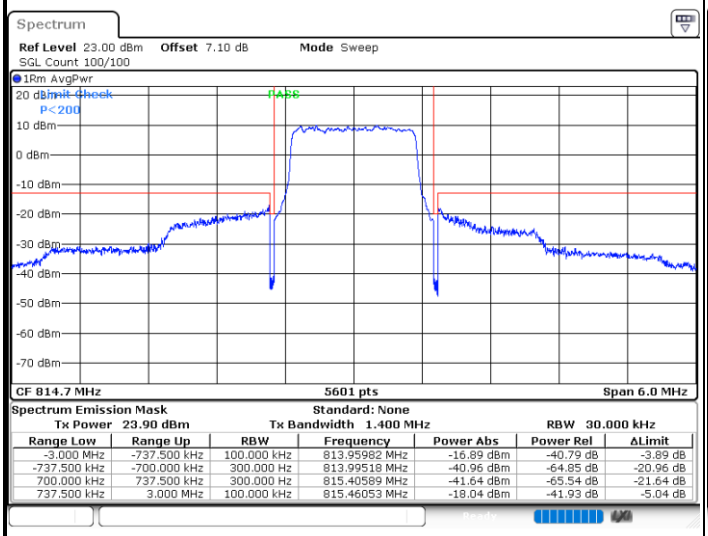
### N/A

## LTE Band 26 / 1.4MHz / QPSK

### Lowest Channel / Full RB




Spectrum Emission Mask Standard: None
Tx Power 23.90 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -3.000 MHz | -737.500 kHz | 100.000 kHz | 813.95982 MHz | -16.89 dBm | -40.79 dB | -3.89 dB |
| -737.500 kHz | -700.000 kHz | 300.000 Hz | 813.99518 MHz | -40.96 dBm | -64.85 dB | -20.96 dB |
| 700.000 kHz | 737.500 kHz | 300.000 Hz | 815.40589 MHz | -41.64 dBm | -65.54 dB | -21.64 dB |
| 737.500 kHz | 3.000 MHz | 100.000 kHz | 815.46053 MHz | -18.04 dBm | -41.93 dB | -5.04 dB |

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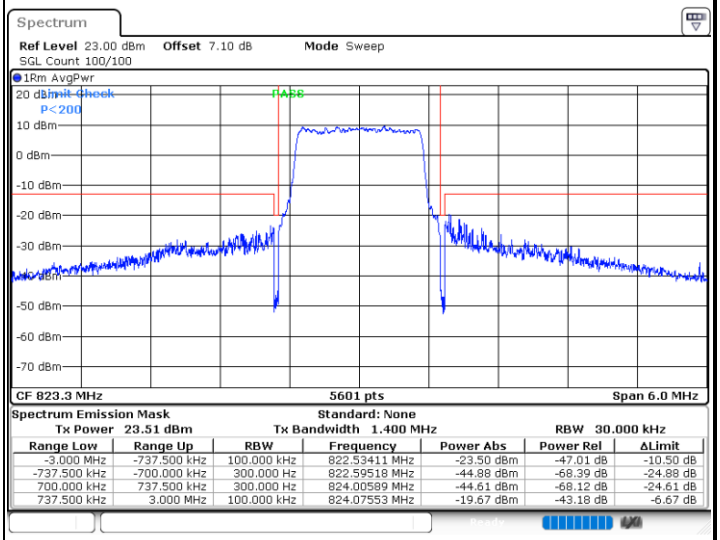
### Highest Channel / Full RB



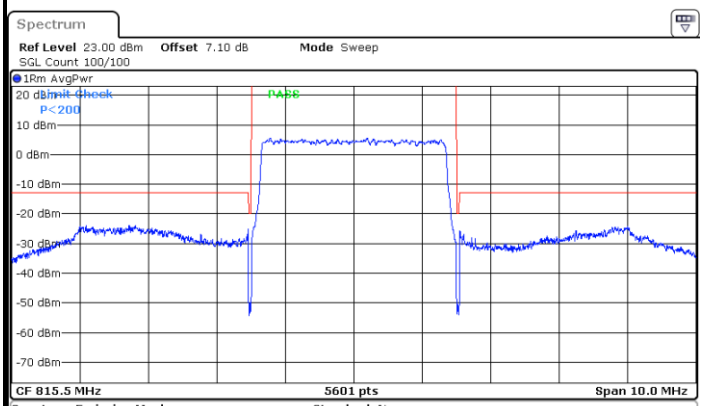

Spectrum Emission Mask Standard: None
Tx Power 23.51 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -3.000 MHz | -737.500 kHz | 100.000 kHz | 822.53411 MHz | -23.50 dBm | -47.01 dB | -10.50 dB |
| -737.500 kHz | -700.000 kHz | 300.000 Hz | 822.59518 MHz | -44.88 dBm | -68.39 dB | -24.88 dB |
| 700.000 kHz | 737.500 kHz | 300.000 Hz | 824.00589 MHz | -44.61 dBm | -68.12 dB | -24.61 dB |
| 737.500 kHz | 3.000 MHz | 100.000 kHz | 824.07553 MHz | -19.67 dBm | -43.18 dB | -6.67 dB |

