# FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Motorola Mobility LLC |
| EQUIPMENT | : | Mobile Cellular Phone |
| BRAND NAME | : | Motorola |
| MODEL NAME | : | XT2163-1, XT2163-2, XT2163-6, XT2163-2PP, XT2163-7 |
| FCC ID | : | IHDT56ZX1 |
| STANDARD | : | 47 CFR Part 2, 27(D) |
| CLASSIFICATION | : | PCS Licensed Transmitter Held to Ear (PCE) |
| TEST DATE(S) | : | Jul. 26, 2021 ~ Jul. 27, 2021 |

**We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.**

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

**Reviewed by: Derreck Chen / Supervisor**

**Approved by: Eric Shih / Manager**

ACCREDITED Cert #5145.01

***Sporton International (ShenZhen) Inc.***

***1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055***

***People's Republic of China***

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# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FG151921-01D | Rev. 01 | Initial issue of report | Aug. 03, 2021 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| 3.4 | §2.1046 | Conducted Output Power | Reporting Only | PASS | - |
| 3.5 | - | Peak-to-Average Ratio | <13dB | N/A | Reporting only |
| 3.6 | §27.50 (a)(3) | EIRP | EIRP < 250mW/5MHz | PASS | - |
| 3.7 | §2.1049 | Occupied Bandwidth | Reporting Only | PASS | - |
| 3.8 | §2.1051<br>§27.53 (a)(4) | Conducted Band Edge Measurement | Refer standard | PASS | - |
| 3.9 | §2.1051<br>§27.53 (a)(4) | Conducted Spurious Emission | < $70+10\log_{10}$(P[Watts]) | PASS | - |
| 3.10 | §2.1055<br>§27.54 | Frequency Stability Temperature & Voltage | Within the band | PASS | - |
| 4.4 | §2.1053<br>§27.53 (a)(4) | Radiated Spurious Emission | < $70+10\log_{10}$(P[Watts]) | PASS | Under limit 11.84 dB at 11527.500 MHz |

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

# 1 General Description

## 1.1 Applicant

**Motorola Mobility LLC**
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.2 Manufacturer

**Motorola Mobility LLC**
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

## 1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Mobile Cellular Phone |
| **Brand Name** | Motorola |
| **Model Name** | XT2163-1, XT2163-2, XT2163-6, XT2163-2PP, XT2163-7 |
| **FCC ID** | IHDT56ZX1 |
| **IMEI Code** | Conducted: 358385280005615<br>Radiation: 358385280006100 |
| **HW Version** | DVT2 |
| **SW Version** | RRH31.Q3-36 |
| **EUT Stage** | Identical Prototype |

## 1.4 Product Specification of Equipment Under Test

| Product Feature | |
|---|---|
| **Tx Frequency** | LTE Band 30 : 2305 MHz ~ 2315 MHz |
| **Rx Frequency** | LTE Band 30 : 2350 MHz ~ 2360 MHz |
| **Bandwidth** | 5MHz / 10MHz |
| **Maximum Output Power to Antenna** | **Bottom Antenna:** LTE Band 30 : 22.51 dBm<br>**Top Antenna:** LTE Band 30 : 21.38 dBm |
| **Antenna Gain** | LTE Band 30 : -2.50 dBi |
| **Type of Modulation** | QPSK / 16QAM / 64QAM |

Note: The Maximum EIRP is calculated from Max Output power and Max antenna gain, only the maximum EIRP is shown in the report.

## 1.5 Modification of EUT

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

## 1.6 Maximum EIRP Power and Emission Designator

| LTE Band 30 | | QPSK | | 16QAM/64QAM | |
|---|---|---|---|---|---|
| **BW (MHz)** | **Frequency Range (MHz)** | **Maximum EIRP(W)** | **Emission Designator (99%OBW)** | **Maximum EIRP(W)** | **Emission Designator (99%OBW)** |
| **5** | 2307.5 ~ 2312.5 | 0.0989 | 4M49G7D | 0.0843 | 4M51W7D |
| **10** | 2310.0 | 0.1002 | 9M05G7D | 0.0818 | 9M03W7D |

Note: All modulations (QPSK/16QAM/64QAM) have been tested, and only the worst test results of PSK & QAM are shown in the report .

## 1.7 Specification of Accessory

| Specification of Accessory | | | | |
|---|---|---|---|---|
| **AC Adapter 1** | **Brand Name** | Motorola(Aohai) | **Model Name** | MC-101 |
| **AC Adapter 2** | **Brand Name** | Motorola(Salcomp) | **Model Name** | MC-101 |
| **AC Adapter 3** | **Brand Name** | Motorola(Chenyang) | **Model Name** | MC-101 |
| **Battery** | **Brand Name** | Motorola(ATL) | **Model Name** | NT40 |
| **USB Cable 1** | **Brand Name** | Motorola(Saibao) | **Model Name** | SC18C24367 |
| **USB Cable 2** | **Brand Name** | Motorola(Cabletech) | **Model Name** | SC18C49697 |
| **USB Cable 3** | **Brand Name** | Motorola(Luxshare) | **Model Name** | SC18C24368 |

## 1.8 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| | | | |
|---|---|---|---|
| **Test Firm** | Sporton International (Shenzhen) Inc. | | |
| **Test Site Location** | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China<br>TEL: +86-755-86379589<br>FAX: +86-755-86379595 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | TH01-SZ | CN1256 | 421272 |

| | | | |
|---|---|---|---|
| **Test Firm** | Sporton International (Shenzhen) Inc. | | |
| **Test Site Location** | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103<br>TEL: +86-755-33202398 | | |
| **Test Site No.** | **Sporton Site No.** | **FCC Designation No.** | **FCC Test Firm Registration No.** |
| | 03CH03-SZ | CN1256 | 421272 |

## 1.9 Test Software

| Item | Site | Manufacturer | Name | Version |
|---|---|---|---|---|
| 1. | 03CH03-SZ | AUDIX | E3 | 6.2009-8-24 |

## 1.10 Applied Standards

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

- 47 CFR Part 2, Part 27(D)
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
-

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

# 2 Test Configuration of Equipment Under Test

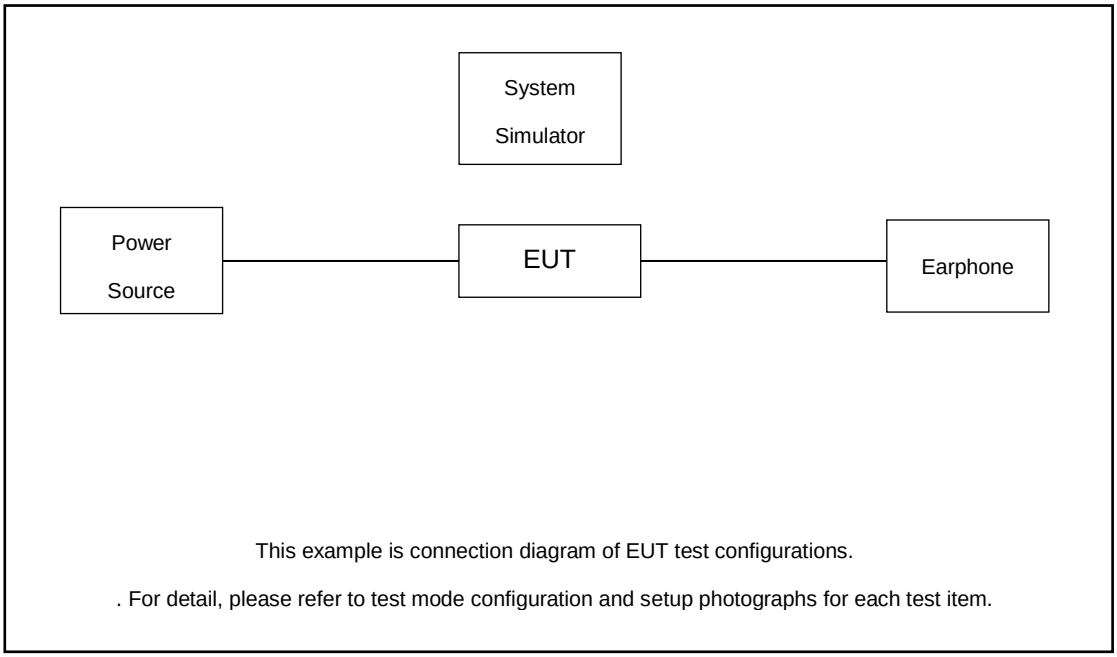
## 2.1 Test Mode

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.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

| Conducted Test Cases | Band | Bandwidth (MHz) | | | | | | Modulation | | | RB # | | | Test Channel | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 64QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 30 | - | - | V | | - | - | V | V | V | V | V | V | V | V | V |
| | | - | - | | V | - | - | V | V | V | V | V | V | | V | |
| Peak-to-Average Ratio | 30 | - | - | | V | - | - | V | V | V | V | | V | | V | |
| E.I.R.P | 30 | - | - | V | | - | - | V | V | V | V | | | V | V | V |
| | | - | - | | V | - | - | V | V | V | V | | | | V | |
| 26dB and 99% Bandwidth | 30 | - | - | V | | - | - | V | V | V | | | V | V | V | V |
| | | - | - | | V | - | - | V | V | V | | | V | | V | |
| Conducted Band Edge | 30 | - | - | V | | - | - | V | V | V | V | | V | V | | V |
| | | - | - | | V | - | - | V | V | V | V | | V | | V | |
| Conducted Spurious Emission | 30 | - | - | V | | - | - | V | V | V | V | | | V | V | V |
| | | - | - | | V | - | - | V | V | V | V | | | | V | |
| Frequency Stability | 30 | - | - | | V | - | - | V | | | | | V | | V | |
| Radiated Spurious Emission | 30 | - | - | V | | - | - | V | | | V | | | V | V | V |
| | | | | | V | | | V | | | V | | | | V | |
| Note | 1. The mark “v “ means that this configuration is chosen for testing<br>2. The mark “-“ means that this bandwidth is not supported.<br>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. | | | | | | | | | | | | | | | |

## 2.2 Connection Diagram of Test System




## 2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Power Supply | GWINSTEK | PSS-2002 | N/A | N/A | Unshielded, 1.8 m |
| 2. | Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded, 1.8 m |
| 3. | Earphone | Motorola | S88731AA1 | N/A | Unshielded,1.2m | 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 5.0 dB and 10dB attenuator.

Example :

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

= 5.0 + 10 = 15.0 (dB)

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

| LTE Band 30 Channel and Frequency List | | | | |
|---|---|---|---|---|
| **BW [MHz]** | **Channel/Frequency(MHz)** | **Lowest** | **Middle** | **Highest** |
| 10 | Channel | - | 27710 | - |
| | Frequency | - | 2310 | - |
| 5 | Channel | 27685 | 27710 | 27735 |
| | Frequency | 2307.5 | 2310 | 2312.5 |

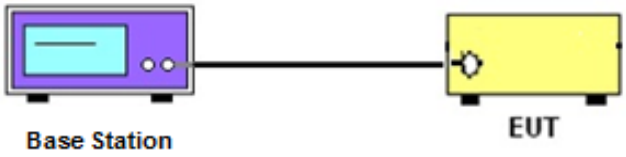
# 3 Conducted Test Items

## 3.1 Measuring Instruments

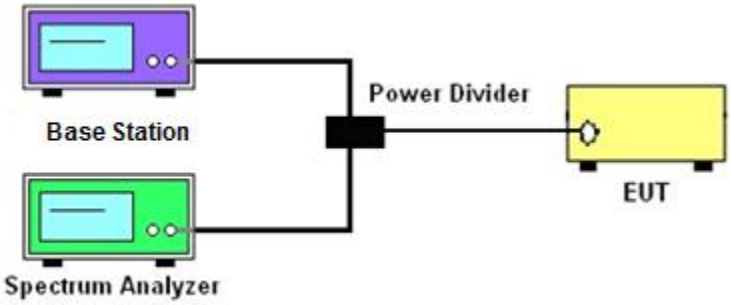
See list of measuring instruments of this test report.

## 3.2 Test Setup

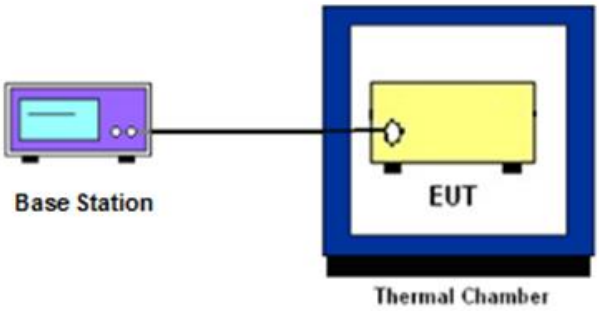
### 3.2.1 Conducted Output Power




### 3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission




### 3.2.3 Frequency Stability




## 3.3 Test Result of Conducted Test

Please refer to Appendix A.

## 3.4 Conducted Output Power Measurement

### 3.4.1 Description of the Conducted Output Power Measurement

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

### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

## 3.5 Peak-to-Average Ratio

### 3.5.1 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.

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

# 3.6 EIRP

## 3.6.1 Description of EIRP

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, *except that* for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

## 3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. 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

# 3.7 Occupied Bandwidth

## 3.7.1 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.

## 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

# 3.8 Conducted Band Edge Measurement

## 3.8.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

## 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

## 3.9 Conducted Spurious Emission Measurement

### 3.9.1 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 70 + 10 log (P) dB.

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

### 3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [70 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
    = -40dBm

# 3.10 Frequency Stability Measurement

## 3.10.1 Description of Frequency Stability Measurement

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.

## 3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

## 3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

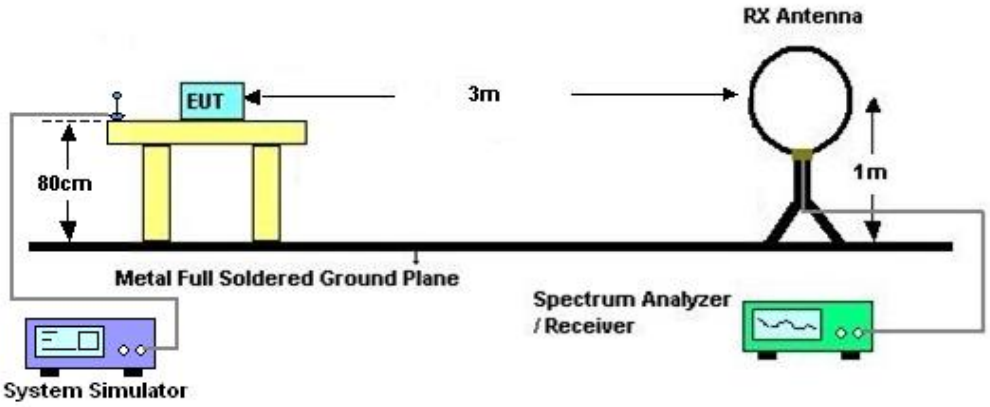
# 4 Radiated Test Items

## 4.1 Measuring Instruments

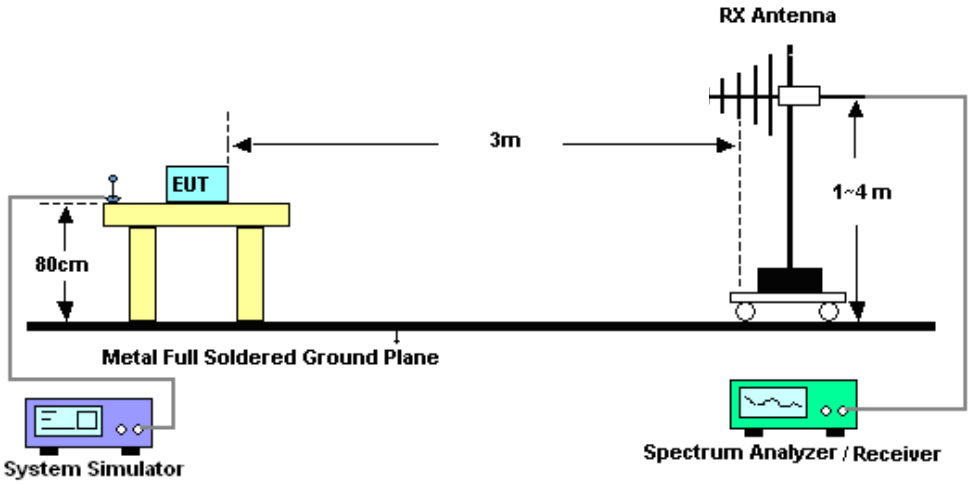
See list of measuring instruments of this test report.

