FCC RF Test Report

APPLICANT	:	VinSmart Research and Manufacture Joint Stock Company
EQUIPMENT	:	SMARTPHONE
BRAND NAME	:	Vsmart
MODEL NAME	:	V350S
FCC ID	:	2AVD3V350S
STANDARD	:	47 CFR Part 2, 27(D)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 15, 2020 and completely tested on Sep. 01, 2020. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager

ACCREDITED
Cert #5145.02

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG051501-04D	Rev. 01	Initial issue of report	Dec. 25, 2020

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 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< $70+10\log_{10}$(P[Watts])	PASS	Under limit 17.86 dB at 9220.000 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

VinSmart Research and Manufacture Joint Stock Company
Lot CN1-06B-1&2, Hi-tech Industrial Park 1, Hoa Lac Hi-tech Park, Ha Bang, Thach That, Hanoi, Vietnam

1.2 Manufacturer

VinSmart Research and Manufacture Joint Stock Company
Lot CN1-06B-1&2, Hi-tech Industrial Park 1, Hoa Lac Hi-tech Park, Ha Bang, Thach That, Hanoi, Vietnam

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	SMARTPHONE
Brand Name	Vsmart
Model Name	V350S
FCC ID	2AVD3V350S
EUT supports Radios application	GSM/WCDMA/LTE/GNSS WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 353613110012815 Radiation: 353795160011787
HW Version	REV 1.0
SW Version	V350S_USA_U_A1_201221
EUT Stage	Identical Prototype

Remark:
This is a test report for change in FCC ID, there is no difference on the product design , all the test results are leveraged from original FCC ID: 2AVD3V350U, report number FG051501D

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 23.84 dBm
Antenna Gain	LTE Band 30 : -1.90 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

1.6 Maximum EIRP power, Frequency Tolerance and Emission Designator

LTE Band 30		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP (W)
5	2307.5 ~ 2312.5	4M50G7D	-	0.1466	4M50W7D	-	0.1282
10	2310.0	9M01G7D	0.0017	0.1563	8M97W7D	-	0.1208

LTE Band 30		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP (W)
5	2307.5 ~ 2312.5	4M50W7D	-	0.0971
10	2310.0	9M05W7D	-	0.1005

1.7 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 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

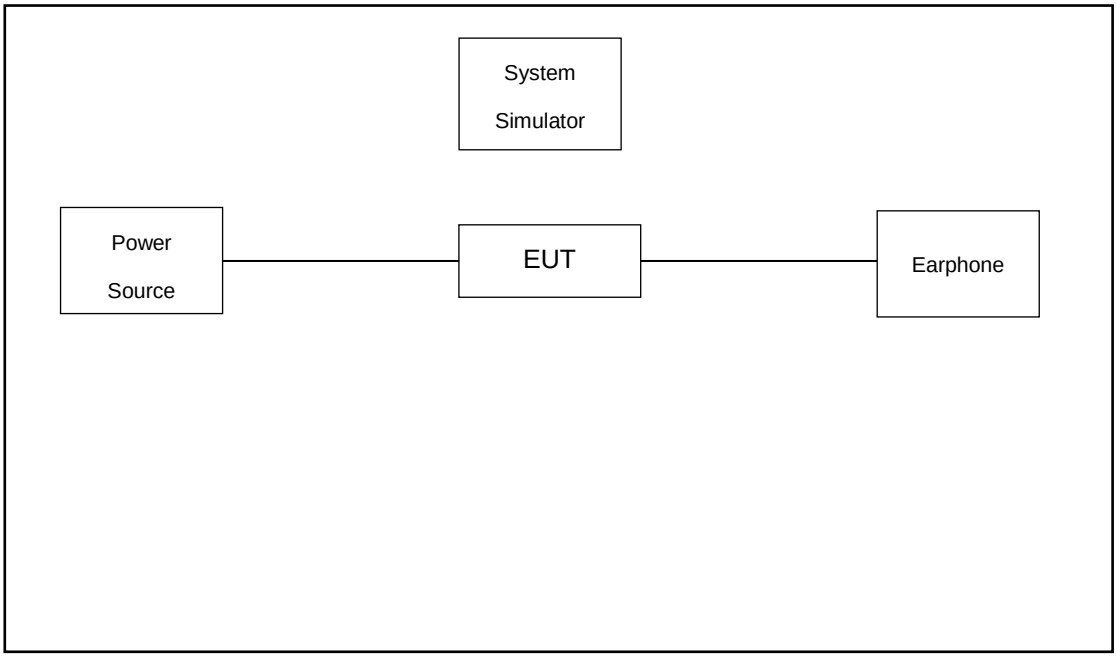
2.1 Test Mode

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	Worst case													V	
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Moto	N/A	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.

Following shows an offset computation example with cable loss 6.5 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 6.5 (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

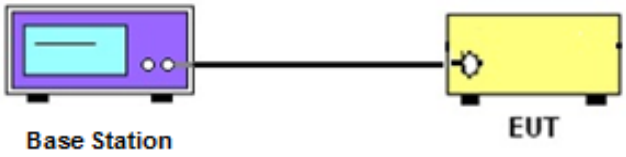
3 Conducted Test Items

3.1 Measuring Instruments

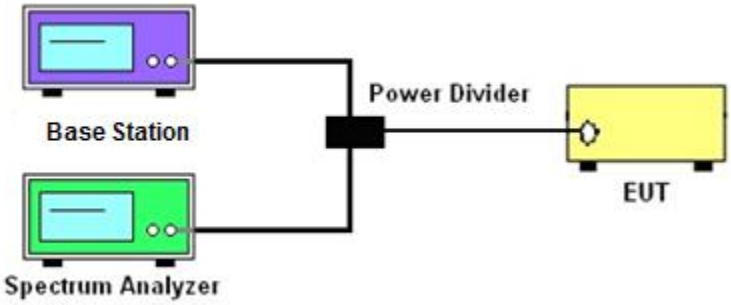
See list of measuring instruments of this test report.

3.2 Test Setup

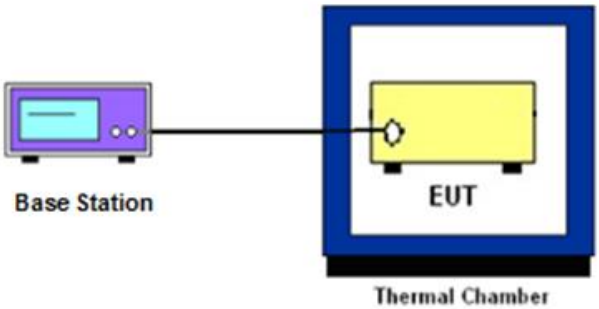
3.2.1 Conducted Output Power



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.
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 10th 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.