Date: 21.NOV.2025 02:26:22

## LTE Band 26 / 3MHz / QPSK

### Lowest Channel / Full RB




Spectrum Emission Mask Standard: None
Tx Power 23.51 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -5.000 MHz | -1.538 MHz | 100.000 kHz | 811.58482 MHz | -23.88 dBm | -47.39 dB | -10.88 dB |
| -1.538 MHz | -1.500 MHz | 300.000 Hz | 813.99911 MHz | -48.26 dBm | -71.77 dB | -28.26 dB |
| 1.500 MHz | 1.538 MHz | 300.000 Hz | 817.01161 MHz | -48.79 dBm | -72.31 dB | -28.79 dB |
| 1.538 MHz | 5.000 MHz | 100.000 kHz | 819.50089 MHz | -24.09 dBm | -47.60 dB | -11.09 dB |

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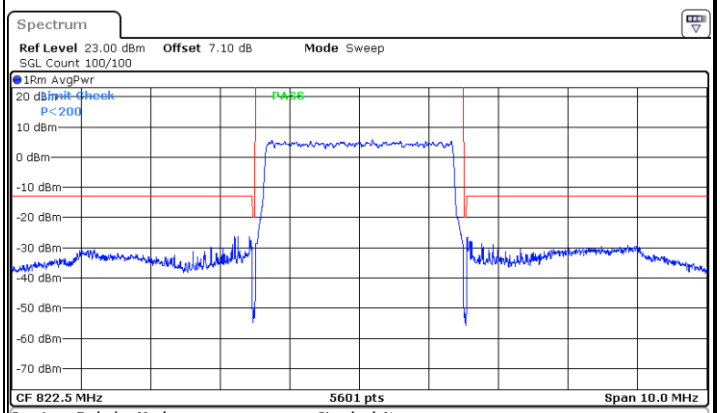
### Highest Channel / Full RB



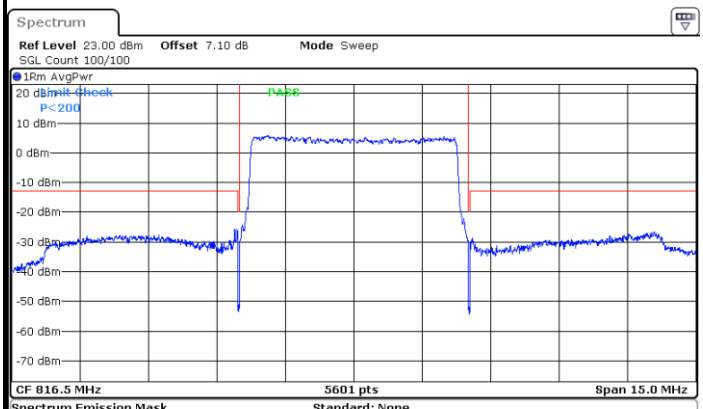

Spectrum Emission Mask Standard: None
Tx Power 23.52 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -5.000 MHz | -1.538 MHz | 100.000 kHz | 820.92232 MHz | -26.26 dBm | -49.78 dB | -13.26 dB |
| -1.538 MHz | -1.500 MHz | 300.000 Hz | 820.99911 MHz | -47.95 dBm | -71.47 dB | -27.95 dB |
| 1.500 MHz | 1.538 MHz | 300.000 Hz | 824.00268 MHz | -49.89 dBm | -73.41 dB | -29.89 dB |
| 1.538 MHz | 5.000 MHz | 100.000 kHz | 824.04911 MHz | -26.46 dBm | -49.98 dB | -13.46 dB |

Date: 21.NOV.2025 02:29:35

## LTE Band 26 / 5MHz / QPSK

### Lowest Channel / Full RB




Spectrum Emission Mask Standard: None
Tx Power 23.57 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -7.500 MHz | -2.538 MHz | 100.000 kHz | 813.88881 MHz | -25.65 dBm | -49.23 dB | -12.65 dB |
| -2.538 MHz | -2.500 MHz | 300.000 Hz | 813.99866 MHz | -49.83 dBm | -73.40 dB | -29.83 dB |
| 2.500 MHz | 2.538 MHz | 300.000 Hz | 819.01205 MHz | -51.10 dBm | -74.67 dB | -31.10 dB |
| 2.538 MHz | 7.500 MHz | 100.000 kHz | 823.07958 MHz | -26.63 dBm | -50.20 dB | -13.63 dB |