## 4.2 Test Setup

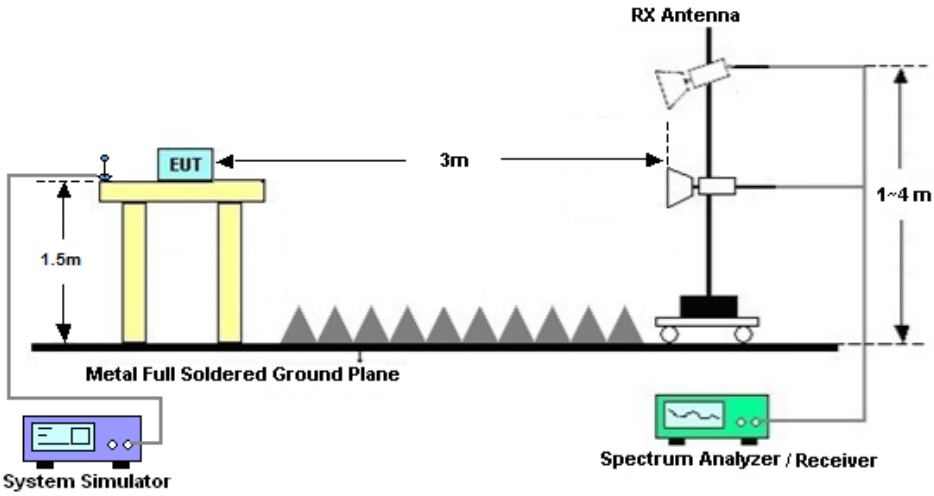
### 4.2.1 For radiated test below 30MHz




### 4.2.2 For radiated test from 30MHz to 1GHz



### 4.2.3 For radiated test above 1GHz




## 4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.

## 4.4 Radiated Spurious Emission Measurement

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

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

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [70 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [70 + 10log(P)] (dB)
    = -40dBm.

# 5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Spectrum Analyzer | R&S | FSV40 | 101078 | 10Hz~40GHz | Apr. 08, 2021 | Jul. 26, 2021 | Apr. 07, 2022 | Conducted (TH01-SZ) |
| DC Power Supply | TTI | PL330P | 290070 | Max 32V，3A | Oct. 15, 2020 | Jul. 26, 2021 | Oct. 14, 2021 | Conducted (TH01-SZ) |
| Power Divider | TOJOIN | PS-2SM-04265 | 60.06.020.0077 | 0.4GHz~26.5GHz | Dec. 26, 2020 | Jul. 26, 2021 | Dec. 25, 2021 | Conducted (TH01-SZ) |
| Thermal Chamber | Ten Billion Hongzhangroup | LP-150U | H2014081803 | -40~+150°C | Jul. 14, 2021 | Jul. 26, 2021 | Jul. 13, 2022 | Conducted (TH01-SZ) |
| EMI Test Receiver&SA | KEYSIGHT | N9038A | MY54450083 | 20Hz~8.4GHz | Apr. 17, 2021 | Jul. 27, 2021 | Apr. 16, 2022 | Radiation (03CH03-SZ) |
| Loop Antenna | R&S | HFH2-Z2 | 100354 | 9kHz~30MHz | Jun. 22, 2021 | Jul. 27, 2021 | Jun. 21, 2022 | Radiation (03CH03-SZ) |
| EXA Spectrum Anaiyzer | KEYSIGHT | N9010A | MY55150246 | 10Hz~44GHz; | Apr. 17, 2021 | Jul. 27, 2021 | Apr. 16, 2022 | Radiation (03CH03-SZ |
| Bilog Antenna | TeseQ | CBL6112D | 35408 | 30MHz-2GHz | Jun. 21, 2021 | Jul. 27, 2021 | Jun. 20, 2022 | Radiation (03CH03-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-1355 | 1GHz~18GHz | Apr. 25, 2021 | Jul. 27, 2021 | Apr. 24, 2022 | Radiation (03CH03-SZ) |
| Amplifier | Burgeon | BPA-530 | 102211 | 0.01Hz ~3000MHz | Oct. 17, 2020 | Jul. 27, 2021 | Oct. 16, 2021 | Radiation (03CH03-SZ) |
| HF Amplifier | MITEQ | TTA1840-35-HG | 1871923 | 18GHz~40GHz | Jul. 20, 2021 | Jul. 27, 2021 | Jul. 19, 2022 | Radiation (03CH03-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18Ghz-40GHz | Apr. 23, 2021 | Jul. 27, 2021 | Apr. 22, 2022 | Radiation (03CH03-SZ) |
| Amplifier | Agilent Technologies | 83017A | MY39501302 | 500MHz~26.5GHz | Dec. 25, 2020 | Jul. 27, 2021 | Dec. 24, 2021 | Radiation (03CH03-SZ) |
| AC Power Source | Chroma | 61601 | 616010001985 | N/A | NCR | Jul. 27, 2021 | NCR | Radiation (03CH03-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Jul. 27, 2021 | NCR | Radiation (03CH03-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Jul. 27, 2021 | NCR | Radiation (03CH03-SZ) |

NCR: No Calibration Required

# 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.0dB** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.6dB** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **3.8dB** |

**---------- THE END ----------**

# Appendix A. Test Results of Conducted Test

## Conducted Output Power(Average power)

**Bottom Antenna:**

| LTE Band 30 | | | | | | |
|---|---|---|---|---|---|---|
| BW [MHz] | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. |
| Channel | | | | | 27710 | |
| Frequency (MHz) | | | | | 2310 | |
| 10 | QPSK | 1 | 0 | | 22.51 | |
| 10 | QPSK | 1 | 25 | | 22.32 | |
| 10 | QPSK | 1 | 49 | | 22.14 | |
| 10 | QPSK | 25 | 0 | | 21.38 | |
| 10 | QPSK | 25 | 12 | | 21.39 | |
| 10 | QPSK | 25 | 25 | | 21.31 | |
| 10 | QPSK | 50 | 0 | | 21.38 | |
| 10 | 16QAM | 1 | 0 | | 21.59 | |
| 10 | 16QAM | 1 | 25 | | 21.63 | |
| 10 | 16QAM | 1 | 49 | | 21.47 | |
| 10 | 16QAM | 25 | 0 | | 20.41 | |
| 10 | 16QAM | 25 | 12 | | 20.37 | |
| 10 | 16QAM | 25 | 25 | | 20.35 | |
| 10 | 16QAM | 50 | 0 | | 20.42 | |
| 10 | 64QAM | 1 | 0 | | 20.57 | |
| 10 | 64QAM | 1 | 25 | | 20.58 | |
| 10 | 64QAM | 1 | 49 | | 20.36 | |
| 10 | 64QAM | 25 | 0 | | 19.41 | |
| 10 | 64QAM | 25 | 12 | | 19.37 | |
| 10 | 64QAM | 25 | 25 | | 19.33 | |
| 10 | 64QAM | 50 | 0 | | 19.38 | |
| Channel | | | | 27685 | 27710 | 27735 |
| Frequency (MHz) | | | | 2307.5 | 2310 | 2312.5 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 5 | QPSK | 1 | 0 | 22.27 | 22.23 | 22.19 |
| 5 | QPSK | 1 | 12 | 22.42 | 22.45 | 22.44 |
| 5 | QPSK | 1 | 24 | 22.13 | 22.15 | 22.15 |
| 5 | QPSK | 12 | 0 | 21.36 | 21.32 | 21.32 |
| 5 | QPSK | 12 | 7 | 21.44 | 21.37 | 21.38 |
| 5 | QPSK | 12 | 13 | 21.34 | 21.28 | 21.29 |
| 5 | QPSK | 25 | 0 | 21.36 | 21.32 | 21.33 |
| 5 | 16QAM | 1 | 0 | 21.57 | 21.51 | 21.49 |
| 5 | 16QAM | 1 | 12 | 21.76 | 21.69 | 21.73 |
| 5 | 16QAM | 1 | 24 | 21.41 | 21.43 | 21.43 |
| 5 | 16QAM | 12 | 0 | 20.38 | 20.34 | 20.34 |
| 5 | 16QAM | 12 | 7 | 20.45 | 20.39 | 20.38 |
| 5 | 16QAM | 12 | 13 | 20.37 | 20.34 | 20.31 |
| 5 | 16QAM | 25 | 0 | 20.40 | 20.36 | 20.36 |
| 5 | 64QAM | 1 | 0 | 20.49 | 20.47 | 20.43 |
| 5 | 64QAM | 1 | 12 | 20.76 | 20.74 | 20.67 |
| 5 | 64QAM | 1 | 24 | 20.40 | 20.41 | 20.37 |
| 5 | 64QAM | 12 | 0 | 19.42 | 19.39 | 19.38 |
| 5 | 64QAM | 12 | 7 | 19.48 | 19.46 | 19.44 |
| 5 | 64QAM | 12 | 13 | 19.42 | 19.37 | 19.35 |
| 5 | 64QAM | 25 | 0 | 19.39 | 19.35 | 19.36 |

# EIRP

| LTE Band 30 (GT - LC = -2.50 dB) QPSK (dBm/5MHz) | | | |
|---|---|---|---|
| Bandwidth | 5M | | |
| Channel | 27685 | 27710 | 27735 |
| | (Low) | (Mid) | (High) |
| Frequency (MHz) | 2307.5 | 2310 | 2312.5 |
| Conducted Power (dBm) | 22.42 | 22.45 | 22.44 |
| Conducted Power (Watts) | 0.1746 | 0.1758 | 0.1754 |
| EIRP(dBm) | 19.92 | 19.95 | 19.94 |
| EIRP(Watts) | 0.0982 | 0.0989 | 0.0986 |
| Limit | 250mW / 5MHz = 24dBm / 5MHz | | PASS |

| LTE Band 30 (GT - LC = -2.50 dB) QPSK (dBm/5MHz) | | | |
|---|---|---|---|
| Bandwidth | 10M | | |
| Channel | | 27710 | |
| | | (Mid) | |
| Frequency (MHz) | | 2310 | |
| Conducted Power (dBm) | | 22.51 | |
| Conducted Power (Watts) | | 0.1782 | |
| EIRP(dBm) | | 20.01 | |
| EIRP(Watts) | | 0.1002 | |
| Limit | 250mW / 5MHz = 24dBm / 5MHz | | PASS |

| LTE Band 30 (GT - LC = -2.50 dB) 16QAM (dBm/5MHz) | | | |
|---|---|---|---|
| Bandwidth | 5M | | |
| Channel | 27685 | 27710 | 27735 |
| | (Low) | (Mid) | (High) |
| Frequency (MHz) | 2307.5 | 2310 | 2312.5 |
| Conducted Power (dBm) | 21.76 | 21.69 | 21.73 |
| Conducted Power (Watts) | 0.1500 | 0.1476 | 0.1489 |
| EIRP(dBm) | 19.26 | 19.19 | 19.23 |
| EIRP(Watts) | 0.0843 | 0.0830 | 0.0838 |
| Limit | 250mW / 5MHz = 24dBm / 5MHz | | PASS |

| LTE Band 30 (GT - LC = -2.50 dB) 16QAM (dBm/5MHz) | | | |
|---|---|---|---|
| Bandwidth | 10M | | |
| Channel | | 27710 | |
| | | (Mid) | |
| Frequency (MHz) | | 2310 | |
| Conducted Power (dBm) | | 21.63 | |
| Conducted Power (Watts) | | 0.1455 | |
| EIRP(dBm) | | 19.13 | |
| EIRP(Watts) | | 0.0818 | |
| Limit | 250mW / 5MHz = 24dBm / 5MHz | | PASS |

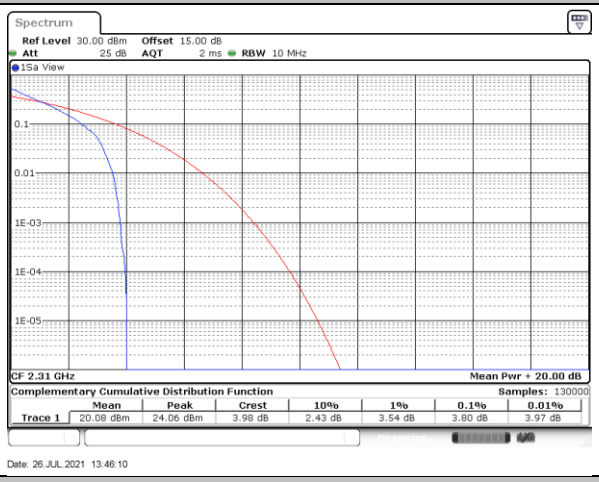
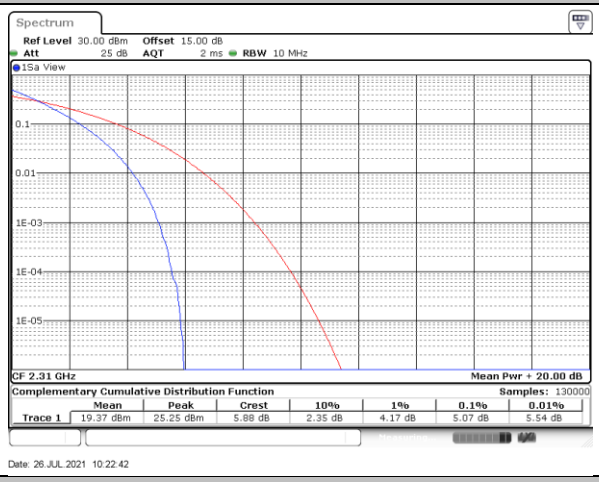
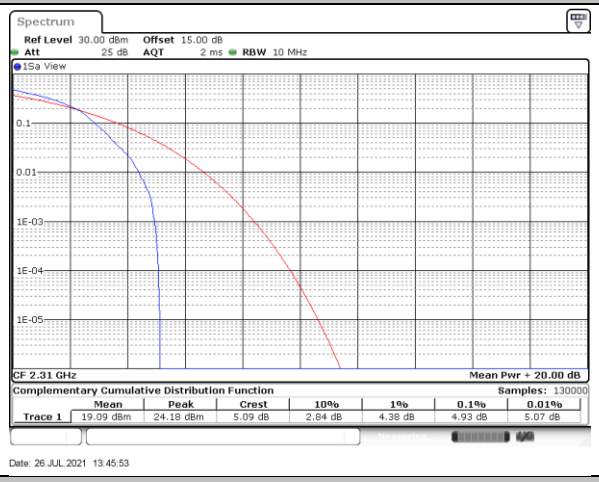
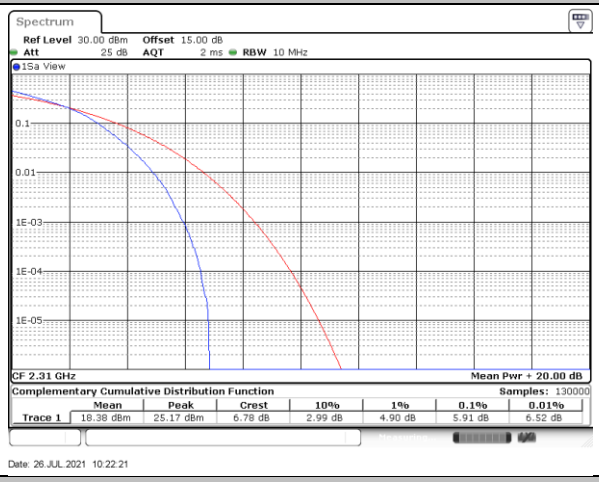
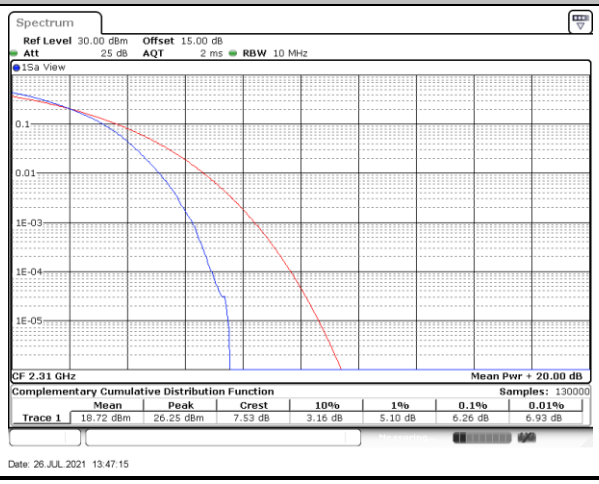
| LTE Band 30 (GT - LC = -2.50 dB) 64QAM (dBm/5MHz) | | | |
|---|---|---|---|
| **Bandwidth** | **5M** | | |
| **Channel** | **27685** | **27710** | **27735** |
| | **(Low)** | **(Mid)** | **(High)** |
| **Frequency (MHz)** | **2307.5** | **2310** | **2312.5** |
| **Conducted Power (dBm)** | 20.76 | 20.74 | 20.67 |
| **Conducted Power (Watts)** | 0.1191 | 0.1186 | 0.1167 |
| **EIRP(dBm)** | 18.26 | 18.24 | 18.17 |
| **EIRP(Watts)** | 0.0670 | 0.0667 | 0.0656 |
| **Limit** | **250mW / 5MHz = 24dBm / 5MHz** | | **PASS** |

| LTE Band 30 (GT - LC = -2.50 dB) 64QAM (dBm/5MHz) | | | |
|---|---|---|---|
| **Bandwidth** | **10M** | | |
| **Channel** | | **27710** | |
| | | **(Mid)** | |
| **Frequency (MHz)** | | **2310** | |
| **Conducted Power (dBm)** | | 20.58 | |
| **Conducted Power (Watts)** | | 0.1143 | |
| **EIRP(dBm)** | | 18.08 | |
| **EIRP(Watts)** | | 0.0643 | |
| **Limit** | **250mW / 5MHz = 24dBm / 5MHz** | | **PASS** |