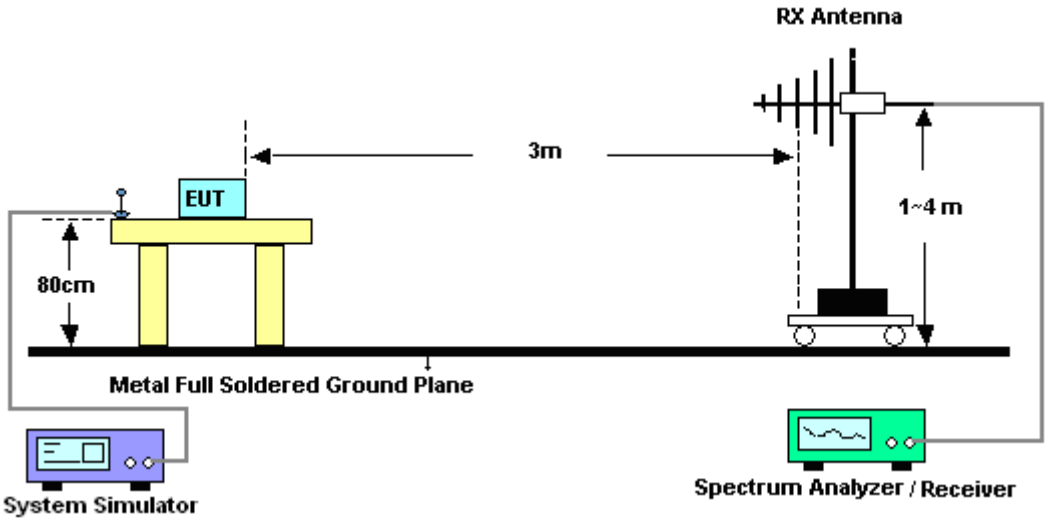
4 Radiated Test Items

4.1 Measuring Instruments

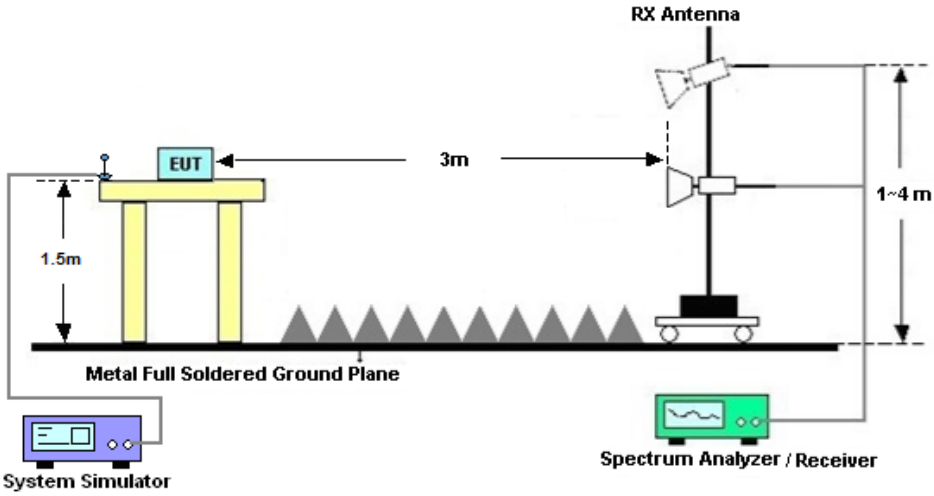
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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 C63.26. 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	101040	10Hz~40GHz	Nov. 02, 2019	Aug. 07, 2020~ Sep. 01, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 28, 2019	Aug. 07, 2020~ Sep. 01, 2020	Oct. 27, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Aug. 17, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jan. 02, 2020	Aug. 17, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Aug. 17, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Aug. 17, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 02, 2020	Aug. 17, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Aug. 17, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 02, 2020	Aug. 17, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Aug. 17, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 17, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 17, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 17, 2020	NCR	Radiation (03CH04-KS)

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))	**3.3dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	-	23.84	-
5	1	12			23.83	
5	1	24			23.77	
5	12	0			22.49	
5	12	7			22.44	
5	12	13			22.59	
5	25	0			22.48	
5	1	0	16-QAM		22.45	
5	1	12			22.72	
5	1	24			22.56	
5	12	0			21.50	
5	12	7			21.46	
5	12	13			21.52	
5	25	0			21.41	
5	1	0	64QAM		21.88	
5	1	12			21.73	
5	1	24			21.92	
5	12	0			20.54	
5	12	7			20.49	
5	12	13			20.58	
5	25	0			20.46	

LTE Band 30 Maximum Average Power [dBm]						
10	1	0	QPSK	23.47	23.45	23.55
10	1	25		23.56	23.46	23.48
10	1	49		23.36	23.55	23.56
10	25	0		22.45	22.47	22.52
10	25	12		22.47	22.49	22.52
10	25	25		22.45	22.48	22.55
10	50	0		22.59	22.41	22.53
10	1	0	16-QAM	22.64	22.76	22.98
10	1	25		22.97	22.80	22.75
10	1	49		22.57	22.72	22.83
10	25	0		21.48	21.51	21.54
10	25	12		21.49	21.53	21.56
10	25	25		21.48	21.53	21.61
10	50	0		21.52	21.48	21.57
10	1	0	64QAM	21.70	21.72	21.77
10	1	25		21.56	21.74	21.65
10	1	49		21.58	21.64	21.60
10	25	0		20.41	20.60	20.48
10	25	12		20.54	20.60	20.50
10	25	25		20.43	20.47	20.56
10	50	0		20.55	20.49	20.51

EIRP

LTE Band 30 (GT - LC = -1.90 dB) QPSK (dBm/5MHz)			
Bandwidth	5M		
Channel	27685	27710	27735
	(Low)	(Mid)	(High)
Frequency (MHz)	2307.5	2310	2312.5
Conducted Power (dBm)	23.56	23.46	23.48
Conducted Power (Watts)	0.2270	0.2218	0.2228
EIRP(dBm)	21.66	21.56	21.58
EIRP(Watts)	0.1466	0.1432	0.1439
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

LTE Band 30 (GT - LC = -1.90 dB) QPSK (dBm/5MHz)			
Bandwidth	10M		
Channel		27710	
		(Mid)	
Frequency (MHz)		2310	
Conducted Power (dBm)		23.84	
Conducted Power (Watts)		0.2421	
EIRP(dBm)		21.94	
EIRP(Watts)		0.1563	
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

LTE Band 30 (GT - LC = -1.90 dB) 16QAM (dBm/5MHz)			
Bandwidth	5M		
Channel	27685	27710	27735
	(Low)	(Mid)	(High)
Frequency (MHz)	2307.5	2310	2312.5
Conducted Power (dBm)	22.64	22.76	22.98
Conducted Power (Watts)	0.1837	0.1888	0.1986
EIRP(dBm)	20.74	20.86	21.08
EIRP(Watts)	0.1186	0.1219	0.1282
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

LTE Band 30 (GT - LC = -1.90 dB) 16QAM (dBm/5MHz)			
Bandwidth	10M		
Channel		27710	
		(Mid)	
Frequency (MHz)		2310	
Conducted Power (dBm)		22.72	
Conducted Power (Watts)		0.1871	
EIRP(dBm)		20.82	
EIRP(Watts)		0.1208	
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

LTE Band 30 (GT - LC = -1.90 dB) 64QAM (dBm/5MHz)			
Bandwidth	5M		
Channel	27685	27710	27735
	(Low)	(Mid)	(High)
Frequency (MHz)	2307.5	2310	2312.5
Conducted Power (dBm)	21.70	21.72	21.77
Conducted Power (Watts)	0.1479	0.1486	0.1503
EIRP(dBm)	19.80	19.82	19.87
EIRP(Watts)	0.0955	0.0959	0.0971
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

LTE Band 30 (GT - LC = -1.90 dB) 64QAM (dBm/5MHz)			
Bandwidth	10M		
Channel		27710	
		(Mid)	
Frequency (MHz)		2310	
Conducted Power (dBm)		21.92	
Conducted Power (Watts)		0.1556	
EIRP(dBm)		20.02	
EIRP(Watts)		0.1005	
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS

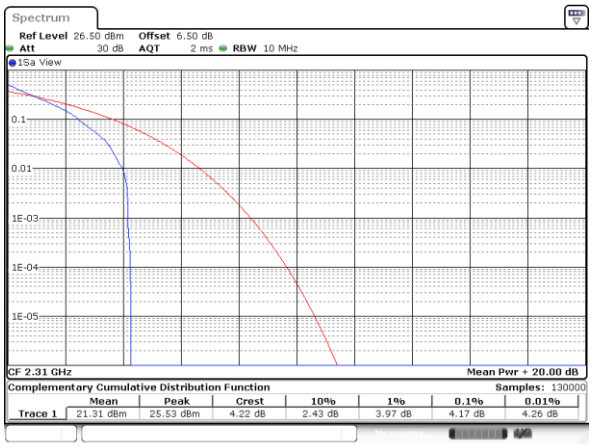
LTE Band 30

Peak-to-Average Ratio

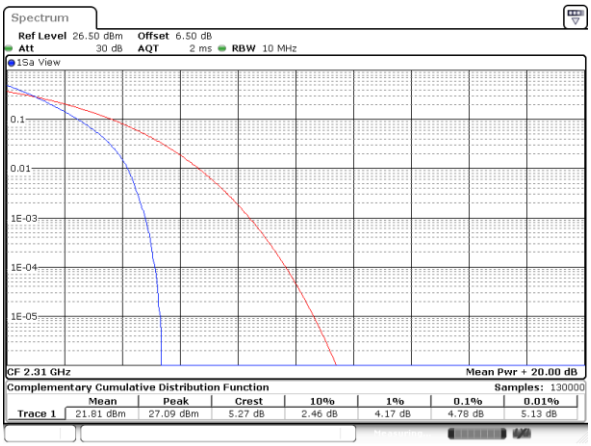
Mode	LTE Band 30 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.17	4.78	4.75	5.65	
Highest CH	-	-	-	-	
Mode	LTE Band 30 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.84	5.71	-	-	
Highest CH	-	-	-	-	

LTE Band 30 / 10MHz / QPSK

Middle Channel / 1RB

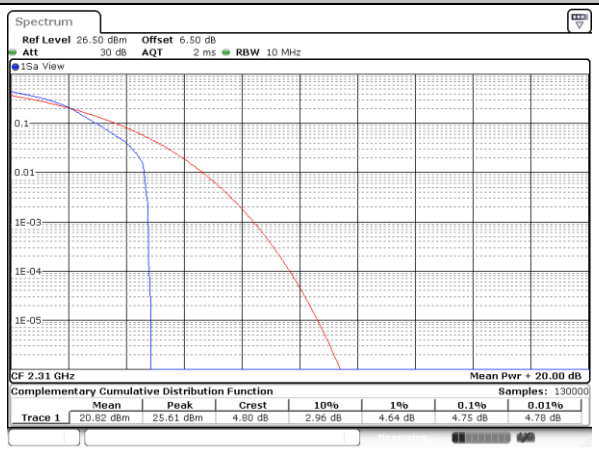


Middle Channel / Full RB

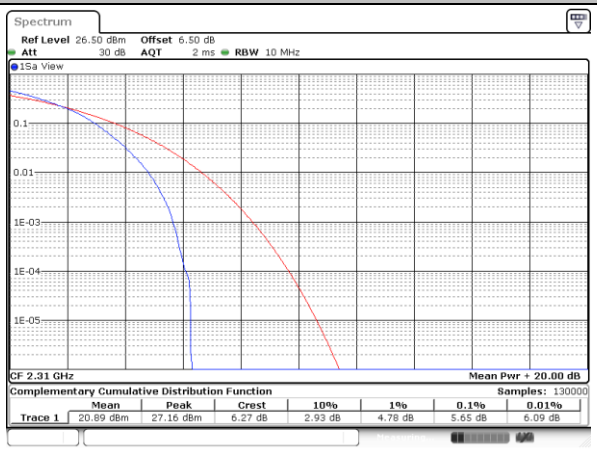


LTE Band 30 / 10MHz / 16QAM

Middle Channel / 1RB

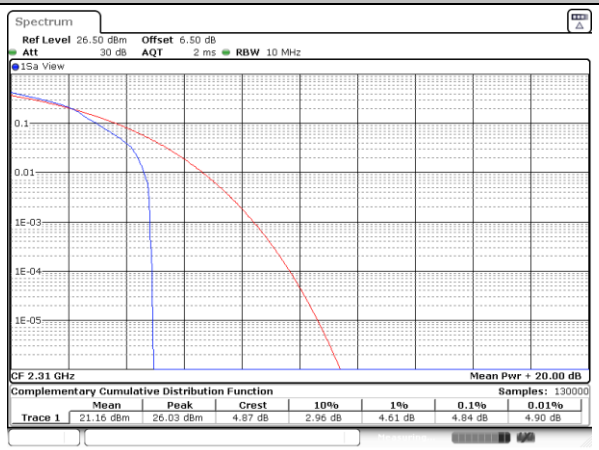


Middle Channel / Full RB

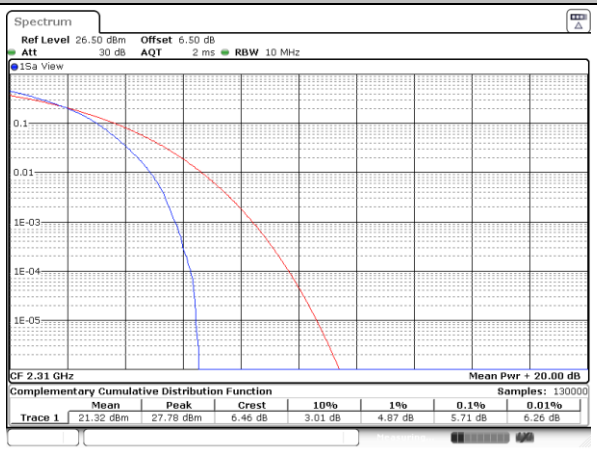


LTE Band 30 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB

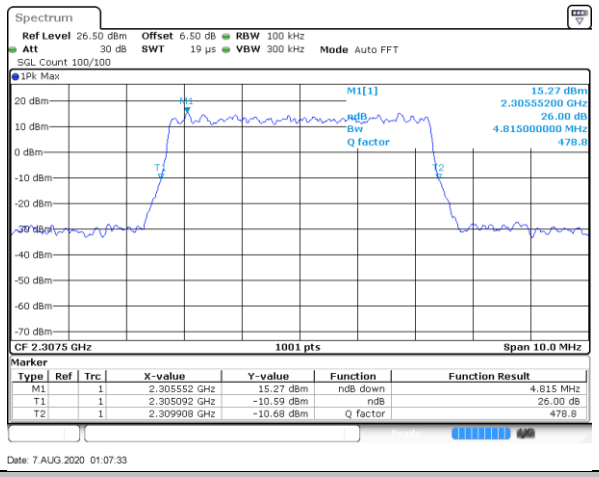


26dB Bandwidth

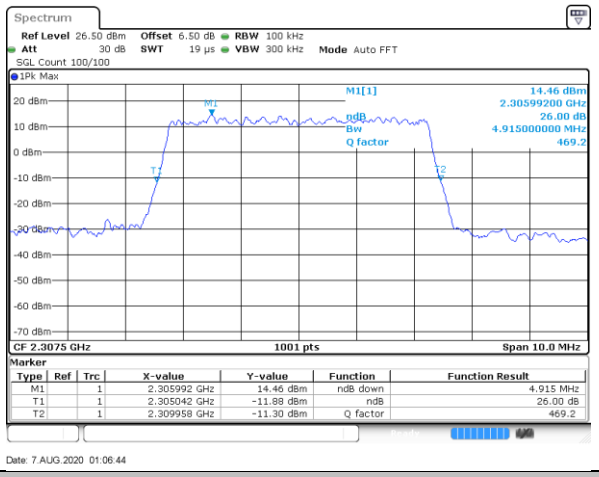
Mode	LTE Band 30			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.82	4.92	-	-
Middle CH	4.96	4.88	9.69	9.83
Highest CH	4.93	4.92	-	-
Mode	LTE Band 30			
BW	5MHz		10MHz	
Mod.	64QAM		64QAM	
Lowest CH	4.87		-	
Middle CH	4.90		10.01	
Highest CH	4.91		-	