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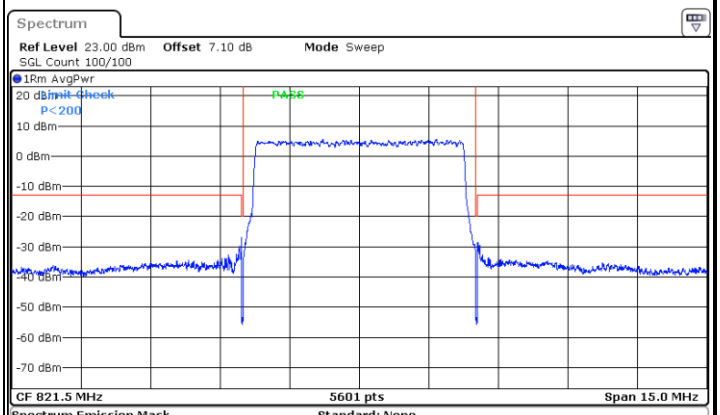
### Highest Channel / Full RB




Spectrum Emission Mask Standard: None
Tx Power 23.56 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -7.500 MHz | -2.538 MHz | 100.000 kHz | 818.95848 MHz | -26.98 dBm | -50.53 dB | -13.98 dB |
| -2.538 MHz | -2.500 MHz | 300.000 Hz | 818.99866 MHz | -51.25 dBm | -74.81 dB | -31.25 dB |
| 2.500 MHz | 2.538 MHz | 300.000 Hz | 824.01205 MHz | -52.13 dBm | -75.68 dB | -32.13 dB |
| 2.538 MHz | 7.500 MHz | 100.000 kHz | 824.04956 MHz | -28.59 dBm | -52.14 dB | -15.59 dB |

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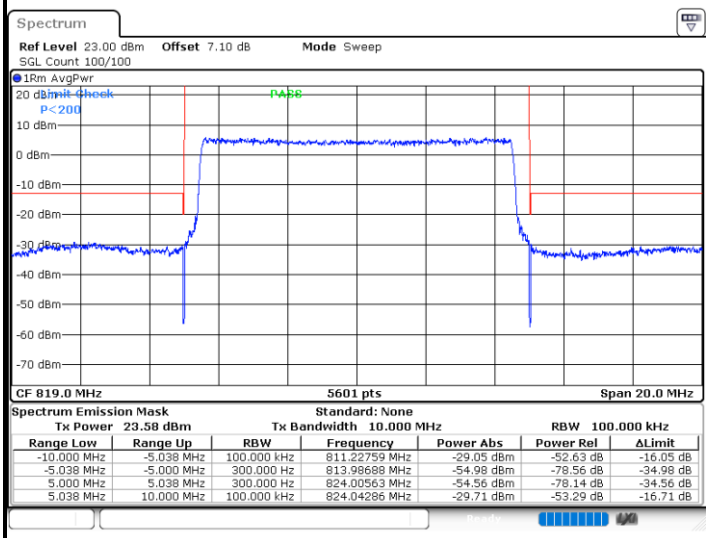
| LTE Band 26 / 10MHz / QPSK | LTE Band 26 / 15MHz / QPSK |
|---|---|
| **Middle Channel / Full RB** | **Lowest Channel / Full RB** |




| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -10.000 MHz | -5.038 MHz | 100.000 kHz | 811.22759 MHz | -29.05 dBm | -52.63 dB | -16.05 dB |
| -5.038 MHz | -5.000 MHz | 300.000 Hz | 813.98688 MHz | -54.98 dBm | -78.56 dB | -34.98 dB |
| 5.000 MHz | 5.038 MHz | 300.000 Hz | 824.00563 MHz | -54.56 dBm | -78.14 dB | -34.56 dB |
| 5.038 MHz | 10.000 MHz | 100.000 kHz | 824.04286 MHz | -29.71 dBm | -53.29 dB | -16.71 dB |