# LTE Band 30

## Peak-to-Average Ratio

| Mode | LTE Band 30 / 10MHz | | | | |
|---|---|---|---|---|---|
| Mod. | QPSK | | 16QAM | | Limit: 13dB |
| RB Size | 1RB | Full RB | 1RB | Full RB | Result |
| Lowest CH | - | - | - | - | PASS |
| Middle CH | 3.80 | 5.07 | 4.93 | 5.91 | |
| Highest CH | - | - | - | - | |
| Mode | LTE Band 30 / 10MHz | | | | |
| Mod. | 64QAM | | | | Limit: 13dB |
| RB Size | 1RB | Full RB | | | Result |
| Lowest CH | - | - | - | - | PASS |
| Middle CH | 5.62 | 6.26 | - | - | |
| Highest CH | - | - | - | - | |

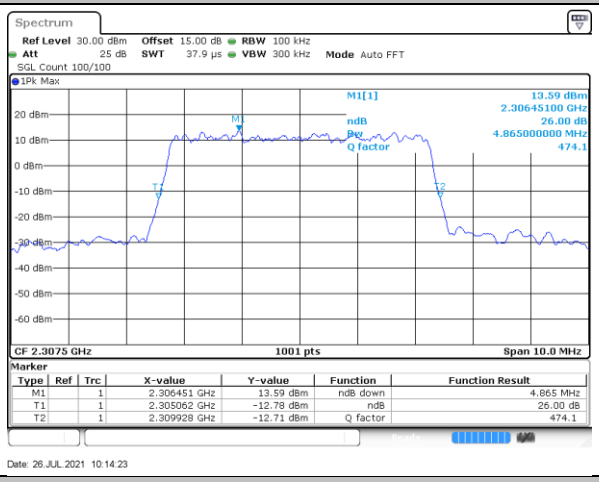
| LTE Band 30 / 10MHz / QPSK | |
|---|---|
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **LTE Band 30 / 10MHz / 16QAM** | |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |
| **LTE Band 30 / 10MHz / 64QAM** | |
| **Middle Channel / 1RB** | **Middle Channel / Full RB** |
|  |  |

# 26dB Bandwidth

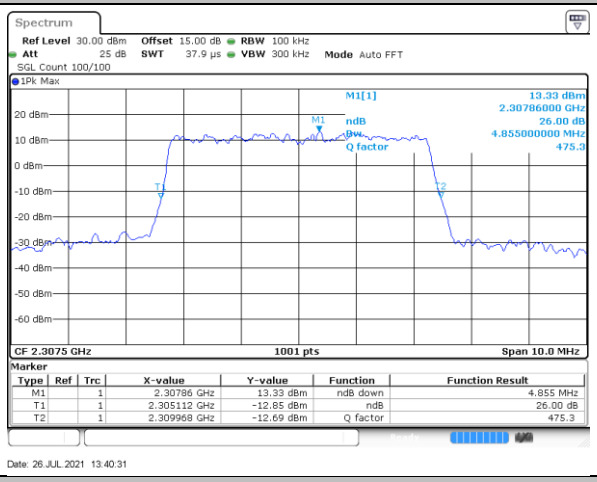
| Mode | LTE Band 30 : 26dB BW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.87 | 4.86 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.88 | 4.83 | 9.75 | 9.83 | - | - | - | - |
| Highest CH | - | - | - | - | 4.78 | 4.85 | - | - | - | - | - | - |
| Mode | LTE Band 30 : 26dB BW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.89 | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.80 | - | 9.79 | - | - | - | - | - |
| Highest CH | - | - | - | - | 4.87 | - | - | - | - | - | - | - |

## LTE Band 30

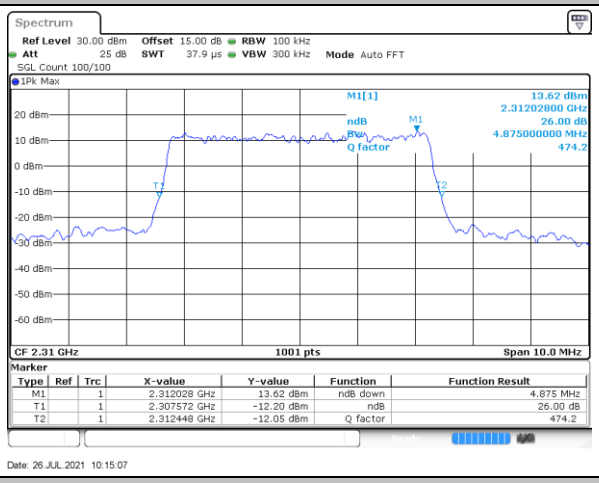
### Lowest Channel / 5MHz / QPSK



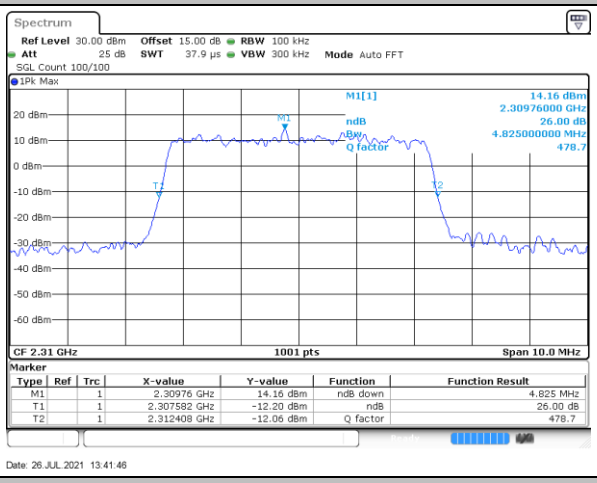

### Lowest Channel / 5MHz / 16QAM



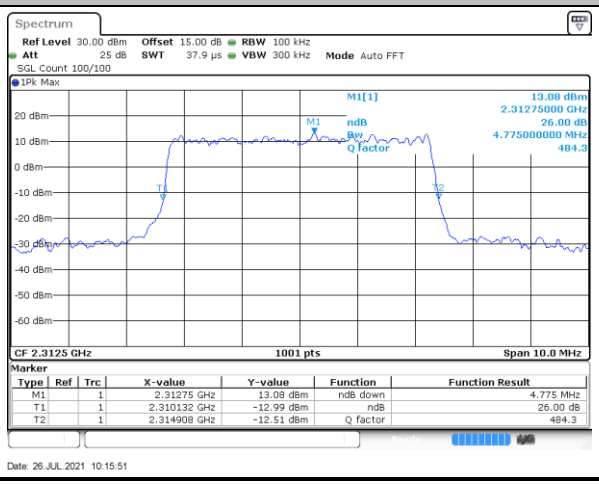

### Middle Channel / 5MHz / QPSK



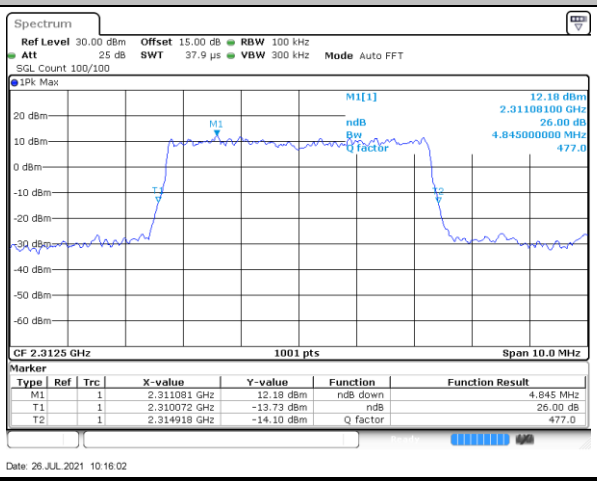

### Middle Channel / 5MHz / 16QAM



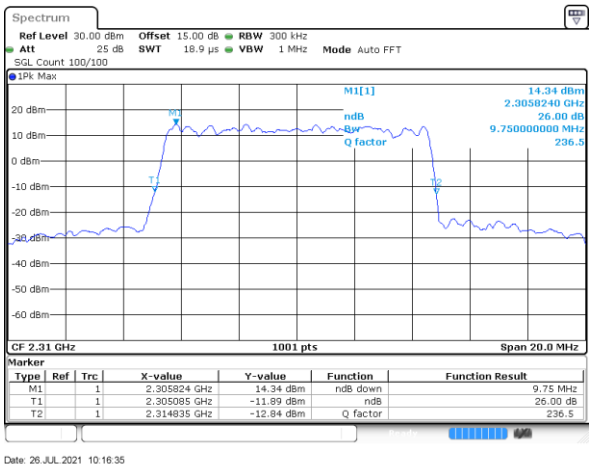

### Highest Channel / 5MHz / QPSK

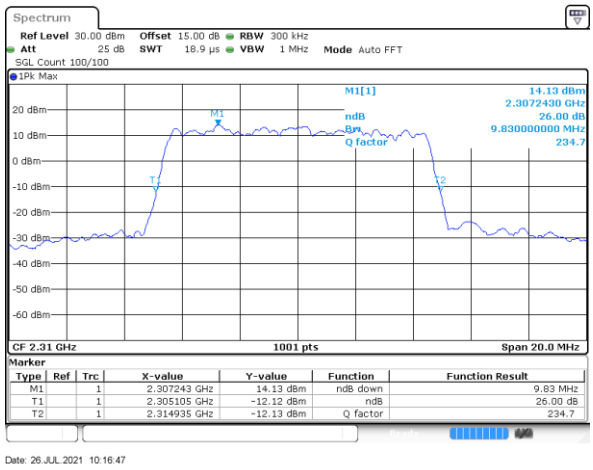



### Highest Channel / 5MHz / 16QAM



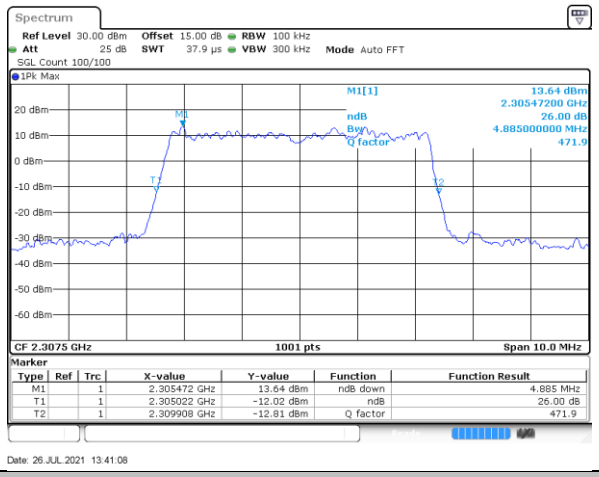
| LTE Band 30 | |
|---|---|
| **Middle Channel / 10MHz / QPSK** | **Middle Channel / 10MHz / 16QAM** |



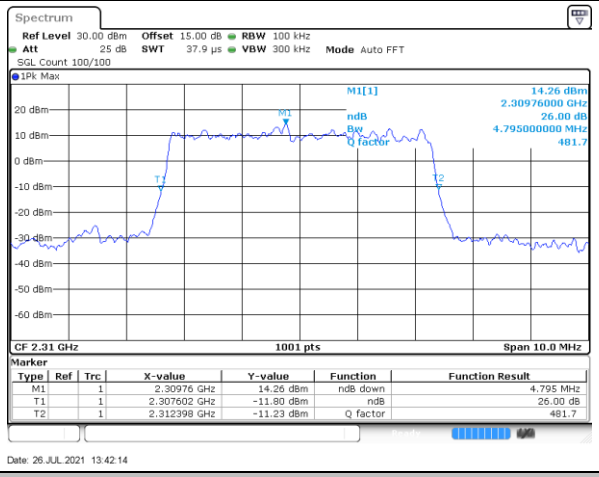



## LTE Band 30

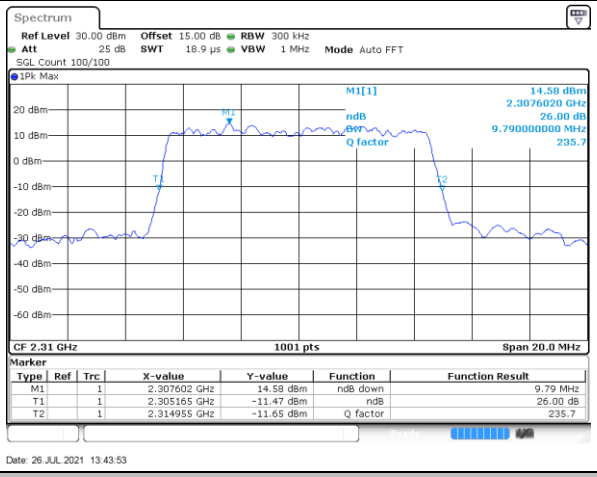
### Lowest Channel / 5MHz / 64QAM



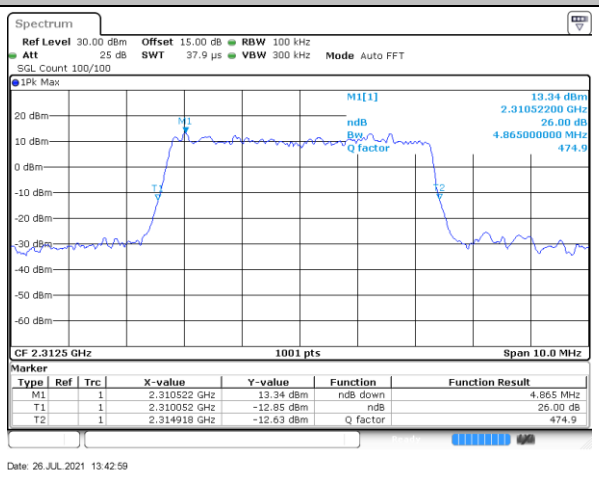

### Middle Channel / 5MHz / 64QAM




### Middle Channel / 10MHz / 64QAM




### Highest Channel / 5MHz / 64QAM

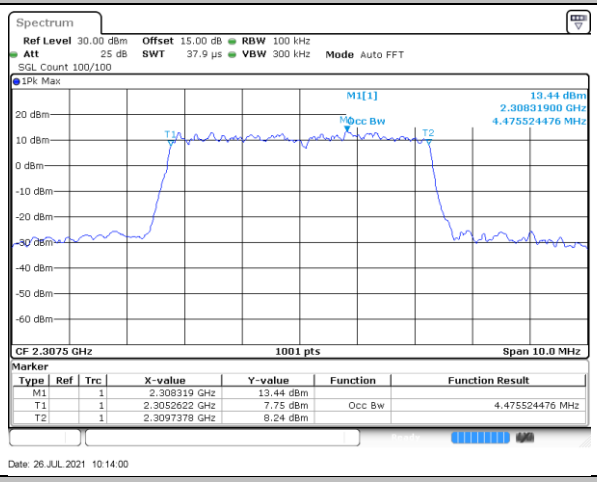


# Occupied Bandwidth

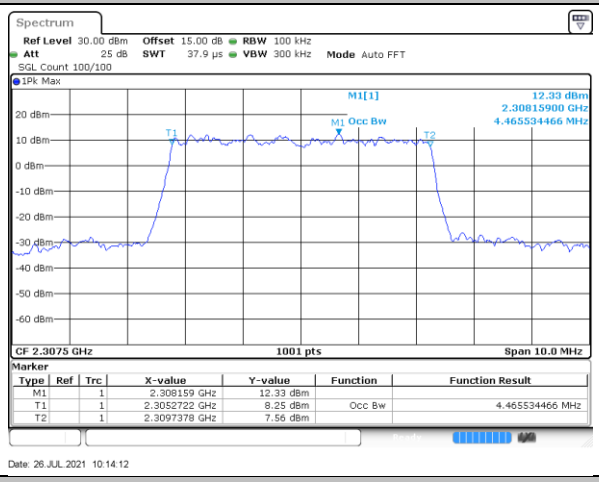
| Mode | LTE Band 30 : 99%OBW(MHz) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK | 16QAM |
| Lowest CH | - | - | - | - | 4.48 | 4.47 | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.49 | 4.48 | 9.05 | 8.99 | - | - | - | - |
| Highest CH | - | - | - | - | 4.47 | 4.48 | - | - | - | - | - | - |
| Mode | LTE Band 26 : 99%OBW(MHz) | | | | | | | | | | | |
| BW | 1.4MHz | | 3MHz | | 5MHz | | 10MHz | | 15MHz | | 20MHz | |
| Mod. | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | | 64QAM | |
| Lowest CH | - | - | - | - | 4.51 | - | - | - | - | - | - | - |
| Middle CH | - | - | - | - | 4.50 | - | 9.03 | - | - | - | - | - |
| Highest CH | - | - | - | - | 4.50 | - | - | - | - | - | - | - |