LTE Band 30

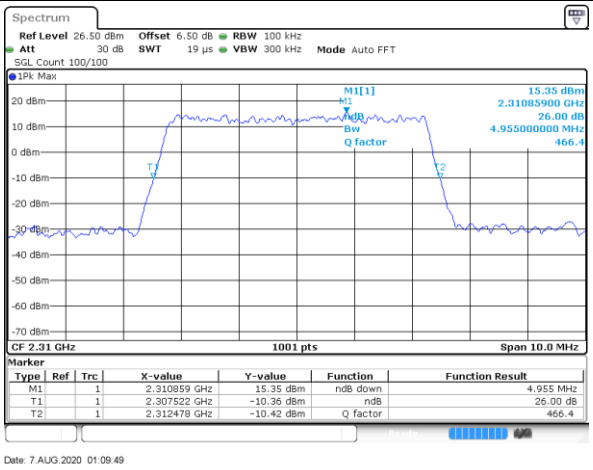
Lowest Channel / 5MHz / QPSK



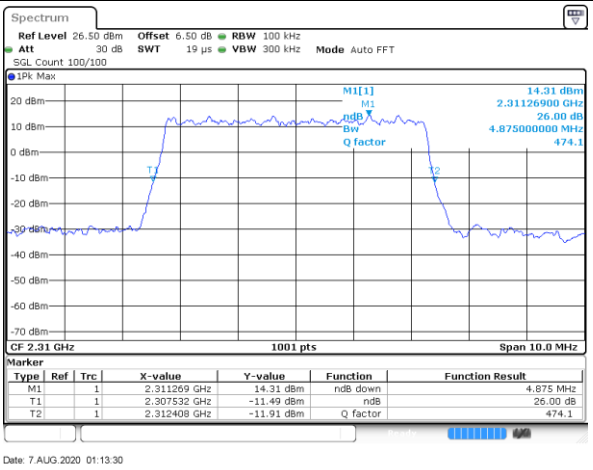
Lowest Channel / 5MHz / 16QAM



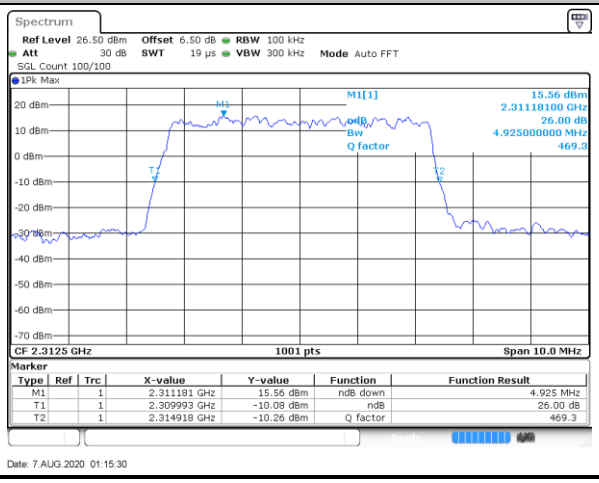
Middle Channel / 5MHz / QPSK



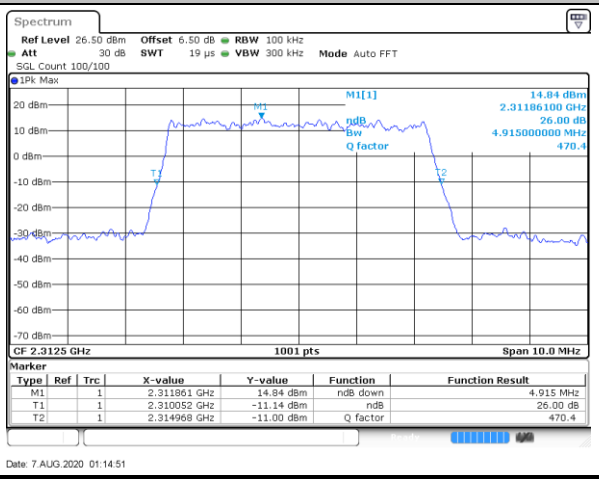
Middle Channel / 5MHz / 16QAM



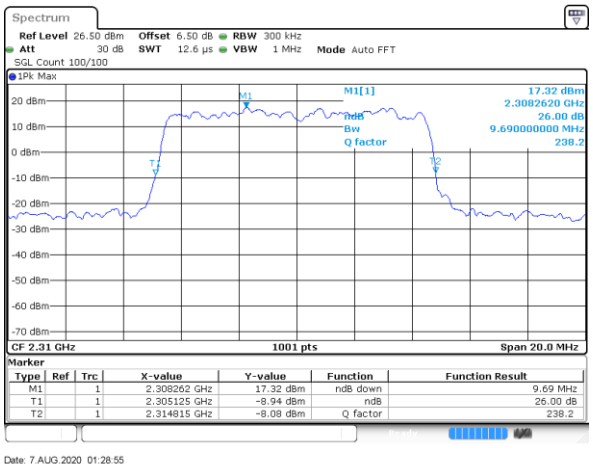
Highest Channel / 5MHz / QPSK

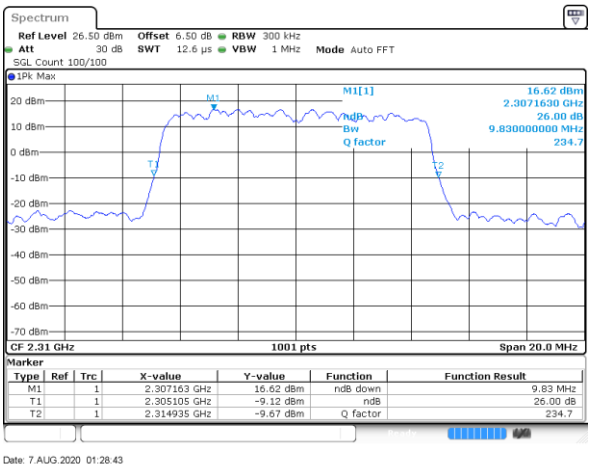


Highest Channel / 5MHz / 16QAM



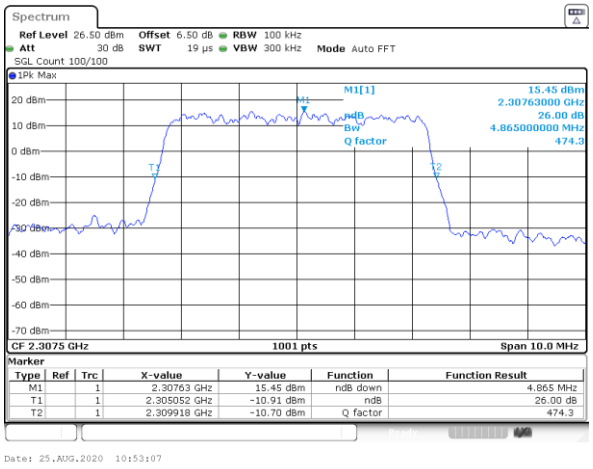
LTE Band 30	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**