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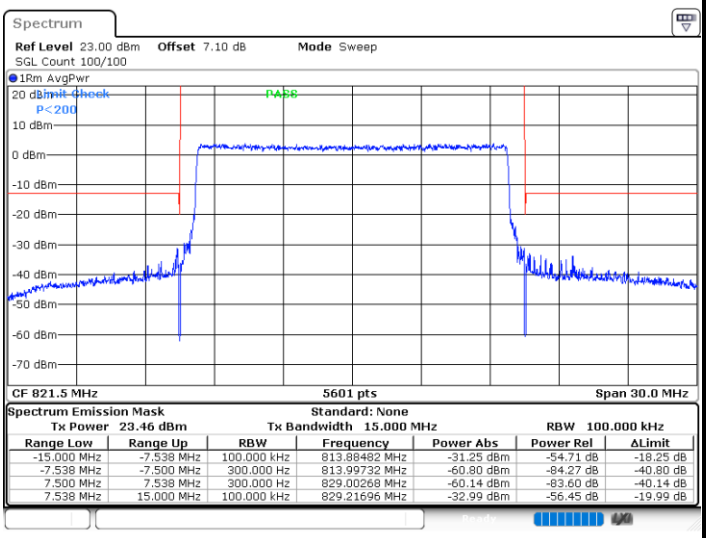


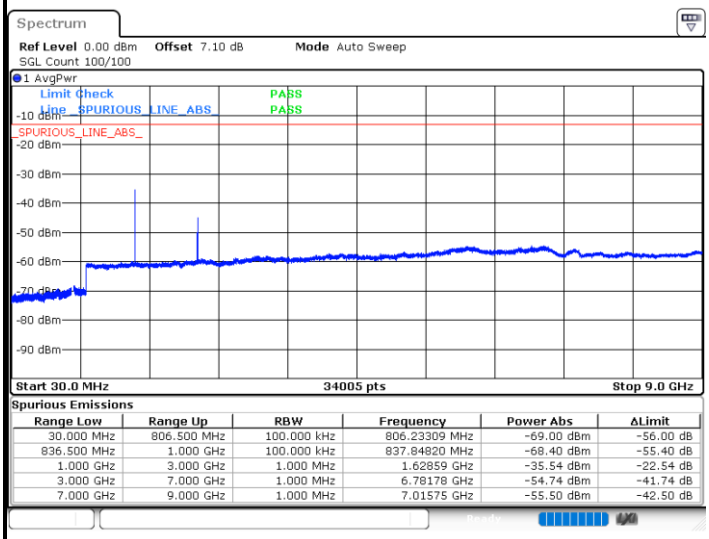

| Range Low | Range Up | RBW | Frequency | Power Abs | Power Rel | ΔLimit |
|---|---|---|---|---|---|---|
| -15.000 MHz | -7.538 MHz | 100.000 kHz | 813.88482 MHz | -31.25 dBm | -54.71 dB | -18.25 dB |
| -7.538 MHz | -7.500 MHz | 300.000 Hz | 813.99732 MHz | -60.80 dBm | -84.27 dB | -40.80 dB |
| 7.500 MHz | 7.538 MHz | 300.000 Hz | 829.00268 MHz | -60.14 dBm | -83.60 dB | -40.14 dB |
| 7.538 MHz | 15.000 MHz | 100.000 kHz | 829.21696 MHz | -32.99 dBm | -56.45 dB | -19.99 dB |

Date: 21.NOV.2025 02:35:49

# Emission masks – Out of band emissions

## LTE Band 26 / 1.4MHz

### Lowest Channel / QPSK

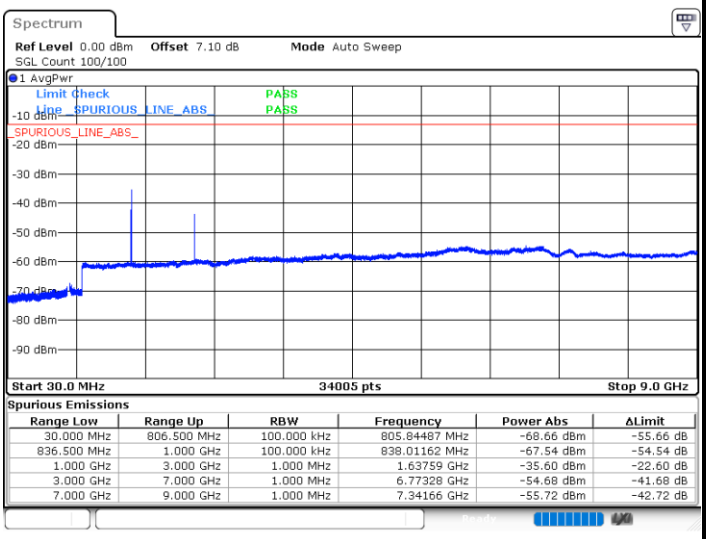



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 806.23309 MHz | -69.00 dBm | -56.00 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 837.84820 MHz | -68.40 dBm | -55.40 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.62859 GHz | -35.54 dBm | -22.54 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.78178 GHz | -54.74 dBm | -41.74 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.01575 GHz | -55.50 dBm | -42.50 dB |