## LTE Band 30

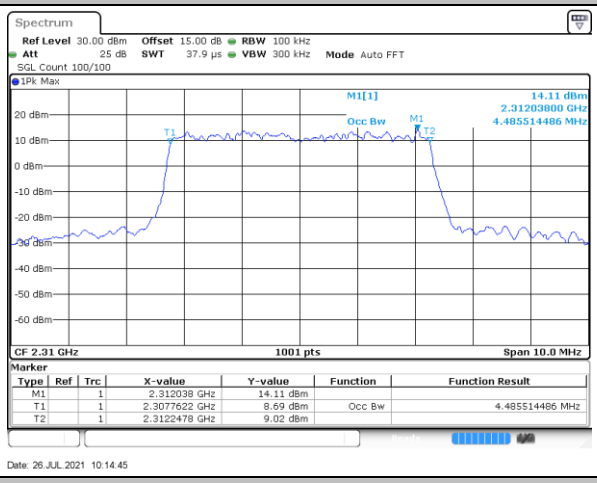
### Lowest Channel / 5MHz / QPSK



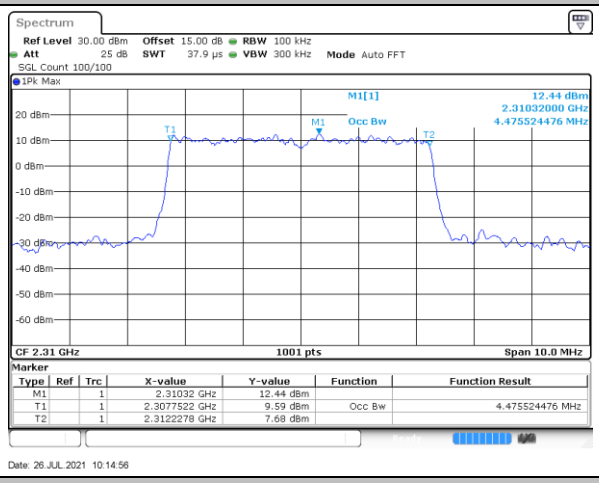

### Lowest Channel / 5MHz / 16QAM



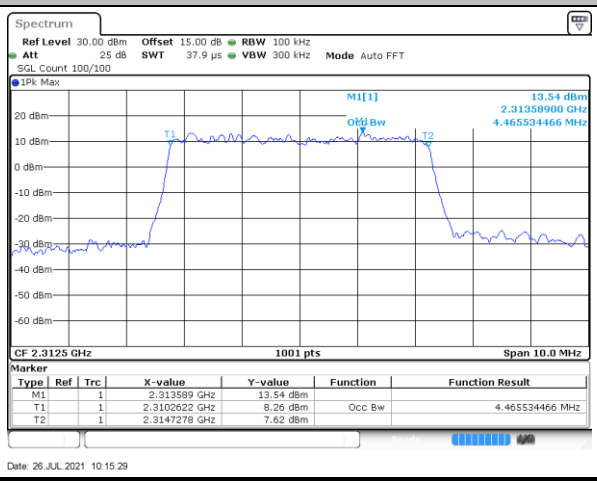

### Middle Channel / 5MHz / QPSK



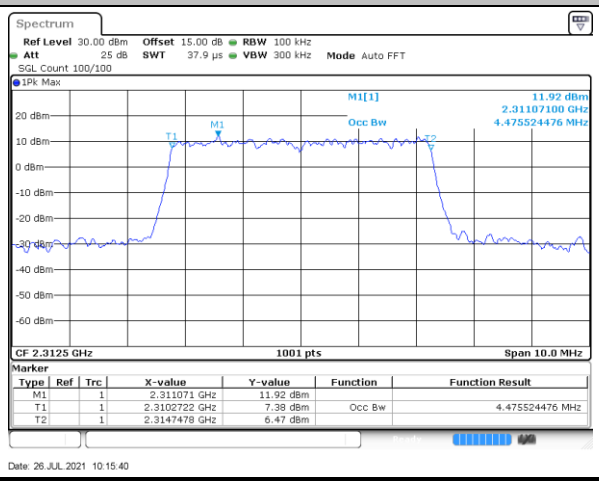

### Middle Channel / 5MHz / 16QAM

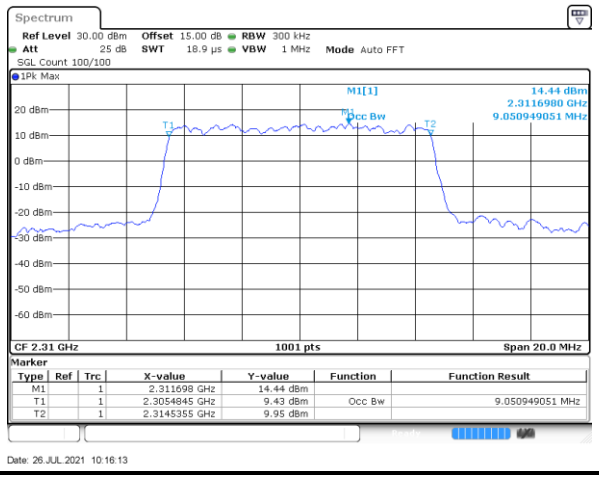
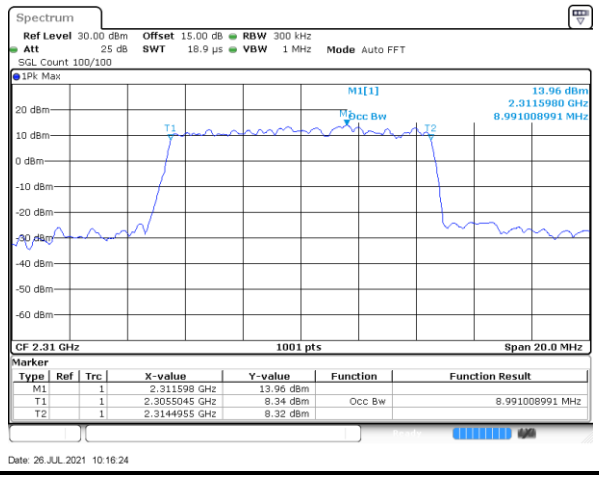


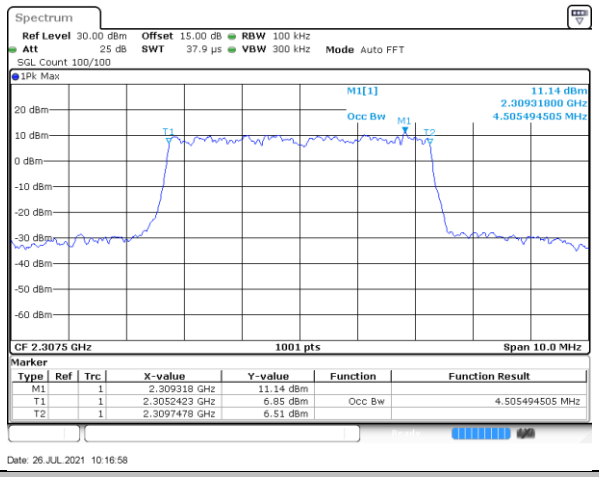
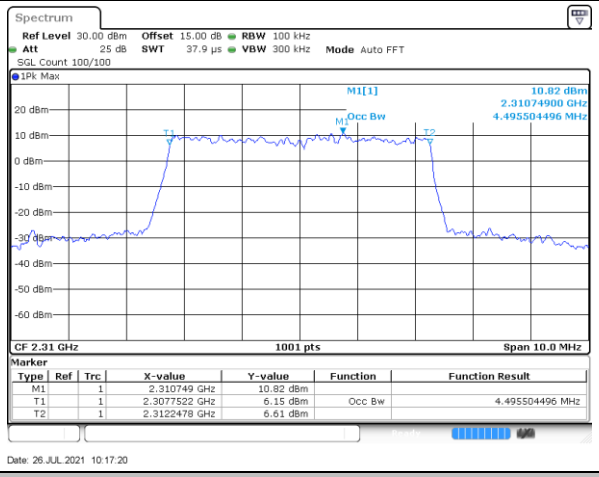
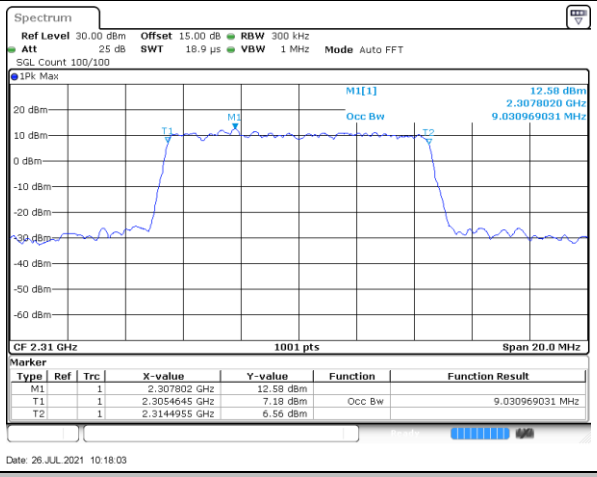
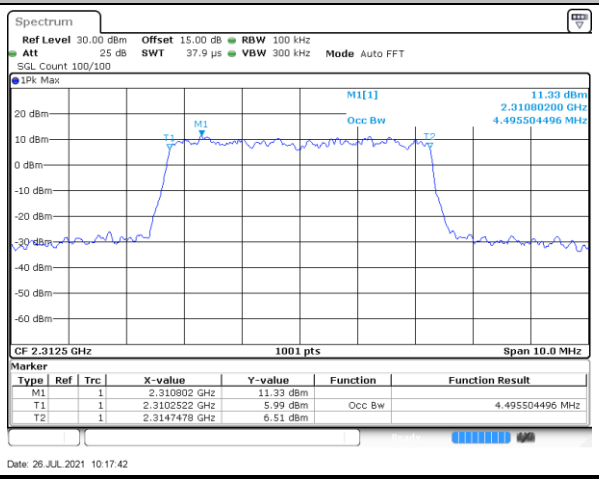

### Highest Channel / 5MHz / QPSK




### Highest Channel / 5MHz / 16QAM



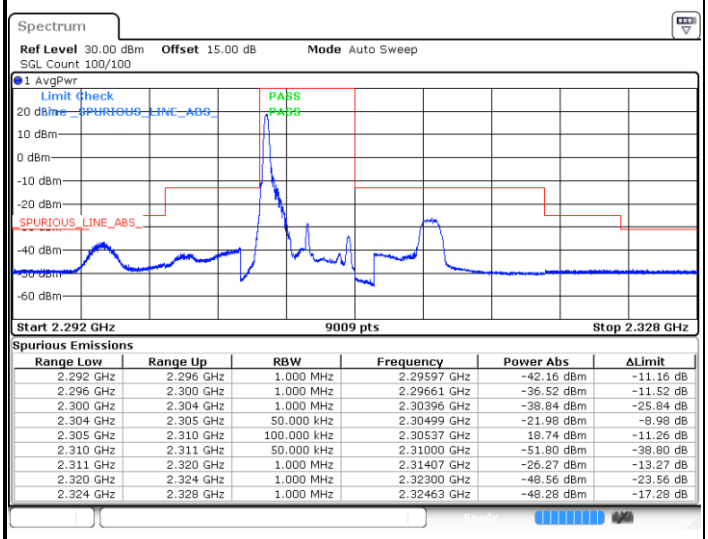
| LTE Band 30 | |
|---|---|
| **Middle Channel / 10MHz / QPSK** | **Middle Channel / 10MHz / 16QAM** |
|  |  |

| LTE Band 30 | |
|---|---|
| **Lowest Channel / 5MHz / 64QAM** | |
|  | |
| **Middle Channel / 5MHz / 64QAM** | **Middle Channel / 10MHz / 64QAM** |
|  |  |
| **Highest Channel / 5MHz / 64QAM** | |
|  | |

# Conducted Band Edge

## LTE Band 30 / 5MHz / QPSK

### Lowest Band Edge / 1 RB

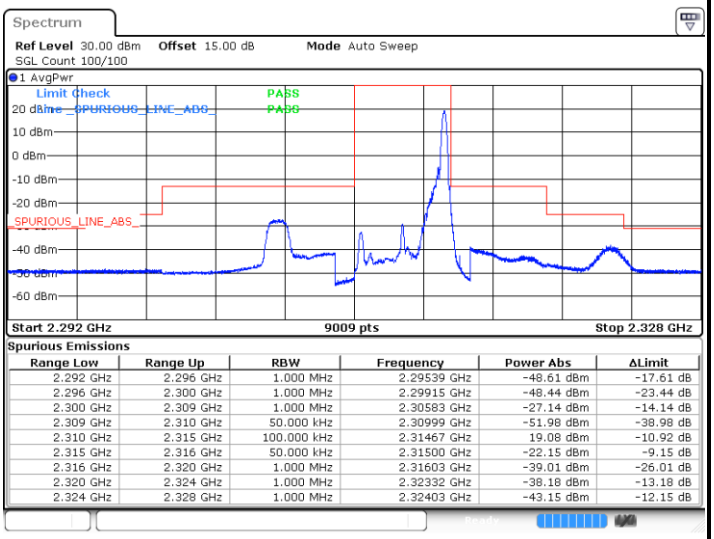



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29597 GHz | -42.16 dBm | -11.16 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29661 GHz | -36.52 dBm | -11.52 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30396 GHz | -38.84 dBm | -25.84 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30499 GHz | -21.98 dBm | -8.98 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30537 GHz | 18.74 dBm | -11.26 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31000 GHz | -51.80 dBm | -38.80 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31407 GHz | -26.27 dBm | -13.27 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32300 GHz | -48.56 dBm | -23.56 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32463 GHz | -48.28 dBm | -17.28 dB |

Date: 26.JUL.2021 10:24:38

### Highest Band Edge / 1 RB

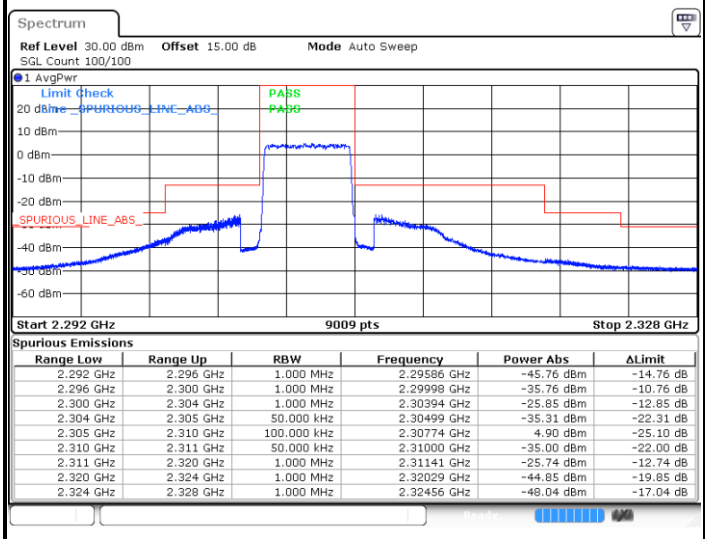



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29539 GHz | -48.61 dBm | -17.61 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29915 GHz | -48.44 dBm | -23.44 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30583 GHz | -27.14 dBm | -14.14 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.30999 GHz | -51.98 dBm | -38.98 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31467 GHz | 19.08 dBm | -10.92 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31500 GHz | -22.15 dBm | -9.15 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31603 GHz | -39.01 dBm | -26.01 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32332 GHz | -38.18 dBm | -13.18 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32403 GHz | -43.15 dBm | -12.15 dB |