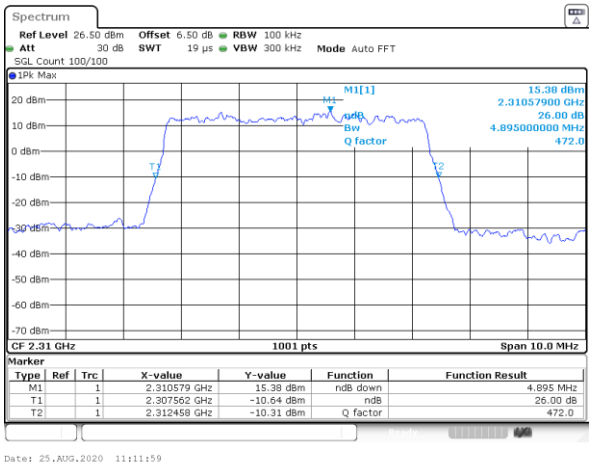


LTE Band 30

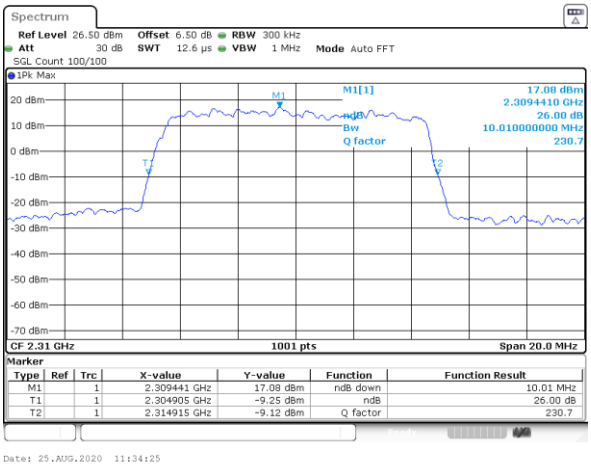
Lowest Channel / 5MHz / 64QAM



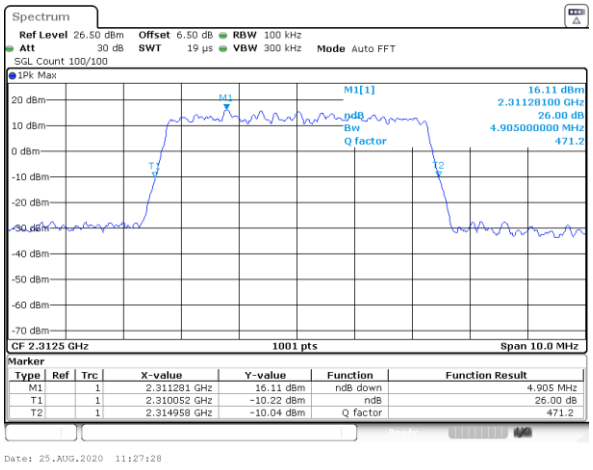
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



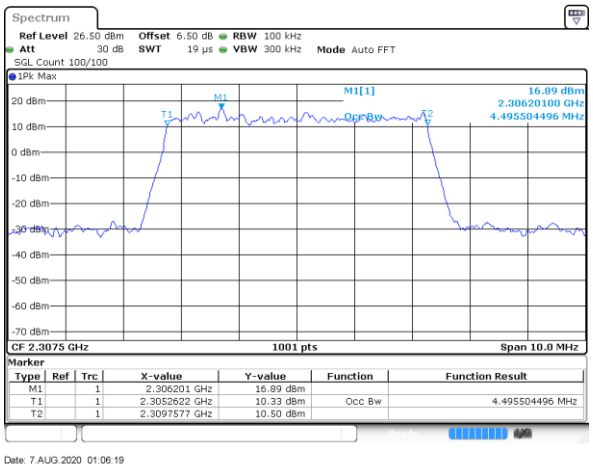
Occupied Bandwidth

Mode	LTE Band 30			
BW	5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.50	4.49	-	-
Middle CH	4.49	4.48	9.01	8.97
Highest CH	4.48	4.50	-	-

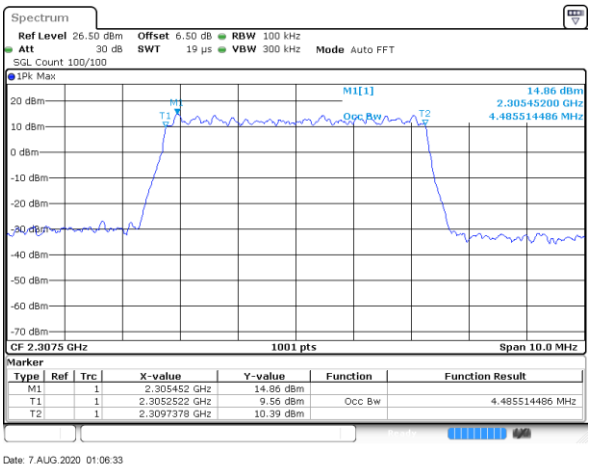
Mode	LTE Band 30	
BW	5MHz	10MHz
Mod.	64QAM	64QAM
Lowest CH	4.49	-
Middle CH	4.50	9.05
Highest CH	4.48	-