Date: 21.NOV.2025 02:16:07

### Middle Channel / QPSK

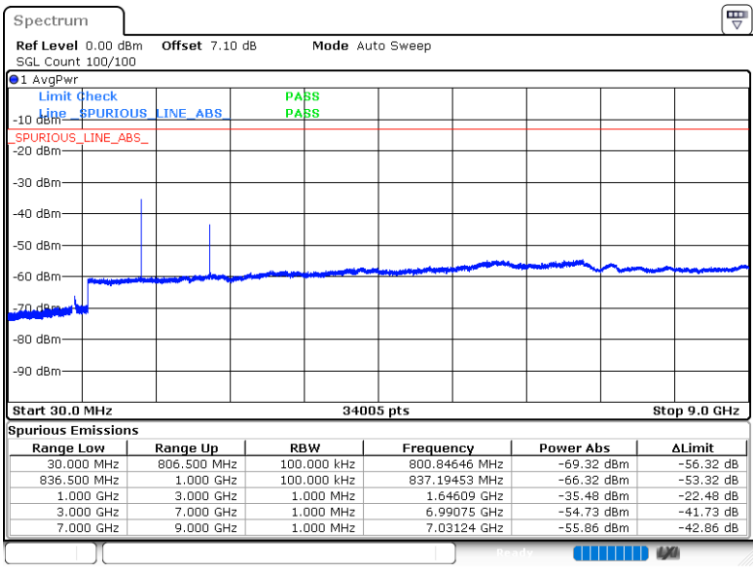



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 805.84487 MHz | -68.66 dBm | -55.66 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 838.01162 MHz | -67.54 dBm | -54.54 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.63759 GHz | -35.60 dBm | -22.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.77328 GHz | -54.68 dBm | -41.68 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.34166 GHz | -55.72 dBm | -42.72 dB |

Date: 21.NOV.2025 02:18:02

### Highest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 800.84646 MHz | -69.32 dBm | -56.32 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 837.19453 MHz | -66.32 dBm | -53.32 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64609 GHz | -35.48 dBm | -22.48 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.99075 GHz | -54.73 dBm | -41.73 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03124 GHz | -55.86 dBm | -42.86 dB |

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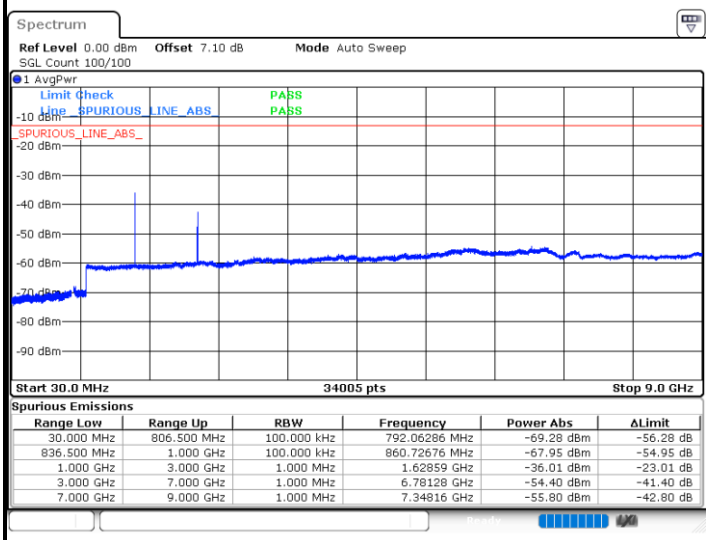
## LTE Band 26 / 3MHz

### Lowest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 792.06286 MHz | -69.28 dBm | -56.28 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 860.72676 MHz | -67.95 dBm | -54.95 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.62859 GHz | -36.01 dBm | -23.01 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.78128 GHz | -54.40 dBm | -41.40 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.34816 GHz | -55.80 dBm | -42.80 dB |