Date: 26.JUL.2021 10:30:35

### Lowest Band Edge / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29586 GHz | -45.76 dBm | -14.76 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29998 GHz | -35.76 dBm | -10.76 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30394 GHz | -25.85 dBm | -12.85 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30499 GHz | -35.31 dBm | -22.31 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30774 GHz | 4.90 dBm | -25.10 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31000 GHz | -35.00 dBm | -22.00 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31141 GHz | -25.74 dBm | -12.74 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32029 GHz | -44.85 dBm | -19.85 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32456 GHz | -48.04 dBm | -17.04 dB |

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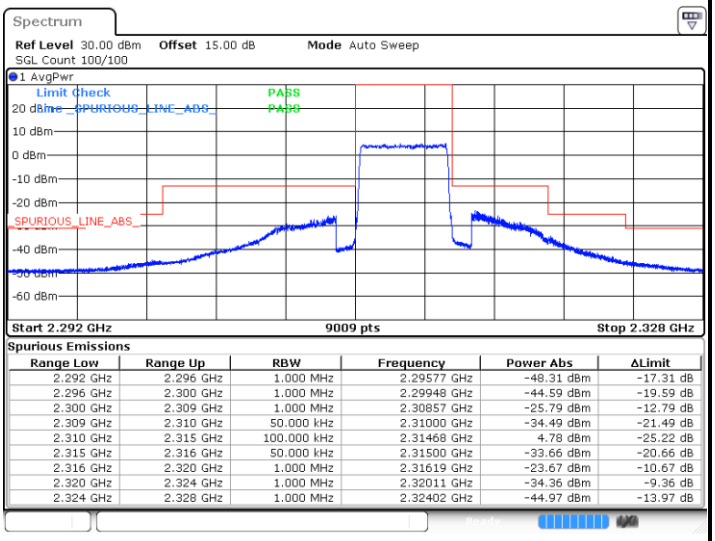
### Highest Band Edge / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29577 GHz | -48.31 dBm | -17.31 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29948 GHz | -44.59 dBm | -19.59 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30857 GHz | -25.79 dBm | -12.79 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.31000 GHz | -34.49 dBm | -21.49 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31468 GHz | 4.78 dBm | -25.22 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31500 GHz | -33.66 dBm | -20.66 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31619 GHz | -23.67 dBm | -10.67 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32011 GHz | -34.36 dBm | -9.36 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32402 GHz | -44.97 dBm | -13.97 dB |

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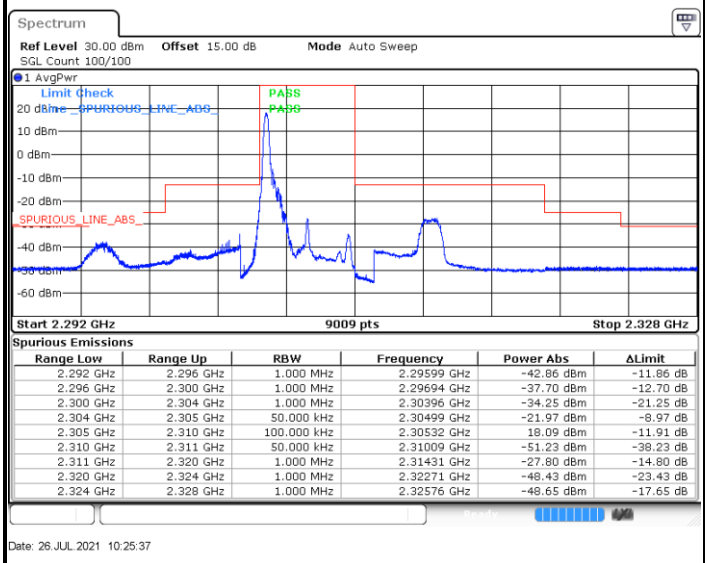
## LTE Band 30 / 5MHz / 16QAM

### Lowest Band Edge / 1RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29599 GHz | -42.86 dBm | -11.86 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29694 GHz | -37.70 dBm | -12.70 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30396 GHz | -34.25 dBm | -21.25 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30499 GHz | -21.97 dBm | -8.97 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30532 GHz | 18.09 dBm | -11.91 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31009 GHz | -51.23 dBm | -38.23 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31431 GHz | -27.80 dBm | -14.80 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32271 GHz | -48.43 dBm | -23.43 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32576 GHz | -48.65 dBm | -17.65 dB |

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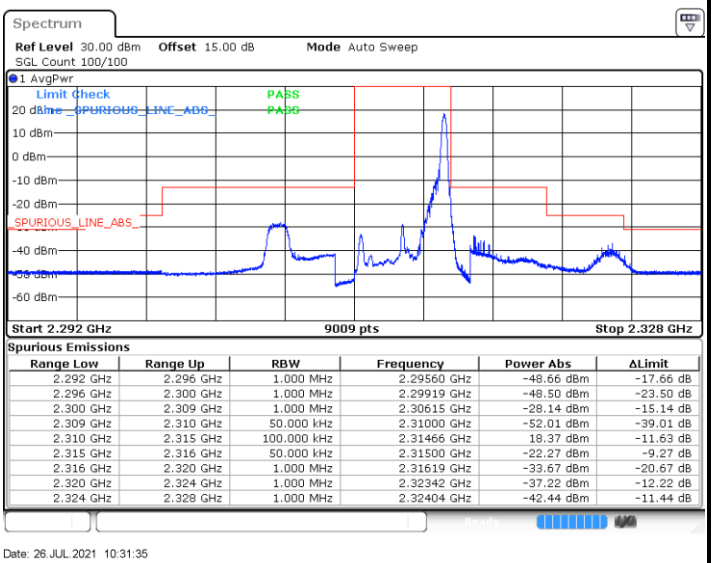
### Highest Band Edge / 1 RB

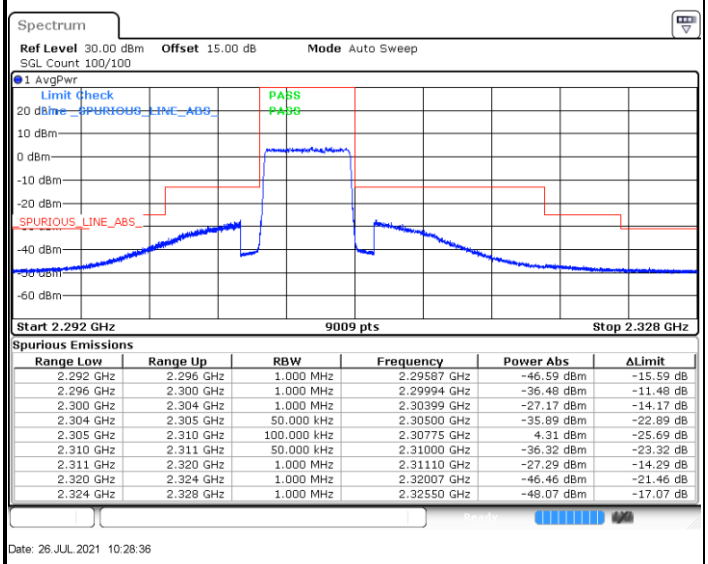



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29560 GHz | -48.66 dBm | -17.66 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29919 GHz | -48.50 dBm | -23.50 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30615 GHz | -28.14 dBm | -15.14 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.31000 GHz | -52.01 dBm | -39.01 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31466 GHz | 18.37 dBm | -11.63 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31500 GHz | -22.27 dBm | -9.27 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31619 GHz | -33.67 dBm | -20.67 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32342 GHz | -37.22 dBm | -12.22 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32404 GHz | -42.44 dBm | -11.44 dB |

Date: 26.JUL.2021 10:31:35

### Lowest Band Edge / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29587 GHz | -46.59 dBm | -15.59 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29994 GHz | -36.48 dBm | -11.48 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30399 GHz | -27.17 dBm | -14.17 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30500 GHz | -35.89 dBm | -22.89 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30775 GHz | 4.31 dBm | -25.69 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31000 GHz | -36.32 dBm | -23.32 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31110 GHz | -27.29 dBm | -14.29 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32007 GHz | -46.46 dBm | -21.46 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32550 GHz | -48.07 dBm | -17.07 dB |

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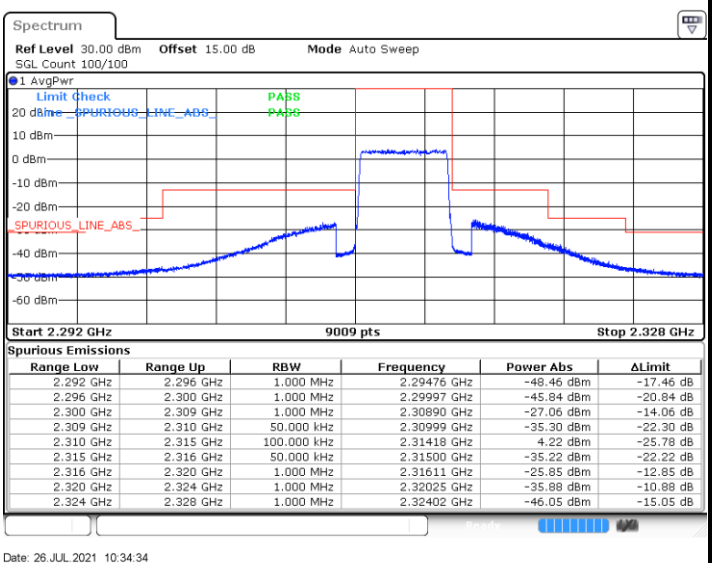
### Highest Band Edge / Full RB



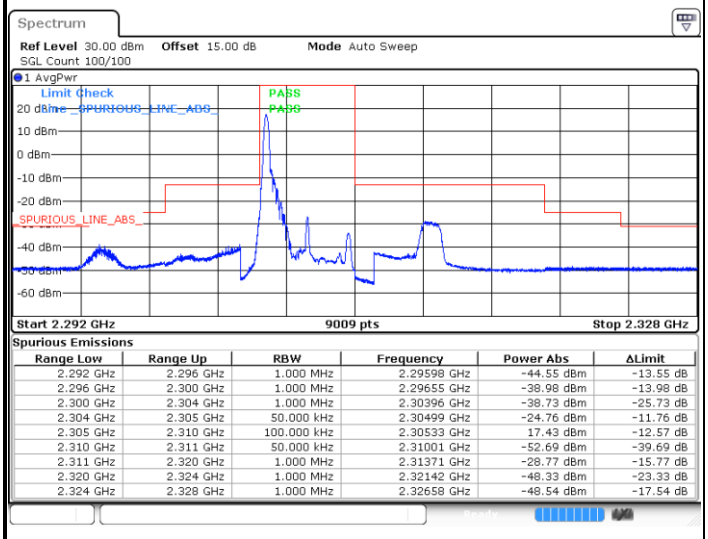

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29476 GHz | -48.46 dBm | -17.46 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29997 GHz | -45.84 dBm | -20.84 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30890 GHz | -27.06 dBm | -14.06 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.30999 GHz | -35.30 dBm | -22.30 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31418 GHz | 4.22 dBm | -25.78 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31500 GHz | -35.22 dBm | -22.22 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31611 GHz | -25.85 dBm | -12.85 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32025 GHz | -35.88 dBm | -10.88 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32402 GHz | -46.05 dBm | -15.05 dB |

Date: 26.JUL.2021 10:34:34

## LTE Band 30 / 5MHz / 64QAM

### Lowest Band Edge / 1RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29598 GHz | -44.55 dBm | -13.55 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29655 GHz | -38.98 dBm | -13.98 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30396 GHz | -38.73 dBm | -25.73 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30499 GHz | -24.76 dBm | -11.76 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30533 GHz | 17.43 dBm | -12.57 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31001 GHz | -52.69 dBm | -39.69 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31371 GHz | -28.77 dBm | -15.77 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32142 GHz | -48.33 dBm | -23.33 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32658 GHz | -48.54 dBm | -17.54 dB |

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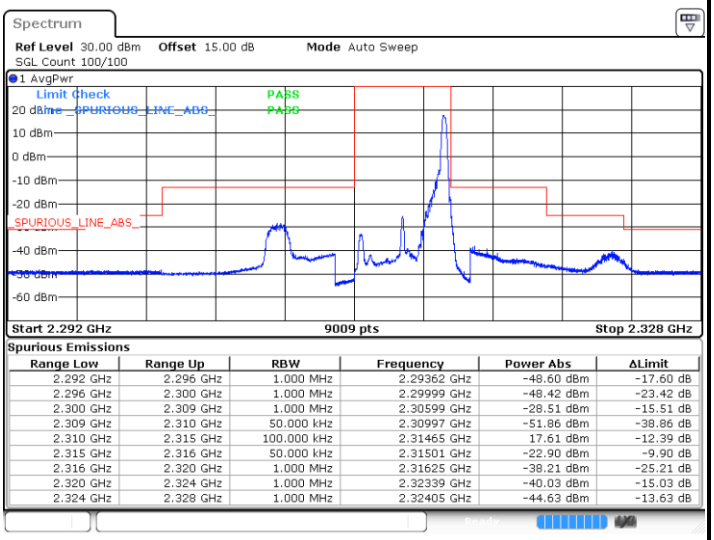
### Highest Band Edge / 1 RB

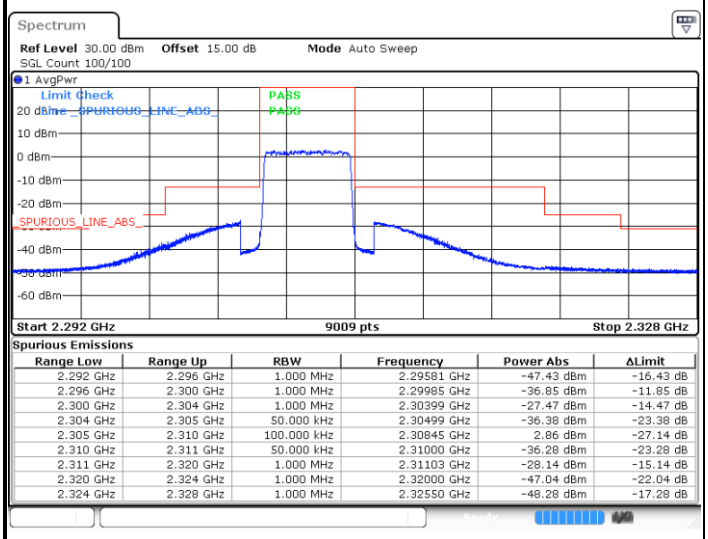



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29362 GHz | -48.60 dBm | -17.60 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29999 GHz | -48.42 dBm | -23.42 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30599 GHz | -28.51 dBm | -15.51 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.30997 GHz | -51.86 dBm | -38.86 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31465 GHz | 17.61 dBm | -12.39 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31501 GHz | -22.90 dBm | -9.90 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31625 GHz | -38.21 dBm | -25.21 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32339 GHz | -40.03 dBm | -15.03 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32405 GHz | -44.63 dBm | -13.63 dB |

Date: 26.JUL.2021 11:59:28

### Lowest Band Edge / Full RB




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29581 GHz | -47.43 dBm | -16.43 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29985 GHz | -36.85 dBm | -11.85 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30399 GHz | -27.47 dBm | -14.47 dB |
| 2.304 GHz | 2.305 GHz | 50.000 kHz | 2.30499 GHz | -36.38 dBm | -23.38 dB |
| 2.305 GHz | 2.310 GHz | 100.000 kHz | 2.30845 GHz | 2.86 dBm | -27.14 dB |
| 2.310 GHz | 2.311 GHz | 50.000 kHz | 2.31000 GHz | -36.28 dBm | -23.28 dB |
| 2.311 GHz | 2.320 GHz | 1.000 MHz | 2.31103 GHz | -28.14 dBm | -15.14 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32000 GHz | -47.04 dBm | -22.04 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32550 GHz | -48.28 dBm | -17.28 dB |