LTE Band 30

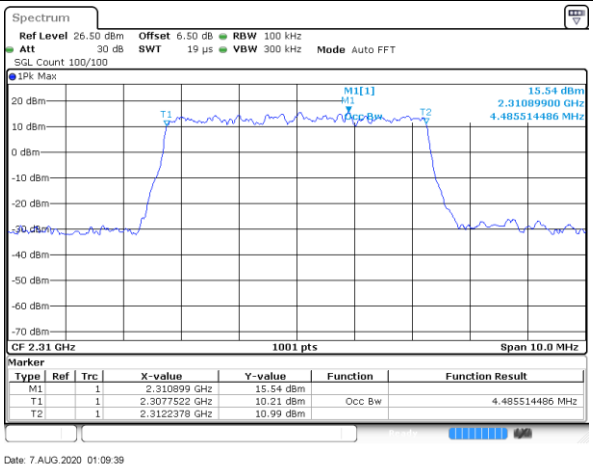
Lowest Channel / 5MHz / QPSK



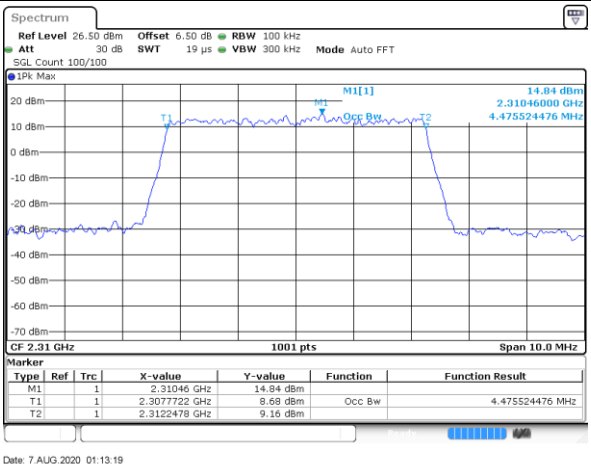
Lowest Channel / 5MHz / 16QAM



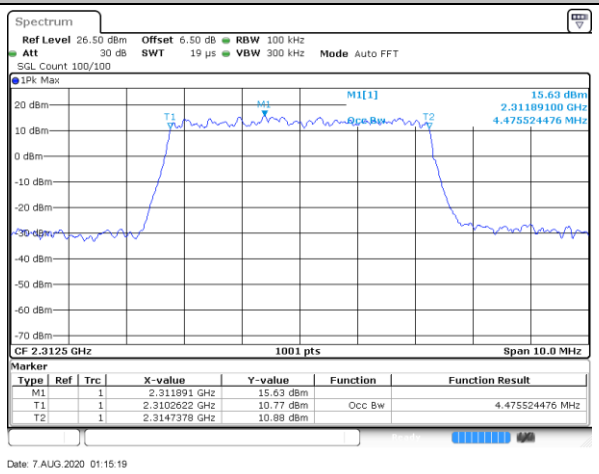
Middle Channel / 5MHz / QPSK



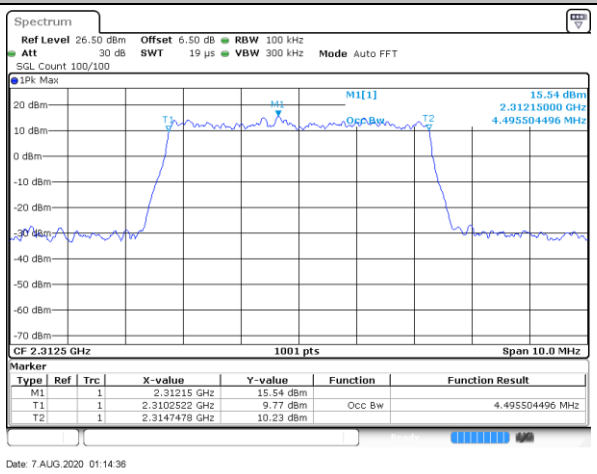
Middle Channel / 5MHz / 16QAM



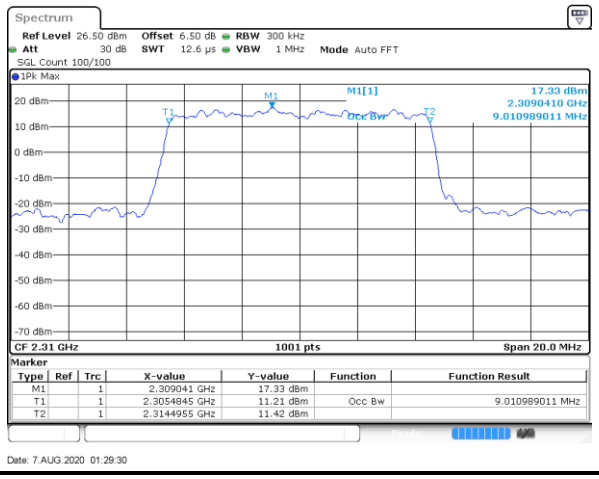
Highest Channel / 5MHz / QPSK

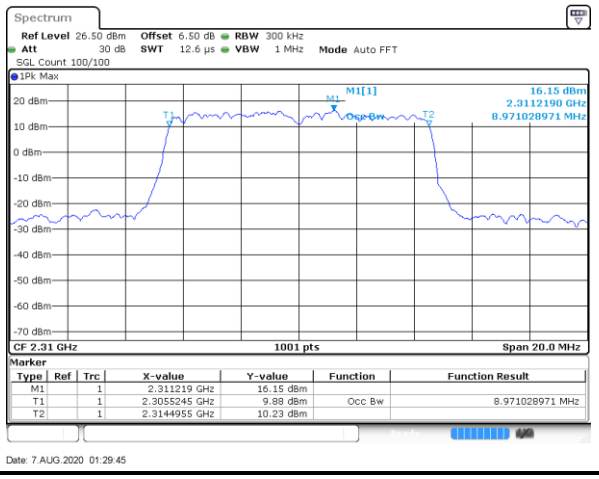


Highest Channel / 5MHz / 16QAM



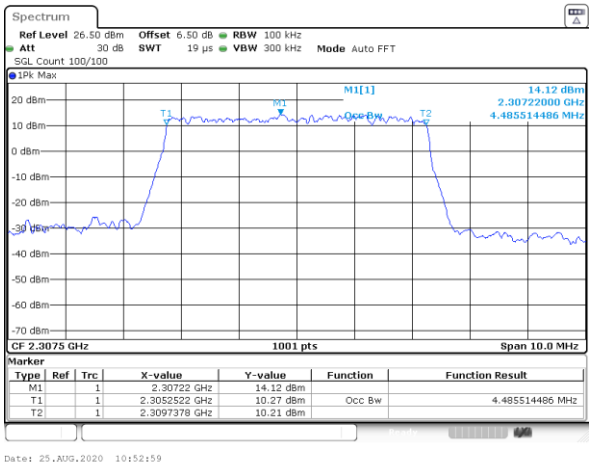
LTE Band 30	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**



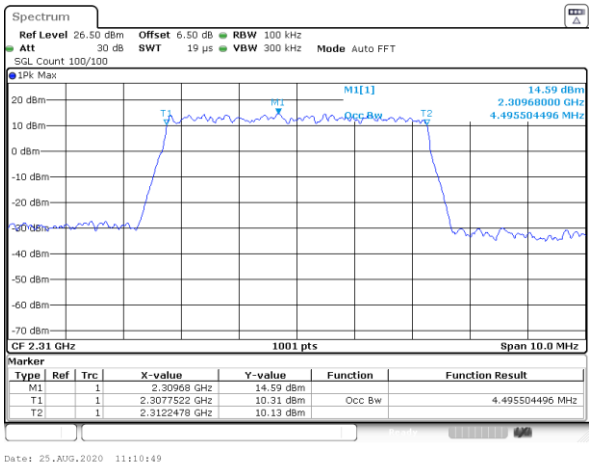


LTE Band 30

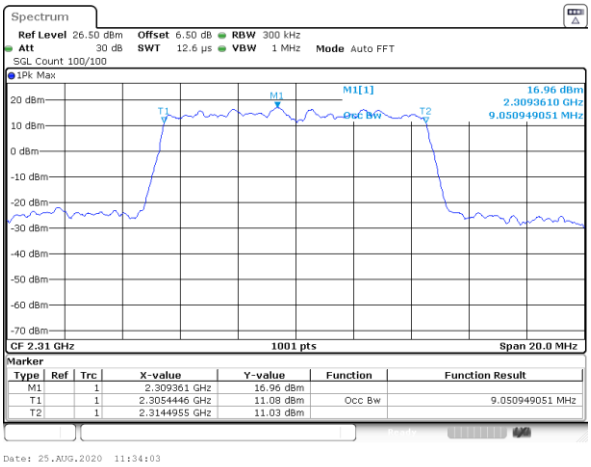
Lowest Channel / 5MHz / 64QAM



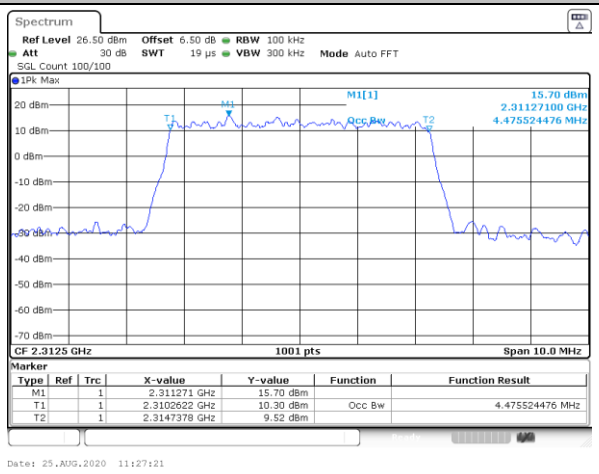
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