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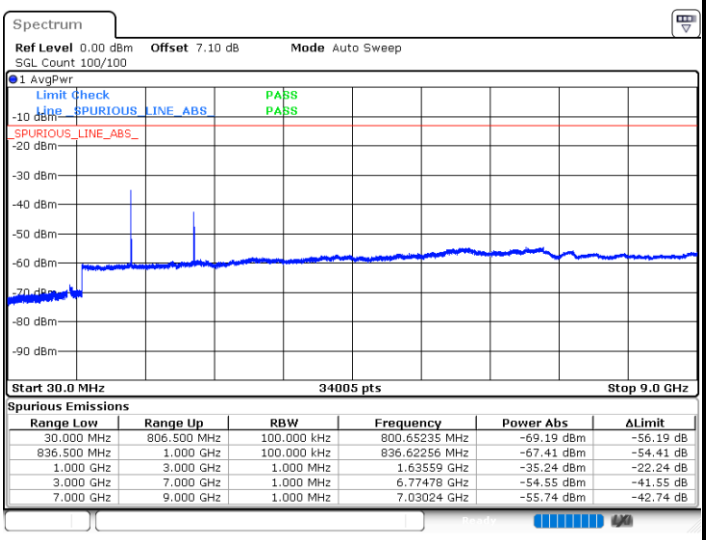
### Middle Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 800.65235 MHz | -69.19 dBm | -56.19 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 836.62256 MHz | -67.41 dBm | -54.41 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.63559 GHz | -35.24 dBm | -22.24 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.77478 GHz | -54.55 dBm | -41.55 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03024 GHz | -55.74 dBm | -42.74 dB |

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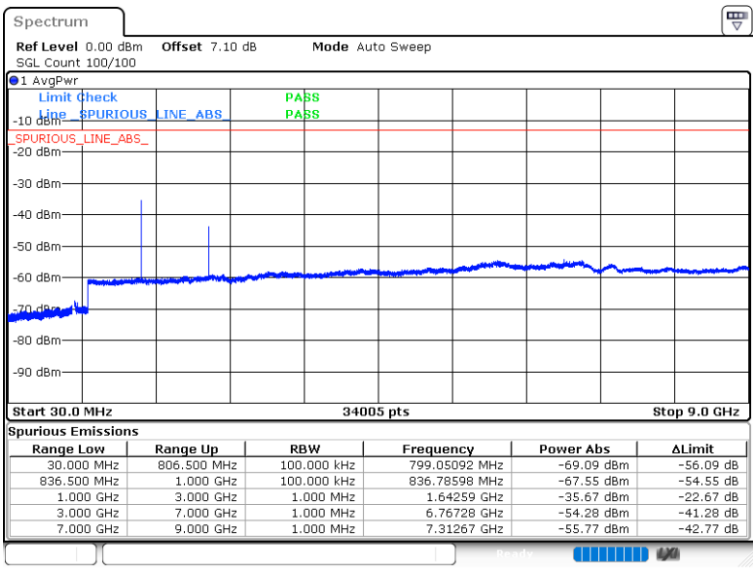
### Highest Channel / QPSK



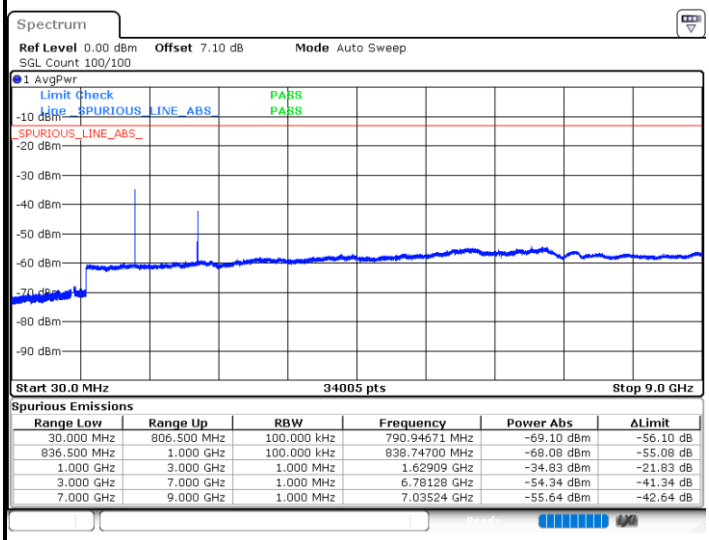

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 799.05092 MHz | -69.09 dBm | -56.09 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 836.78598 MHz | -67.55 dBm | -54.55 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.64259 GHz | -35.67 dBm | -22.67 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.76728 GHz | -54.28 dBm | -41.28 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.31267 GHz | -55.77 dBm | -42.77 dB |