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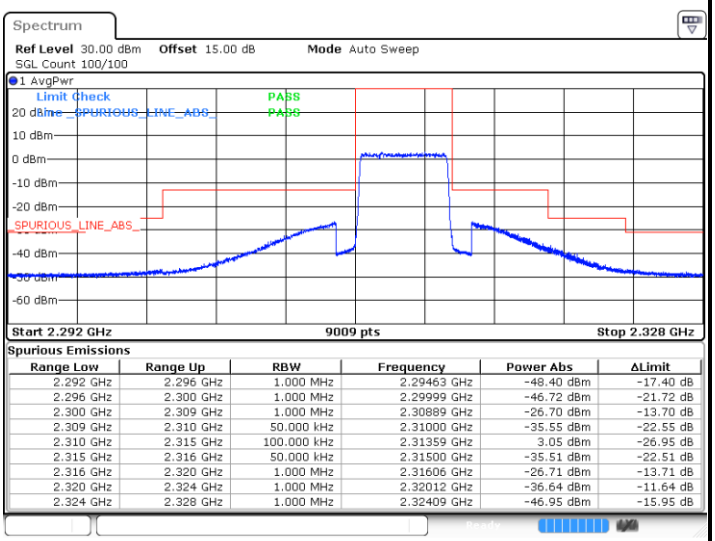
### Highest Band Edge / Full RB



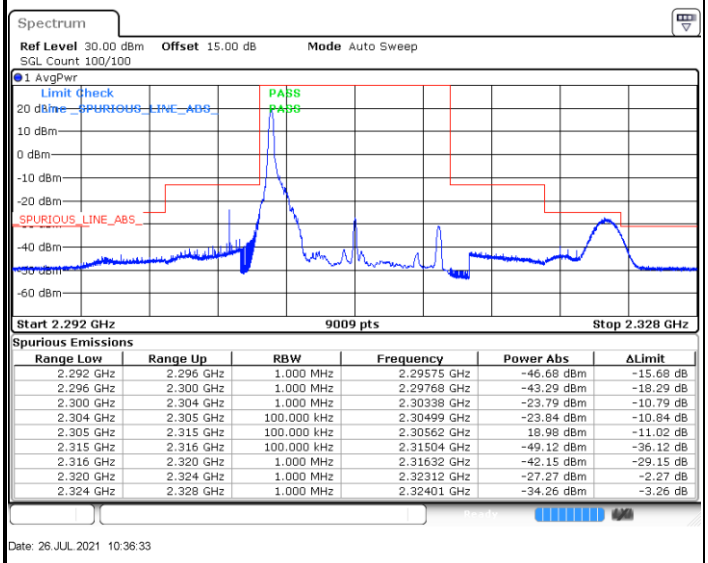

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29463 GHz | -48.40 dBm | -17.40 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29999 GHz | -46.72 dBm | -21.72 dB |
| 2.300 GHz | 2.309 GHz | 1.000 MHz | 2.30889 GHz | -26.70 dBm | -13.70 dB |
| 2.309 GHz | 2.310 GHz | 50.000 kHz | 2.31000 GHz | -35.55 dBm | -22.55 dB |
| 2.310 GHz | 2.315 GHz | 100.000 kHz | 2.31359 GHz | 3.05 dBm | -26.95 dB |
| 2.315 GHz | 2.316 GHz | 50.000 kHz | 2.31500 GHz | -35.51 dBm | -22.51 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31606 GHz | -26.71 dBm | -13.71 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32012 GHz | -36.64 dBm | -11.64 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32409 GHz | -46.95 dBm | -15.95 dB |

Date: 26.JUL.2021 10:35:34

## LTE Band 30 / 10MHz / QPSK

### Lowest Band Edge / 1 RB

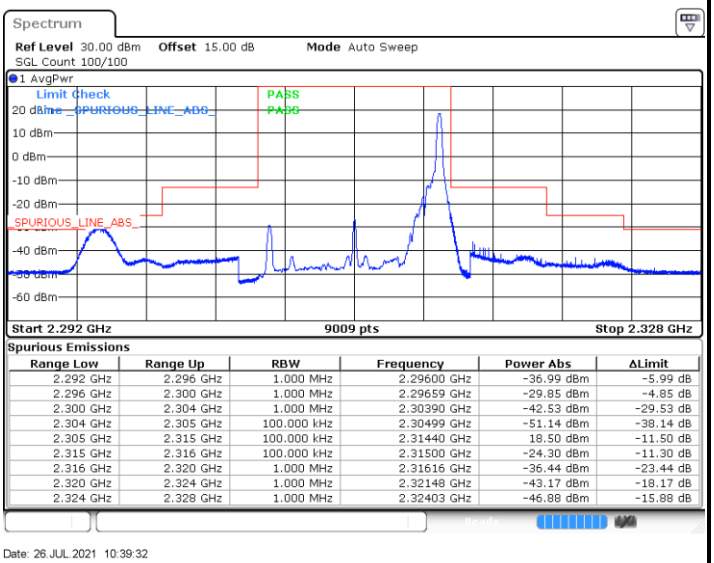



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29575 GHz | -46.68 dBm | -15.68 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29768 GHz | -43.29 dBm | -18.29 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30338 GHz | -23.79 dBm | -10.79 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30499 GHz | -23.84 dBm | -10.84 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.30562 GHz | 18.98 dBm | -11.02 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31504 GHz | -49.12 dBm | -36.12 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31632 GHz | -42.15 dBm | -29.15 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32312 GHz | -27.27 dBm | -2.27 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32401 GHz | -34.26 dBm | -3.26 dB |

Date: 26.JUL.2021 10:36:33

### Highest Band Edge / 1 RB

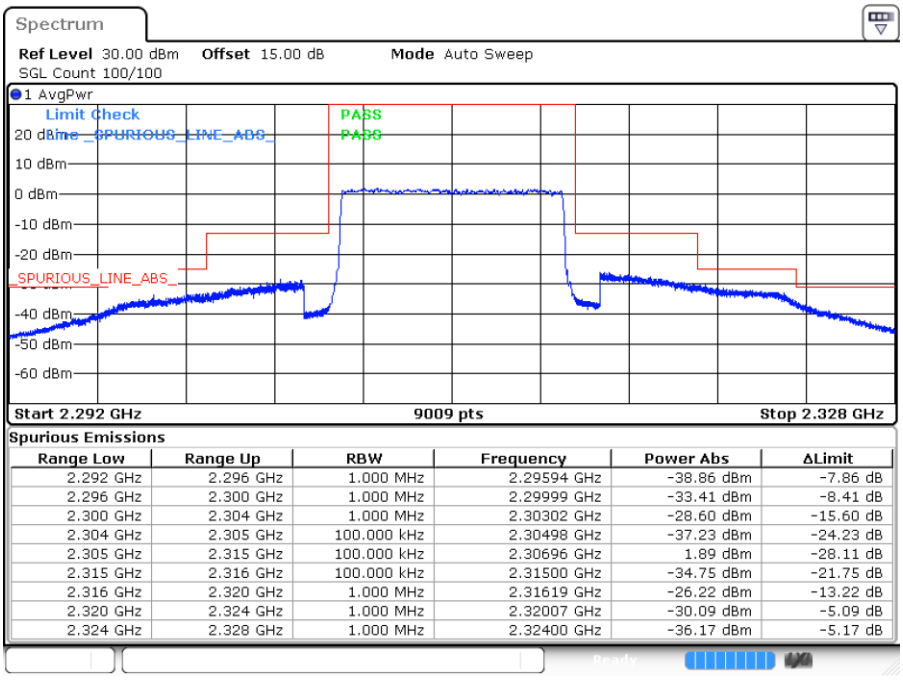



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29600 GHz | -36.99 dBm | -5.99 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29659 GHz | -29.85 dBm | -4.85 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30390 GHz | -42.53 dBm | -29.53 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30499 GHz | -51.14 dBm | -38.14 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.31440 GHz | 18.50 dBm | -11.50 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31500 GHz | -24.30 dBm | -11.30 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31616 GHz | -36.44 dBm | -23.44 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32148 GHz | -43.17 dBm | -18.17 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32403 GHz | -46.88 dBm | -15.88 dB |

Date: 26.JUL.2021 10:39:32

### Band Edge / Full RB



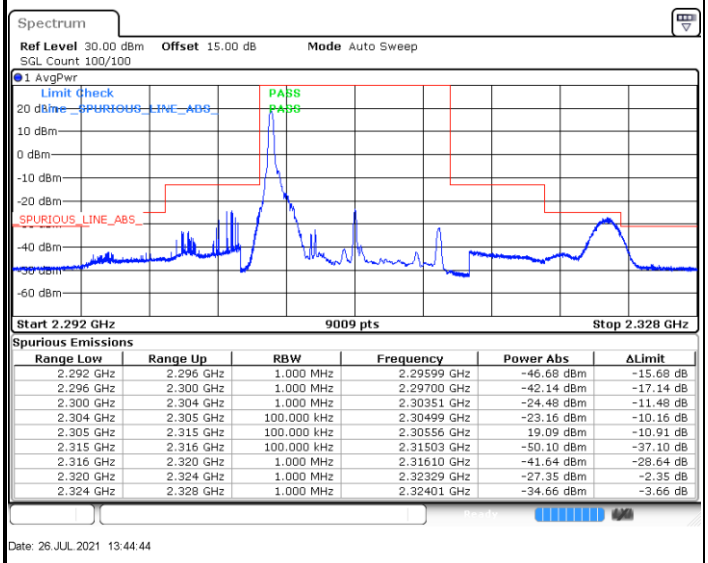

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29594 GHz | -38.86 dBm | -7.86 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29999 GHz | -33.41 dBm | -8.41 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30302 GHz | -28.60 dBm | -15.60 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30498 GHz | -37.23 dBm | -24.23 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.30696 GHz | 1.89 dBm | -28.11 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31500 GHz | -34.75 dBm | -21.75 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31619 GHz | -26.22 dBm | -13.22 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32007 GHz | -30.09 dBm | -5.09 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32400 GHz | -36.17 dBm | -5.17 dB |

Date: 26.JUL.2021 10:42:31

## LTE Band 30 / 10MHz / 16QAM

### Lowest Band Edge / 1 RB

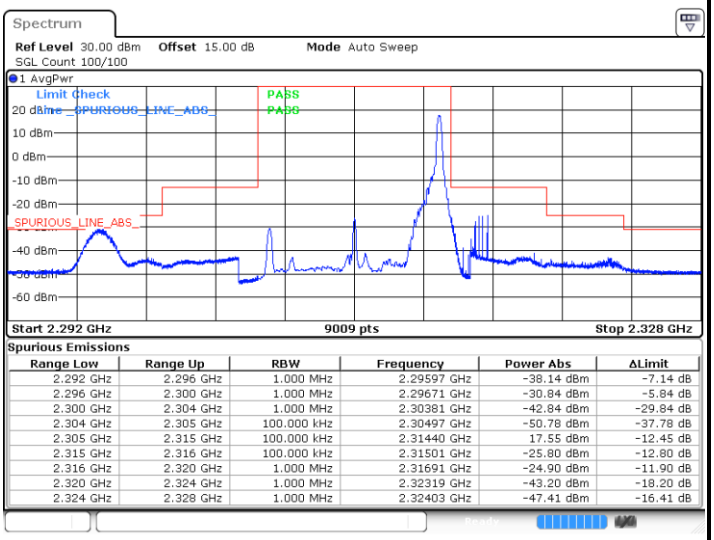



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29599 GHz | -46.68 dBm | -15.68 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29700 GHz | -42.14 dBm | -17.14 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30351 GHz | -24.48 dBm | -11.48 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30499 GHz | -23.16 dBm | -10.16 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.30556 GHz | 19.09 dBm | -10.91 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31503 GHz | -50.10 dBm | -37.10 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31610 GHz | -41.64 dBm | -28.64 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32329 GHz | -27.35 dBm | -2.35 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32401 GHz | -34.66 dBm | -3.66 dB |

Date: 26.JUL.2021 13:44:44

### Highest Band Edge / 1 RB

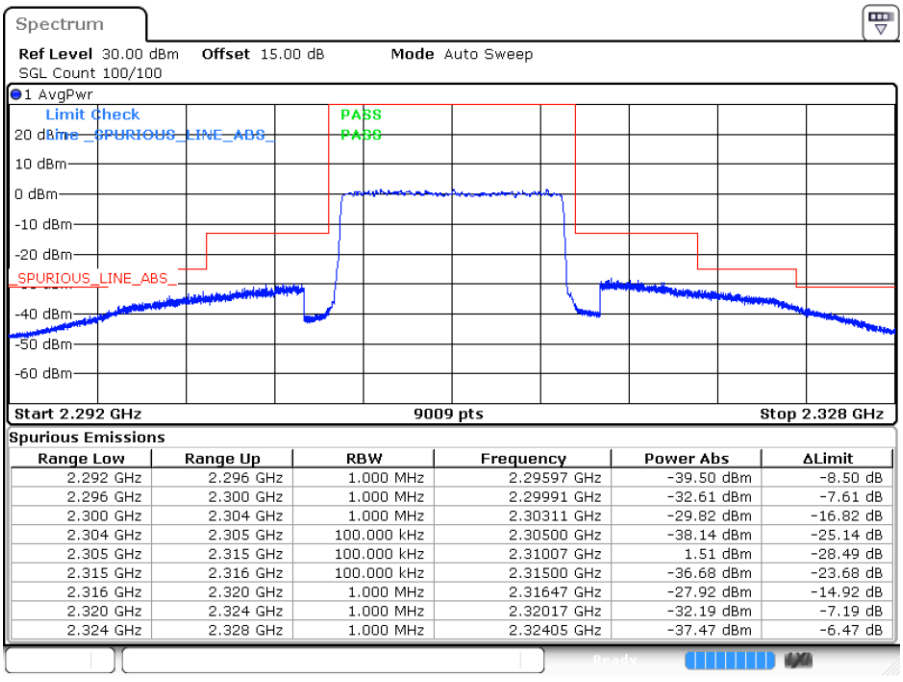



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29597 GHz | -38.14 dBm | -7.14 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29671 GHz | -30.84 dBm | -5.84 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30381 GHz | -42.84 dBm | -29.84 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30497 GHz | -50.78 dBm | -37.78 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.31440 GHz | 17.55 dBm | -12.45 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31501 GHz | -25.80 dBm | -12.80 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31691 GHz | -24.90 dBm | -11.90 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32319 GHz | -43.20 dBm | -18.20 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32403 GHz | -47.41 dBm | -16.41 dB |

Date: 26.JUL.2021 10:40:32

### Band Edge / Full RB



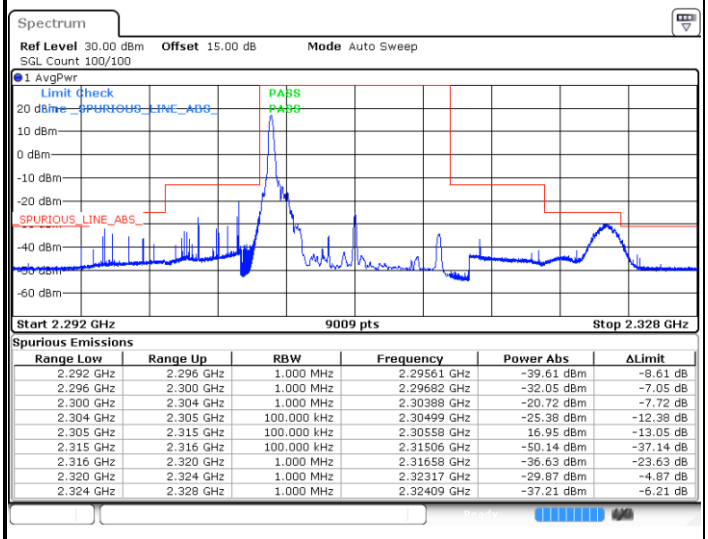

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29597 GHz | -39.50 dBm | -8.50 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29991 GHz | -32.61 dBm | -7.61 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30311 GHz | -29.82 dBm | -16.82 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30500 GHz | -38.14 dBm | -25.14 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.31007 GHz | 1.51 dBm | -28.49 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31500 GHz | -36.68 dBm | -23.68 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31647 GHz | -27.92 dBm | -14.92 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32017 GHz | -32.19 dBm | -7.19 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32405 GHz | -37.47 dBm | -6.47 dB |