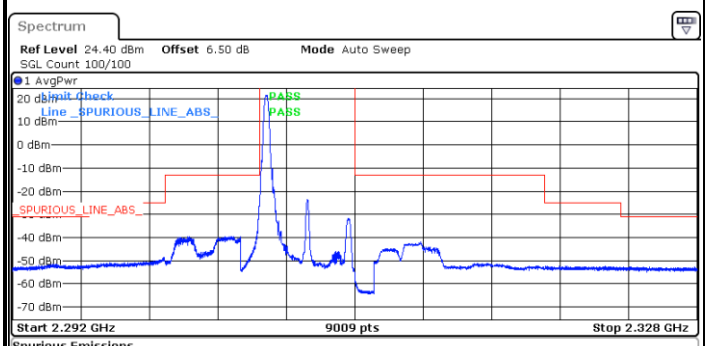
Highest Channel / 5MHz / 64QAM



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	2.29424 GHz	-51.63 dBm	-20.63 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29994 GHz	-48.53 dBm	-23.53 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30364 GHz	-39.47 dBm	-26.47 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-22.77 dBm	-9.77 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30531 GHz	21.34 dBm	-8.66 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-58.56 dBm	-45.56 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31345 GHz	-42.06 dBm	-29.06 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-52.25 dBm	-27.25 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32442 GHz	-52.71 dBm	-21.71 dB

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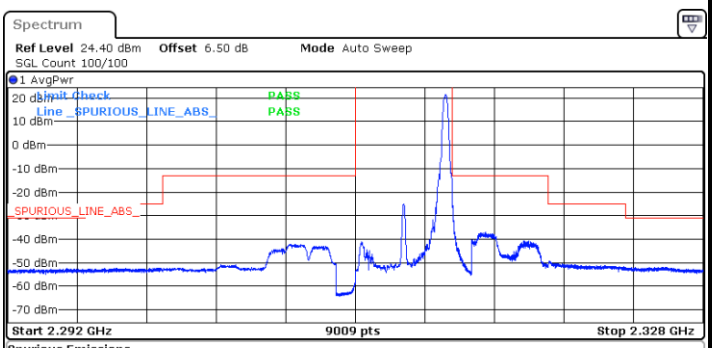
Highest Band Edge / 1 RB

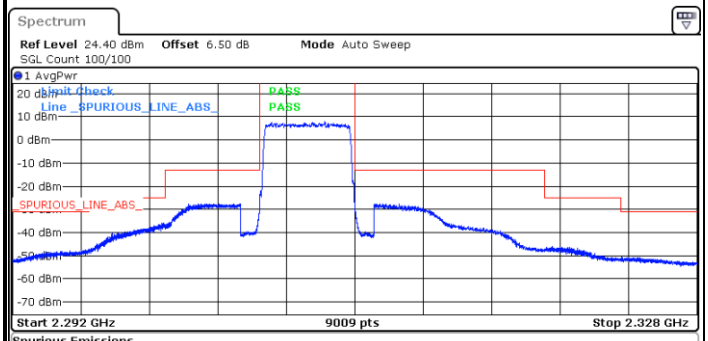


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29505 GHz	-52.51 dBm	-21.51 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29989 GHz	-52.21 dBm	-27.21 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30659 GHz	-42.17 dBm	-29.17 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-58.28 dBm	-45.28 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31470 GHz	21.46 dBm	-8.54 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-22.36 dBm	-9.36 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31674 GHz	-37.13 dBm	-24.13 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32000 GHz	-49.20 dBm	-24.20 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32606 GHz	-51.87 dBm	-20.87 dB

Date: 7.AUG.2020 01:22:43

Lowest Band Edge / Full RB

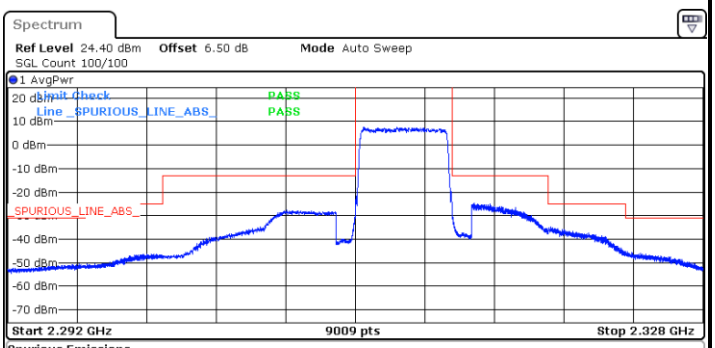


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-47.32 dBm	-16.32 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29985 GHz	-35.72 dBm	-10.72 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30360 GHz	-27.51 dBm	-14.51 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-29.82 dBm	-16.82 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30842 GHz	7.84 dBm	-22.16 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-29.72 dBm	-16.72 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31232 GHz	-27.71 dBm	-14.71 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32037 GHz	-46.14 dBm	-21.14 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-50.55 dBm	-19.55 dB

Date: 7.AUG.2020 01:19:30

Highest Band Edge / Full RB



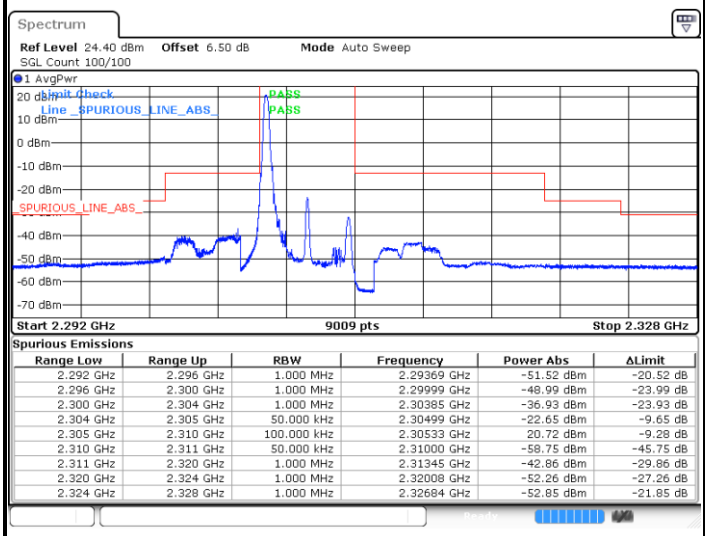
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29567 GHz	-50.67 dBm	-19.67 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29944 GHz	-46.28 dBm	-21.28 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30644 GHz	-27.58 dBm	-14.58 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-29.42 dBm	-16.42 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31216 GHz	7.48 dBm	-22.52 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-28.99 dBm	-15.99 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31615 GHz	-24.75 dBm	-11.75 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32010 GHz	-34.91 dBm	-9.91 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32407 GHz	-45.43 dBm	-14.43 dB

Date: 7.AUG.2020 01:23:24

LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB

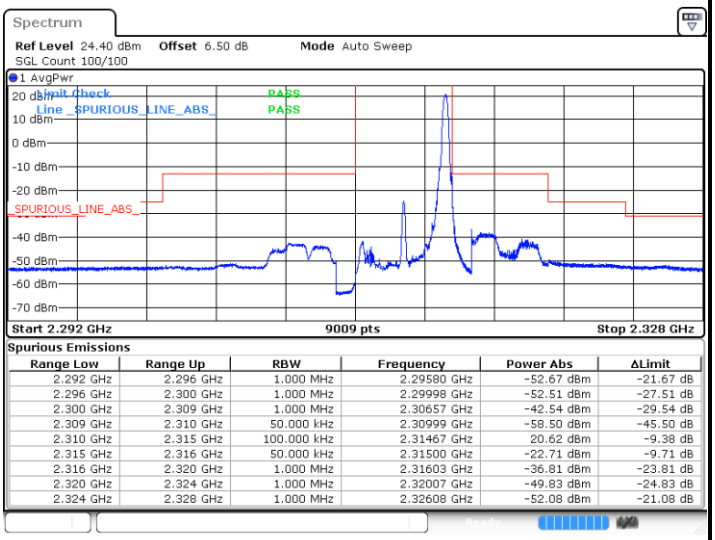


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29369 GHz	-51.52 dBm	-20.52 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29999 GHz	-48.99 dBm	-23.99 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30385 GHz	-36.93 dBm	-23.93 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-22.65 dBm	-9.65 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30533 GHz	20.72 dBm	-9.28 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-58.75 dBm	-45.75 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31345 GHz	-42.86 dBm	-29.86 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32008 GHz	-52.26 dBm	-27.26 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32684 GHz	-52.85 dBm	-21.85 dB