Date: 21.NOV.2025 02:41:00

## LTE Band 26 / 5MHz

### Lowest Channel / QPSK

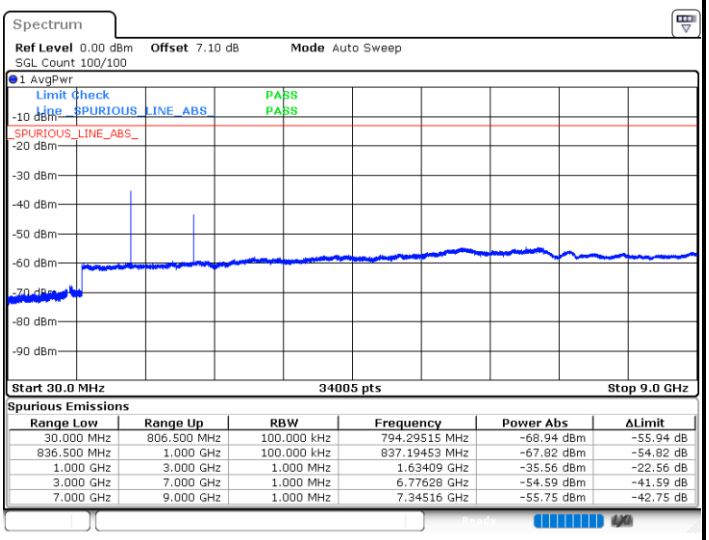



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 790.94671 MHz | -69.10 dBm | -56.10 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 838.74700 MHz | -68.08 dBm | -55.08 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.62909 GHz | -34.83 dBm | -21.83 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.78128 GHz | -54.34 dBm | -41.34 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.03524 GHz | -55.64 dBm | -42.64 dB |

Date: 21.NOV.2025 02:42:44

### Middle Channel / QPSK

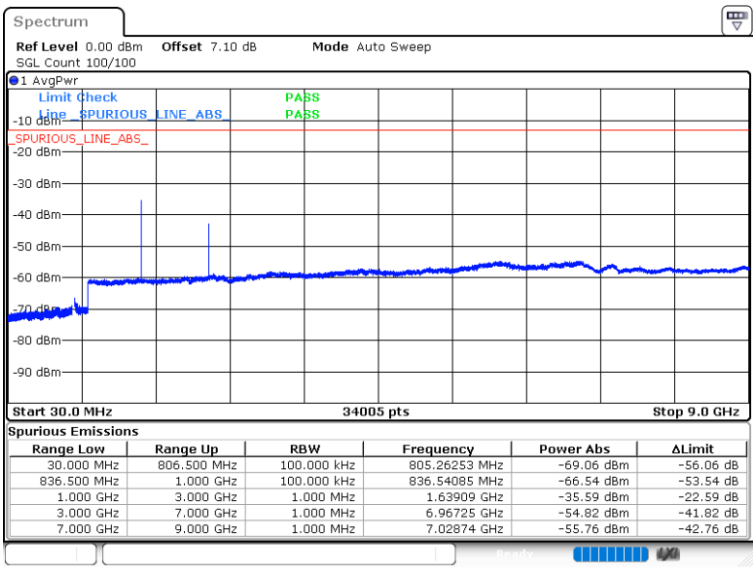



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 794.29515 MHz | -68.94 dBm | -55.94 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 837.19453 MHz | -67.82 dBm | -54.82 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.63409 GHz | -35.56 dBm | -22.56 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.77628 GHz | -54.59 dBm | -41.59 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.34516 GHz | -55.75 dBm | -42.75 dB |

Date: 21.NOV.2025 02:44:26

### Highest Channel / QPSK



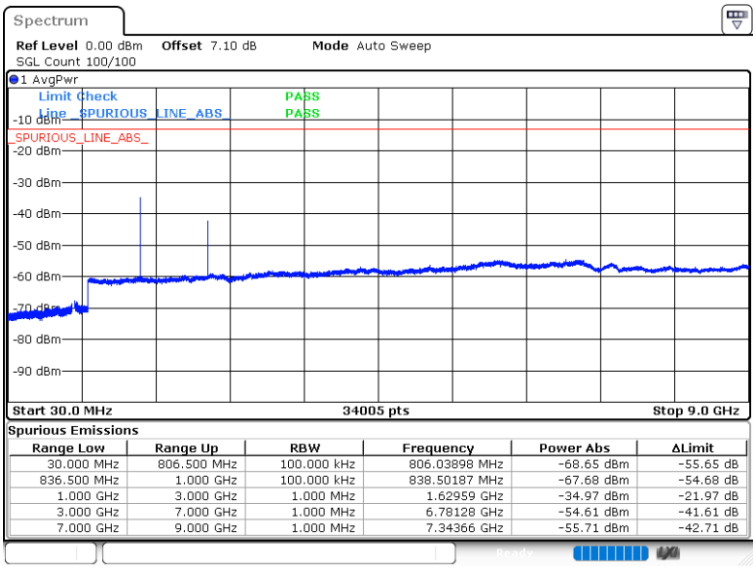

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 805.26253 MHz | -69.06 dBm | -56.06 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 836.54085 MHz | -66.54 dBm | -53.54 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.63909 GHz | -35.59 dBm | -22.59 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.96725 GHz | -54.82 dBm | -41.82 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.02874 GHz | -55.76 dBm | -42.76 dB |