Date: 26.JUL.2021 10:43:31

## LTE Band 30 / 10MHz / 64QAM

### Lowest Band Edge / 1 RB

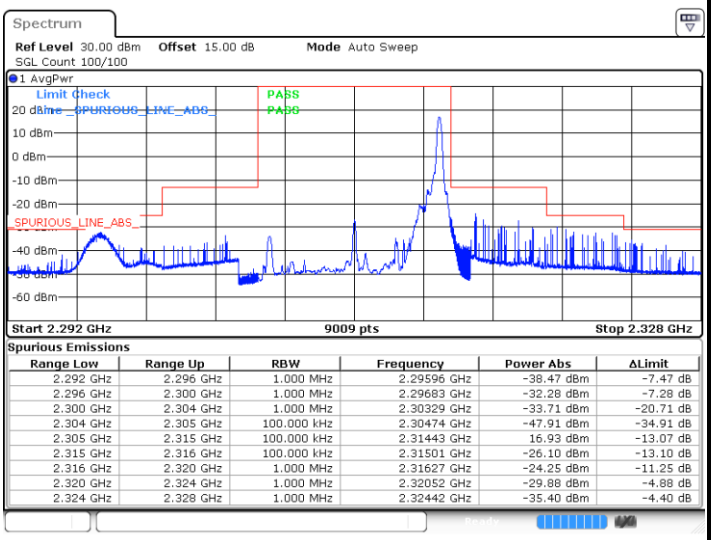



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29561 GHz | -39.61 dBm | -8.61 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29682 GHz | -32.05 dBm | -7.05 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30388 GHz | -20.72 dBm | -7.72 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30499 GHz | -25.38 dBm | -12.38 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.30558 GHz | 16.95 dBm | -13.05 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31506 GHz | -50.14 dBm | -37.14 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31658 GHz | -36.63 dBm | -23.63 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32317 GHz | -29.87 dBm | -4.87 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32409 GHz | -37.21 dBm | -6.21 dB |

Date: 26.JUL.2021 10:38:33

### Highest Band Edge / 1 RB

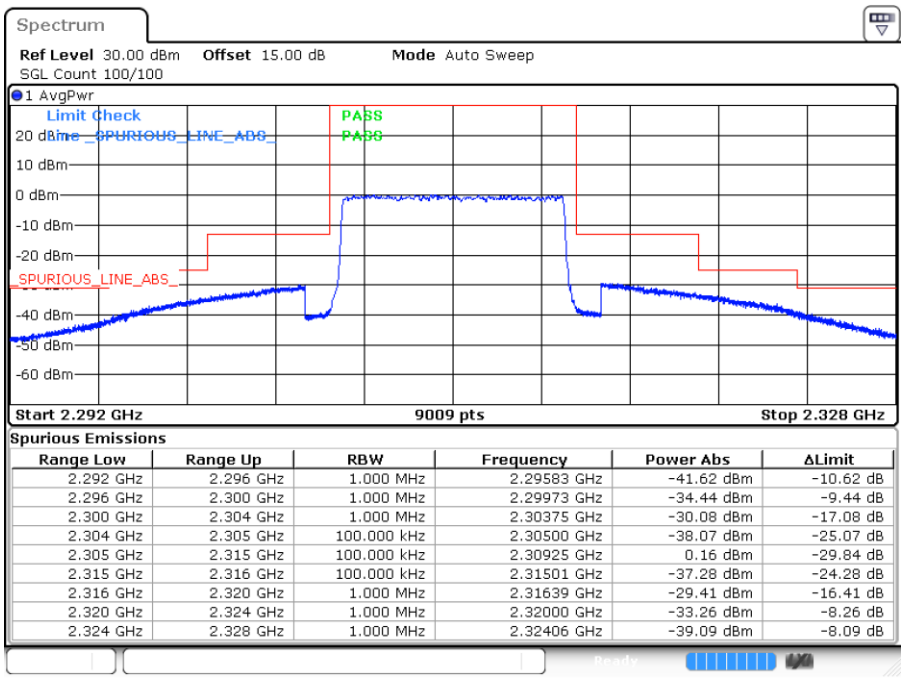



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29596 GHz | -38.47 dBm | -7.47 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29683 GHz | -32.28 dBm | -7.28 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30329 GHz | -33.71 dBm | -20.71 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30474 GHz | -47.91 dBm | -34.91 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.31443 GHz | 16.93 dBm | -13.07 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31501 GHz | -26.10 dBm | -13.10 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31627 GHz | -24.25 dBm | -11.25 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32052 GHz | -29.88 dBm | -4.88 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32442 GHz | -35.40 dBm | -4.40 dB |

Date: 26.JUL.2021 10:41:31

### Band Edge / Full RB




Spurious Emissions

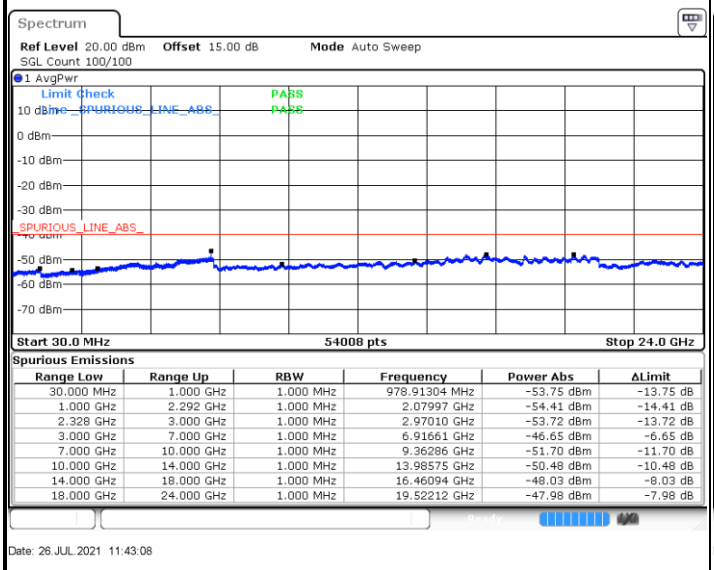
| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 2.292 GHz | 2.296 GHz | 1.000 MHz | 2.29583 GHz | -41.62 dBm | -10.62 dB |
| 2.296 GHz | 2.300 GHz | 1.000 MHz | 2.29973 GHz | -34.44 dBm | -9.44 dB |
| 2.300 GHz | 2.304 GHz | 1.000 MHz | 2.30375 GHz | -30.08 dBm | -17.08 dB |
| 2.304 GHz | 2.305 GHz | 100.000 kHz | 2.30500 GHz | -38.07 dBm | -25.07 dB |
| 2.305 GHz | 2.315 GHz | 100.000 kHz | 2.30925 GHz | 0.16 dBm | -29.84 dB |
| 2.315 GHz | 2.316 GHz | 100.000 kHz | 2.31501 GHz | -37.28 dBm | -24.28 dB |
| 2.316 GHz | 2.320 GHz | 1.000 MHz | 2.31639 GHz | -29.41 dBm | -16.41 dB |
| 2.320 GHz | 2.324 GHz | 1.000 MHz | 2.32000 GHz | -33.26 dBm | -8.26 dB |
| 2.324 GHz | 2.328 GHz | 1.000 MHz | 2.32406 GHz | -39.09 dBm | -8.09 dB |

Date: 26.JUL.2021 10:44:30

# Conducted Spurious Emission

## LTE Band 30 / 5MHz

### Lowest Channel / QPSK

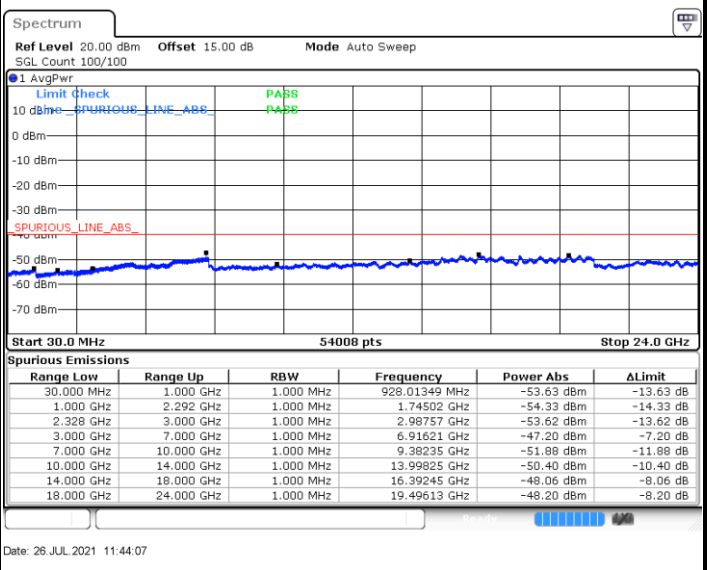



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 978.91304 MHz | -53.75 dBm | -13.75 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.07997 GHz | -54.41 dBm | -14.41 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.97010 GHz | -53.72 dBm | -13.72 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91661 GHz | -46.65 dBm | -6.65 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.36286 GHz | -51.70 dBm | -11.70 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98575 GHz | -50.48 dBm | -10.48 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.46094 GHz | -48.03 dBm | -8.03 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.52212 GHz | -47.98 dBm | -7.98 dB |

Date: 26.JUL.2021 11:43:08

### Lowest Channel / 16QAM

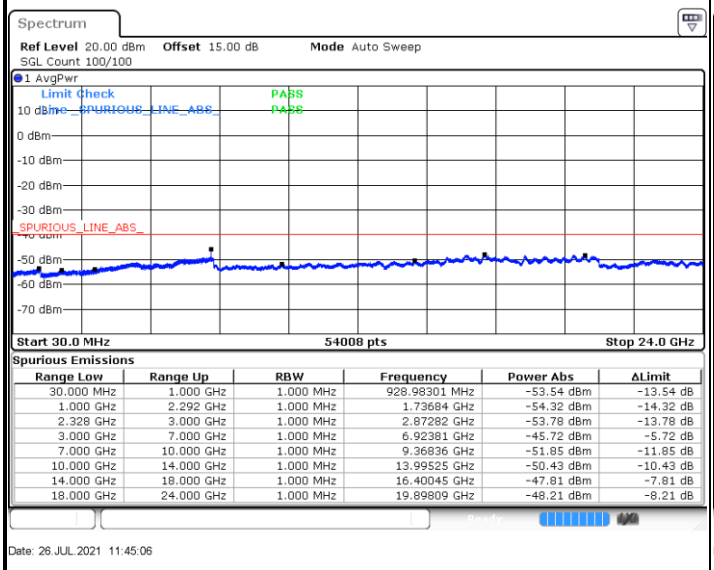



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 928.01349 MHz | -53.63 dBm | -13.63 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 1.74502 GHz | -54.33 dBm | -14.33 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.98757 GHz | -53.62 dBm | -13.62 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91621 GHz | -47.20 dBm | -7.20 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.38235 GHz | -51.88 dBm | -11.88 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99825 GHz | -50.40 dBm | -10.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.39245 GHz | -48.06 dBm | -8.06 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.49613 GHz | -48.20 dBm | -8.20 dB |

Date: 26.JUL.2021 11:44:07

### Middle Channel / QPSK

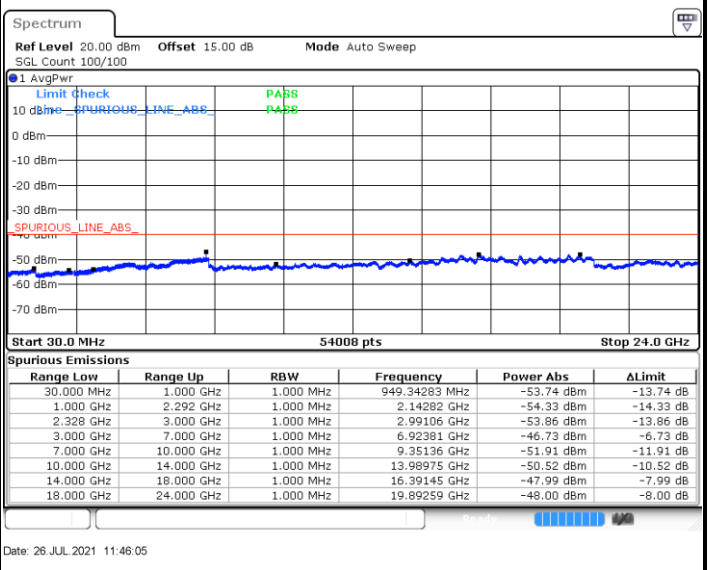



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 928.98301 MHz | -53.54 dBm | -13.54 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 1.73684 GHz | -54.32 dBm | -14.32 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.87282 GHz | -53.78 dBm | -13.78 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92381 GHz | -45.72 dBm | -5.72 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.36836 GHz | -51.85 dBm | -11.85 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99525 GHz | -50.43 dBm | -10.43 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.40045 GHz | -47.81 dBm | -7.81 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.89809 GHz | -48.21 dBm | -8.21 dB |

Date: 26.JUL.2021 11:45:06

### Middle Channel / 16QAM



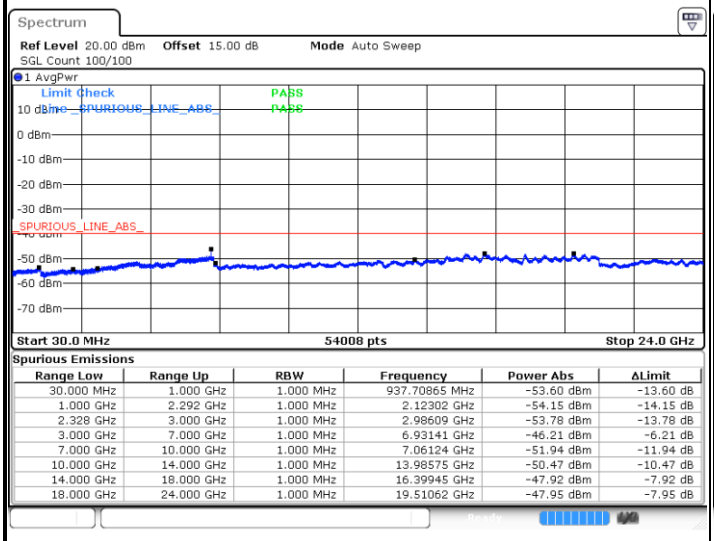

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 949.34283 MHz | -53.74 dBm | -13.74 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.14282 GHz | -54.33 dBm | -14.33 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.99106 GHz | -53.86 dBm | -13.86 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92381 GHz | -46.73 dBm | -6.73 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.35136 GHz | -51.91 dBm | -11.91 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98975 GHz | -50.52 dBm | -10.52 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.39145 GHz | -47.99 dBm | -7.99 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.89259 GHz | -48.00 dBm | -8.00 dB |

Date: 26.JUL.2021 11:46:05

## LTE Band 30 / 5MHz

### Highest Channel / QPSK

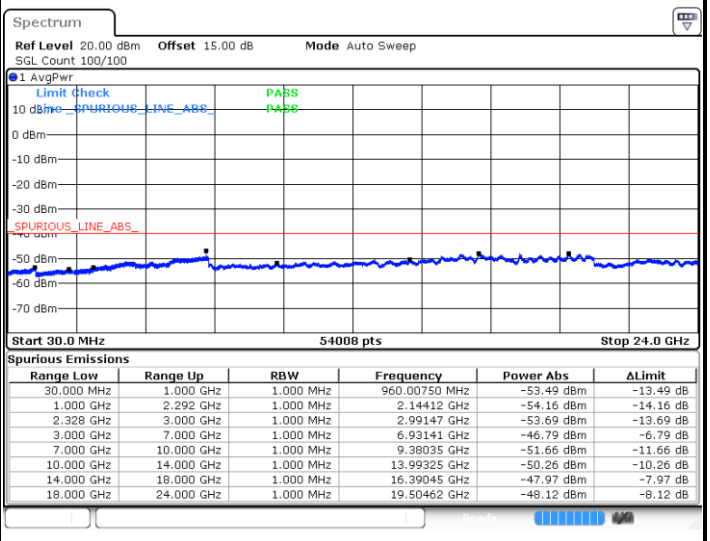



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 937.70865 MHz | -53.60 dBm | -13.60 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.12302 GHz | -54.15 dBm | -14.15 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.98609 GHz | -53.78 dBm | -13.78 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93141 GHz | -46.21 dBm | -6.21 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 7.06124 GHz | -51.94 dBm | -11.94 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98575 GHz | -50.47 dBm | -10.47 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.39945 GHz | -47.92 dBm | -7.92 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.51062 GHz | -47.95 dBm | -7.95 dB |

Date: 26.JUL.2021 11:47:04

### Highest Channel / 16QAM



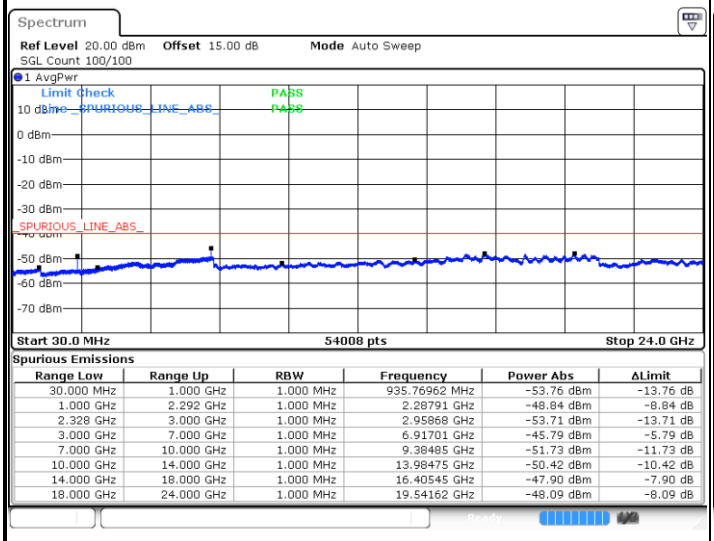

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 960.00750 MHz | -53.49 dBm | -13.49 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.14412 GHz | -54.16 dBm | -14.16 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.99147 GHz | -53.69 dBm | -13.69 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93141 GHz | -46.79 dBm | -6.79 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.38035 GHz | -51.66 dBm | -11.66 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99325 GHz | -50.26 dBm | -10.26 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.39045 GHz | -47.97 dBm | -7.97 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.50462 GHz | -48.12 dBm | -8.12 dB |

Date: 26.JUL.2021 11:48:03

## LTE Band 30 / 10MHz

### Middle Channel / QPSK

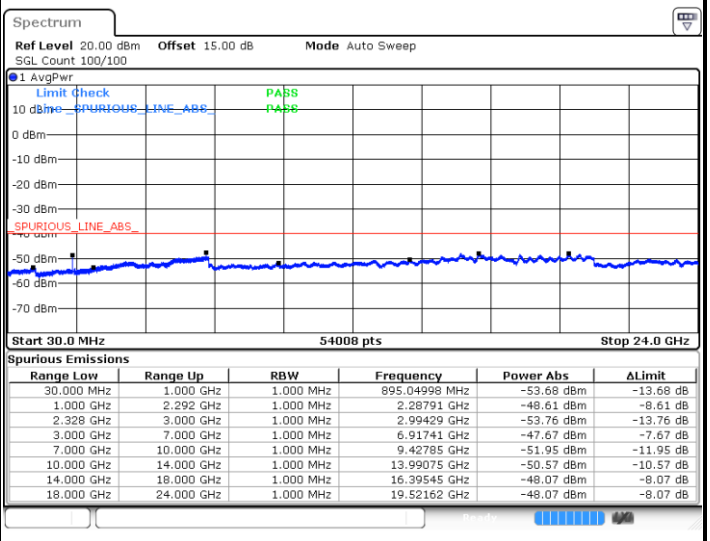



Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 935.76962 MHz | -53.76 dBm | -13.76 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.28791 GHz | -48.84 dBm | -8.84 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.95868 GHz | -53.71 dBm | -13.71 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91701 GHz | -45.79 dBm | -5.79 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.38485 GHz | -51.73 dBm | -11.73 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.98475 GHz | -50.42 dBm | -10.42 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.40545 GHz | -47.90 dBm | -7.90 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.54162 GHz | -48.09 dBm | -8.09 dB |

Date: 26.JUL.2021 11:57:15

### Middle Channel / 16QAM



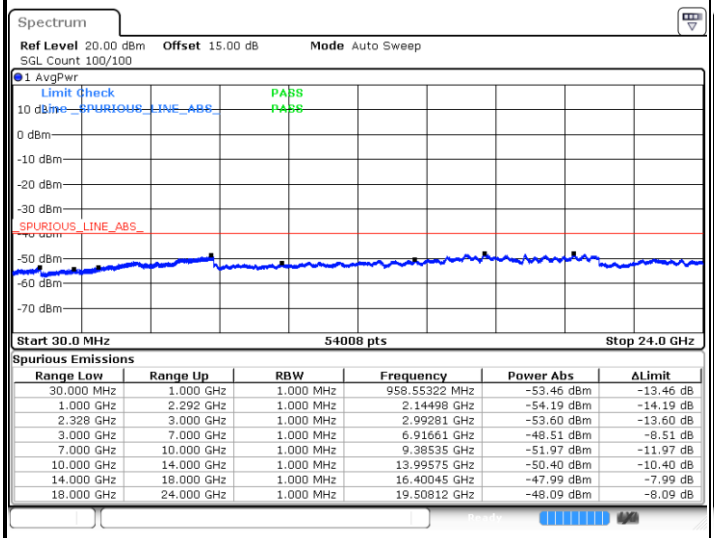

Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 895.04998 MHz | -53.68 dBm | -13.68 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.28791 GHz | -48.61 dBm | -8.61 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.99429 GHz | -53.76 dBm | -13.76 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91741 GHz | -47.67 dBm | -7.67 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.42785 GHz | -51.95 dBm | -11.95 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99075 GHz | -50.57 dBm | -10.57 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.39545 GHz | -48.07 dBm | -8.07 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.52162 GHz | -48.07 dBm | -8.07 dB |

Date: 26.JUL.2021 11:58:14

## LTE Band 30 / 5MHz

### Lowest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 958.55322 MHz | -53.46 dBm | -13.46 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.14498 GHz | -54.19 dBm | -14.19 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.99281 GHz | -53.60 dBm | -13.60 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91661 GHz | -48.51 dBm | -8.51 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.38535 GHz | -51.97 dBm | -11.97 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99575 GHz | -50.40 dBm | -10.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.40045 GHz | -47.99 dBm | -7.99 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.50812 GHz | -48.09 dBm | -8.09 dB |

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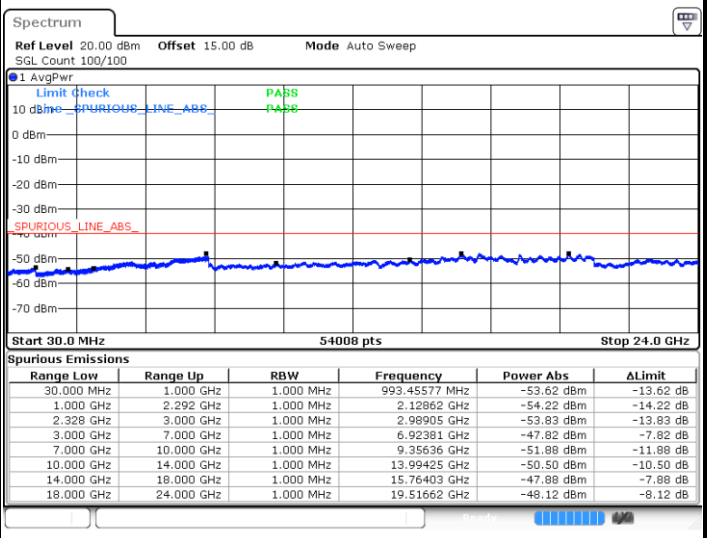
### Middle Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 993.45577 MHz | -53.62 dBm | -13.62 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.12862 GHz | -54.22 dBm | -14.22 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.98905 GHz | -53.83 dBm | -13.83 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.92381 GHz | -47.82 dBm | -7.82 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.35636 GHz | -51.88 dBm | -11.88 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99425 GHz | -50.50 dBm | -10.50 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 15.76403 GHz | -47.88 dBm | -7.88 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.51662 GHz | -48.12 dBm | -8.12 dB |

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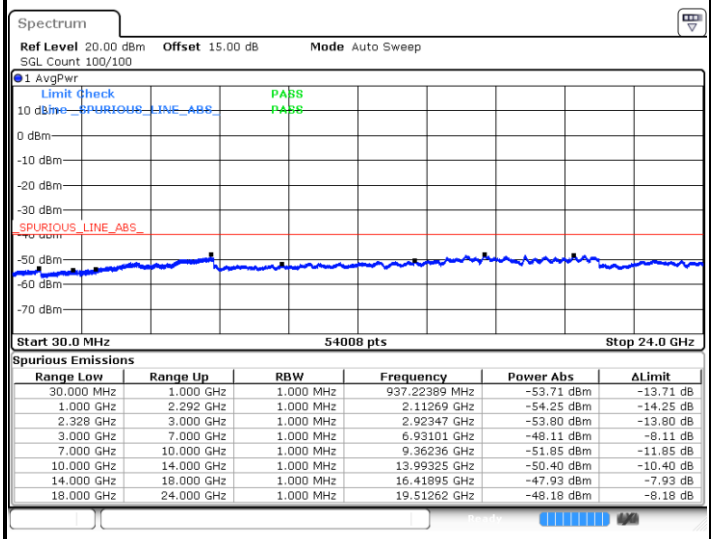
### Highest Channel / 64QAM




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 937.22389 MHz | -53.71 dBm | -13.71 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.11269 GHz | -54.25 dBm | -14.25 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.92347 GHz | -53.80 dBm | -13.80 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93101 GHz | -48.11 dBm | -8.11 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.36236 GHz | -51.85 dBm | -11.85 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99325 GHz | -50.40 dBm | -10.40 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.41895 GHz | -47.93 dBm | -7.93 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.51262 GHz | -48.18 dBm | -8.18 dB |

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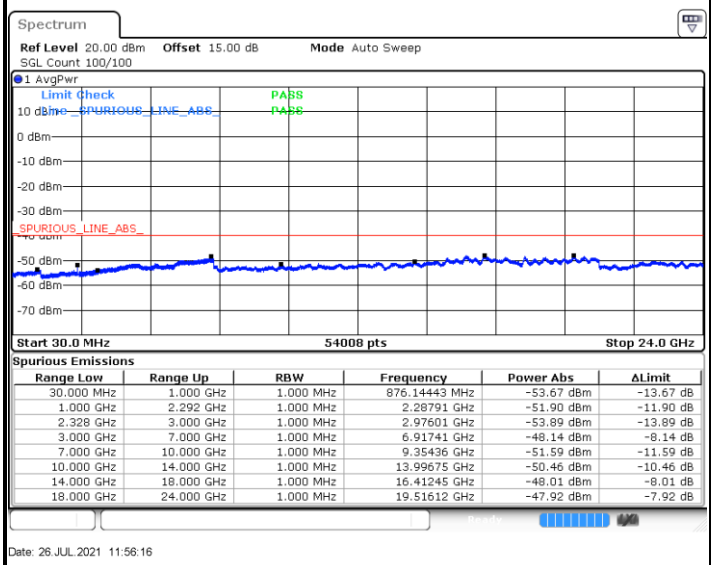
| LTE Band 30 / 10MHz | |
|---|---|
| **Middle Channel / 64QAM** | |




Spurious Emissions

| Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit |
|---|---|---|---|---|---|
| 30.000 MHz | 1.000 GHz | 1.000 MHz | 876.14443 MHz | -53.67 dBm | -13.67 dB |
| 1.000 GHz | 2.292 GHz | 1.000 MHz | 2.28791 GHz | -51.90 dBm | -11.90 dB |
| 2.328 GHz | 3.000 GHz | 1.000 MHz | 2.97601 GHz | -53.89 dBm | -13.89 dB |
| 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.91741 GHz | -48.14 dBm | -8.14 dB |
| 7.000 GHz | 10.000 GHz | 1.000 MHz | 9.35436 GHz | -51.59 dBm | -11.59 dB |
| 10.000 GHz | 14.000 GHz | 1.000 MHz | 13.99675 GHz | -50.46 dBm | -10.46 dB |
| 14.000 GHz | 18.000 GHz | 1.000 MHz | 16.41245 GHz | -48.01 dBm | -8.01 dB |
| 18.000 GHz | 24.000 GHz | 1.000 MHz | 19.51612 GHz | -47.92 dBm | -7.92 dB |

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# Frequency Stability

| Test Conditions | | LTE Band 30 (QPSK) / Middle Channel | Limit |
|---|---|---|---|
| Temperature (°C) | Voltage (Volt) | BW 10MHz | Note 2. |
| | | Deviation (ppm) | Result |
| 50 | Normal Voltage | 0.0001 | PASS |
| 40 | Normal Voltage | 0.0004 | |
| 30 | Normal Voltage | 0.0005 | |
| 20(Ref.) | Normal Voltage | 0.0000 | |
| 10 | Normal Voltage | 0.0059 | |
| 0 | Normal Voltage | 0.0010 | |
| -10 | Normal Voltage | 0.0001 | |
| -20 | Normal Voltage | 0.0007 | |
| -30 | Normal Voltage | 0.0005 | |
| 20 | Maximum Voltage | 0.0004 | |
| 20 | Normal Voltage | 0.0000 | |
| 20 | Battery End Point | 0.0009 | |

**Note:**

**1.** Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.

**2.** Note: The frequency fundamental emissions stay within the authorized frequency block.

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# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

**Top Antenna:**

| LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 4615.50 | -62.90 | -40 | -22.90 | -55.69 | -69.15 | 6.45 | 12.70 | H |
| | 6923.25 | -61.24 | -40 | -21.24 | -56.66 | -64.64 | 8.40 | 11.80 | H |
| | 9231.00 | -55.91 | -40 | -15.91 | -57.00 | -58.26 | 9.65 | 12.00 | H |
| | 11538.75 | -51.92 | -40 | -11.92 | -58.01 | -53.00 | 11.12 | 12.20 | H |
| | 4615.50 | -61.15 | -40 | -21.15 | -53.8 | -67.40 | 6.45 | 12.70 | V |
| | 6923.25 | -61.33 | -40 | -21.33 | -56.73 | -64.73 | 8.40 | 11.80 | V |
| | 9231.00 | -56.30 | -40 | -16.30 | -56.98 | -58.65 | 9.65 | 12.00 | V |
| | 11538.75 | -51.99 | -40 | -11.99 | -57.98 | -53.07 | 11.12 | 12.20 | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 4611.50 | -62.72 | -40 | -22.72 | -55.51 | -68.97 | 6.45 | 12.70 | H |
| | 6916.50 | -61.60 | -40 | -21.60 | -56.99 | -65.00 | 8.40 | 11.80 | H |
| | 9222.00 | -56.12 | -40 | -16.12 | -57.20 | -58.47 | 9.65 | 12.00 | H |
| | 11527.50 | -51.84 | -40 | -11.84 | -57.97 | -52.92 | 11.12 | 12.20 | H |
| | 4611.50 | -60.77 | -40 | -20.77 | -53.41 | -67.02 | 6.45 | 12.70 | V |
| | 6916.50 | -61.53 | -40 | -21.53 | -56.88 | -64.93 | 8.40 | 11.80 | V |
| | 9222.00 | -56.37 | -40 | -16.37 | -57.03 | -58.72 | 9.65 | 12.00 | V |
| | 11527.50 | -51.99 | -40 | -11.99 | -58.01 | -53.07 | 11.12 | 12.20 | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**Bottom Antenna:**

| LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 4615.50 | -62.59 | -40 | -22.59 | -55.38 | -68.84 | 6.45 | 12.70 | H |
| | 6923.25 | -61.34 | -40 | -21.34 | -56.76 | -64.74 | 8.40 | 11.80 | H |
| | 9231.00 | -56.06 | -40 | -16.06 | -57.15 | -58.41 | 9.65 | 12.00 | H |
| | 11538.75 | -51.85 | -40 | -11.85 | -57.94 | -52.93 | 11.12 | 12.20 | H |
| | 4615.50 | -61.40 | -40 | -21.40 | -54.05 | -67.65 | 6.45 | 12.70 | V |
| | 6923.25 | -61.37 | -40 | -21.37 | -56.77 | -64.77 | 8.40 | 11.80 | V |
| | 9231.00 | -56.44 | -40 | -16.44 | -57.12 | -58.79 | 9.65 | 12.00 | V |
| | 11538.75 | -51.98 | -40 | -11.98 | -57.97 | -53.06 | 11.12 | 12.20 | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 4611.50 | -63.01 | -40 | -23.01 | -55.80 | -69.26 | 6.45 | 12.70 | H |
| | 6916.50 | -61.51 | -40 | -21.51 | -56.90 | -64.91 | 8.40 | 11.80 | H |
| | 9222.00 | -55.85 | -40 | -15.85 | -56.93 | -58.20 | 9.65 | 12.00 | H |
| | 11527.50 | -51.86 | -40 | -11.86 | -57.99 | -52.94 | 11.12 | 12.20 | H |
| | 4611.50 | -60.89 | -40 | -20.89 | -53.53 | -67.14 | 6.45 | 12.70 | V |
| | 6916.50 | -61.60 | -40 | -21.60 | -56.95 | -65.00 | 8.40 | 11.80 | V |
| | 9222.00 | -56.38 | -40 | -16.38 | -57.04 | -58.73 | 9.65 | 12.00 | V |
| | 11527.50 | -52.01 | -40 | -12.01 | -58.03 | -53.09 | 11.12 | 12.20 | V |

**Remark:** Spurious emissions within 30-1000MHz were found more than 20dB below limit line.