Date: 21.NOV.2025 02:46:22

## LTE Band 26 / 10MHz

### Middle Channel / QPSK



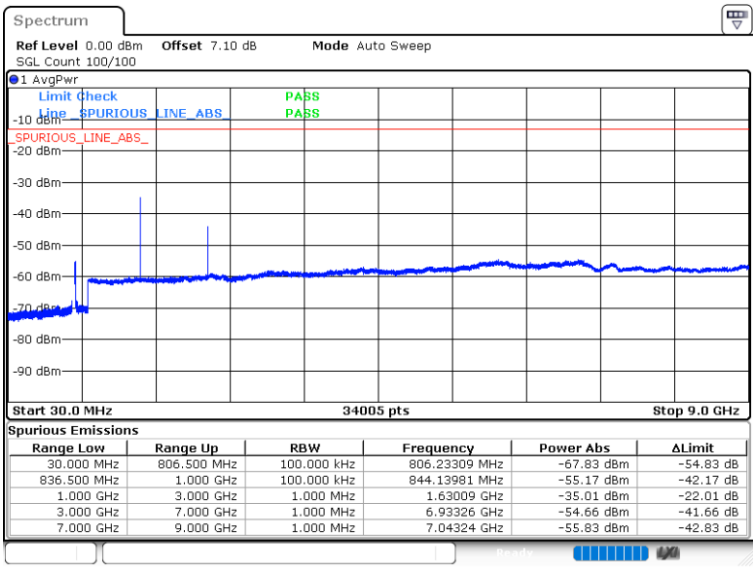

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 806.03898 MHz | -68.65 dBm | -55.65 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 838.50187 MHz | -67.68 dBm | -54.68 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.62959 GHz | -34.97 dBm | -21.97 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.78128 GHz | -54.61 dBm | -41.61 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.34366 GHz | -55.71 dBm | -42.71 dB |

Date: 21.NOV.2025 02:48:24

## LTE Band 26 / 15MHz

### Lowest Channel / QPSK




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 806.500 MHz | 100.000 kHz | 806.23309 MHz | -67.83 dBm | -54.83 dB |
| 836.500 MHz | 1.000 GHz | 100.000 kHz | 844.13981 MHz | -55.17 dBm | -42.17 dB |
| 1.000 GHz | 3.000 GHz | 1.000 MHz | 1.63009 GHz | -35.01 dBm | -22.01 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93326 GHz | -54.66 dBm | -41.66 dB |
| 7.000 GHz | 9.000 GHz | 1.000 MHz | 7.04324 GHz | -55.83 dBm | -42.83 dB |

Date: 21.NOV.2025 02:50:22

# Frequency Stability

| Test Conditions | | LTE Band 26 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0098 | PASS |
| 40 | Normal Voltage | 0.0099 | |
| 30 | Normal Voltage | 0.0117 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0111 | |
| 0 | Normal Voltage | 0.0068 | |
| -10 | Normal Voltage | 0.0062 | |
| -20 | Normal Voltage | 0.0107 | |
| -30 | Normal Voltage | 0.0046 | |
| 20 | Maximum Voltage | 0.0004 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Minimum Voltage | 0.0089 | |

**Note:**

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.

| Test Conditions | | LTE Band 26 (QPSK) / Low Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 15MHz | 2.5ppm |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0060 | PASS |
| 40 | Normal Voltage | 0.0023 | |
| 30 | Normal Voltage | 0.0082 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0125 | |
| 0 | Normal Voltage | 0.0027 | |
| -10 | Normal Voltage | 0.0032 | |
| -20 | Normal Voltage | 0.0147 | |
| -30 | Normal Voltage | 0.0155 | |
| 20 | Maximum Voltage | 0.0118 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Minimum Voltage | 0.0068 | |

**Note:**

1. Normal Voltage = 3.9 V.；Minimum Voltage = 3.6 V.；Maximum Voltage = 4.4 V.

# LTE Band 26_Part 90S

## Peak-to-Average Ratio

| Mode | LTE Band 26 / 15MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | 16QAM | 64QAM | 256QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Full RB | Full RB | Result |
| Middle CH | 4.75 | 5.57 | 5.91 | 6.46 | PASS |

| Mode | LTE Band 26 / 1.4MHz | | |
|---|---|---|---|
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.72 | 5.07 | PASS |
| Mode | LTE Band 26 / 3MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.64 | 5.59 | PASS |
| Mode | LTE Band 26 / 5MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.70 | 5.51 | PASS |
| Mode | LTE Band 26 / 10MHz | | |
| Mod. | QPSK | 16QAM | Limit: 13dB |
| RB Size | Full RB | Full RB | Result |
| Middle CH | 4.49 | 5.45 | PASS |