Date: 7.AUG.2020 01:20:57

Highest Band Edge / 1 RB

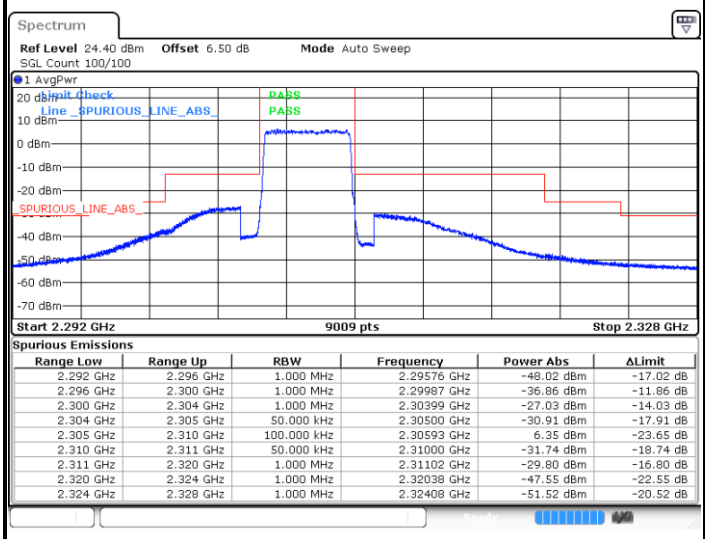


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29580 GHz	-52.67 dBm	-21.67 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29998 GHz	-52.51 dBm	-27.51 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30657 GHz	-42.54 dBm	-29.54 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-58.50 dBm	-45.50 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31467 GHz	20.62 dBm	-9.38 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-22.71 dBm	-9.71 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-36.81 dBm	-23.81 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32007 GHz	-49.83 dBm	-24.83 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32608 GHz	-52.08 dBm	-21.08 dB

Date: 7.AUG.2020 01:22:01

Lowest Band Edge / Full RB

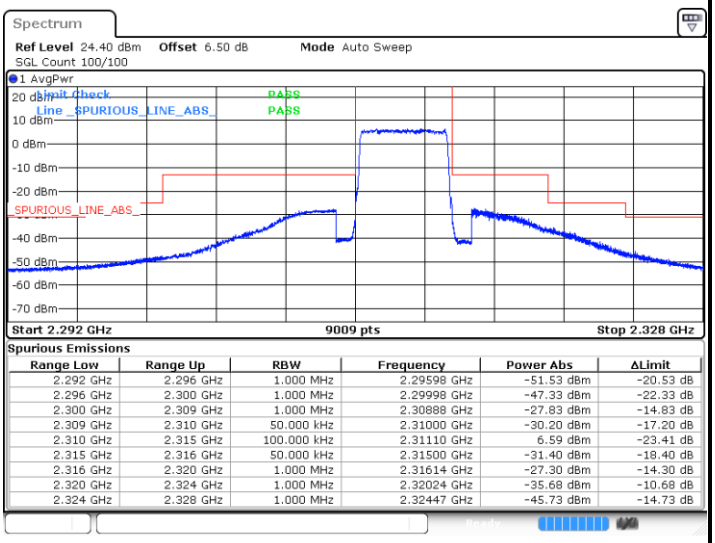


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29576 GHz	-48.02 dBm	-17.02 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29987 GHz	-36.86 dBm	-11.86 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30399 GHz	-27.03 dBm	-14.03 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-30.91 dBm	-17.91 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30593 GHz	6.35 dBm	-23.65 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-31.74 dBm	-18.74 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31102 GHz	-29.80 dBm	-16.80 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32038 GHz	-47.55 dBm	-22.55 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32408 GHz	-51.52 dBm	-20.52 dB

Date: 7.AUG.2020 01:18:44

Highest Band Edge / Full RB



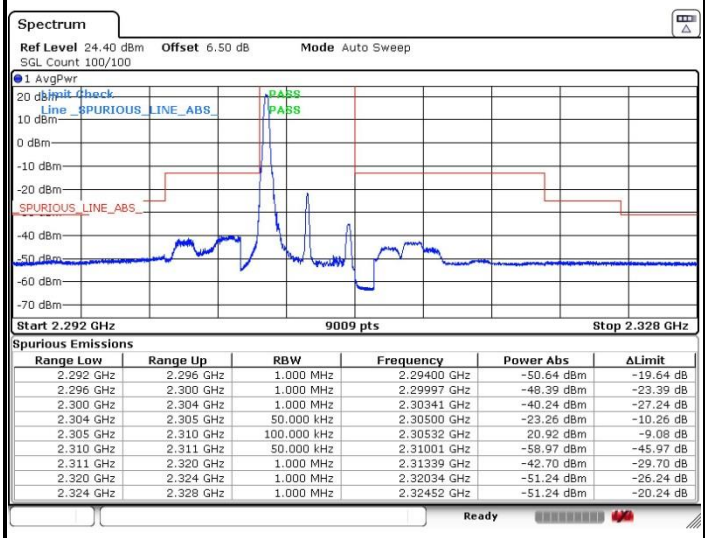
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-51.53 dBm	-20.53 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29998 GHz	-47.33 dBm	-22.33 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30888 GHz	-27.83 dBm	-14.83 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-30.20 dBm	-17.20 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31110 GHz	6.59 dBm	-23.41 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-31.40 dBm	-18.40 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31614 GHz	-27.30 dBm	-14.30 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32024 GHz	-35.68 dBm	-10.68 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32447 GHz	-45.73 dBm	-14.73 dB

Date: 7.AUG.2020 01:24:01

LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1RB

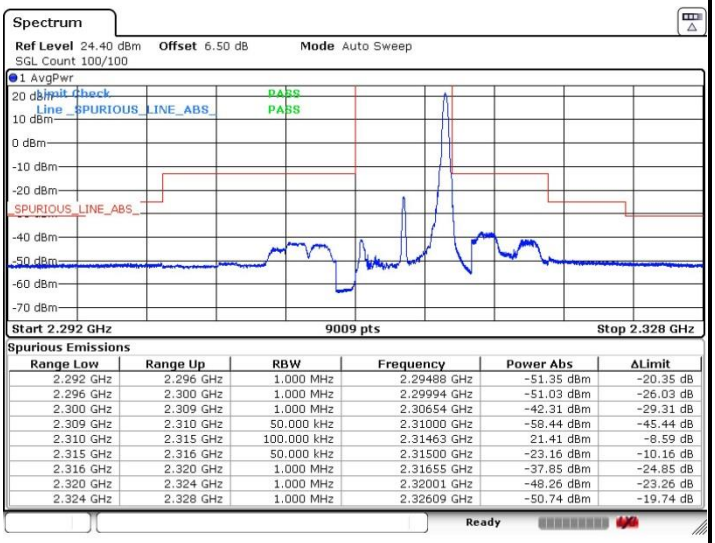


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29400 GHz	-50.64 dBm	-19.64 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29997 GHz	-48.39 dBm	-23.39 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30341 GHz	-40.24 dBm	-27.24 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-23.26 dBm	-10.26 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30532 GHz	20.92 dBm	-9.08 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-58.97 dBm	-45.97 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31339 GHz	-42.70 dBm	-29.70 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32034 GHz	-51.24 dBm	-26.24 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32452 GHz	-51.24 dBm	-20.24 dB

Date: 25.AUG.2020 10:57:42

Highest Band Edge / 1 RB

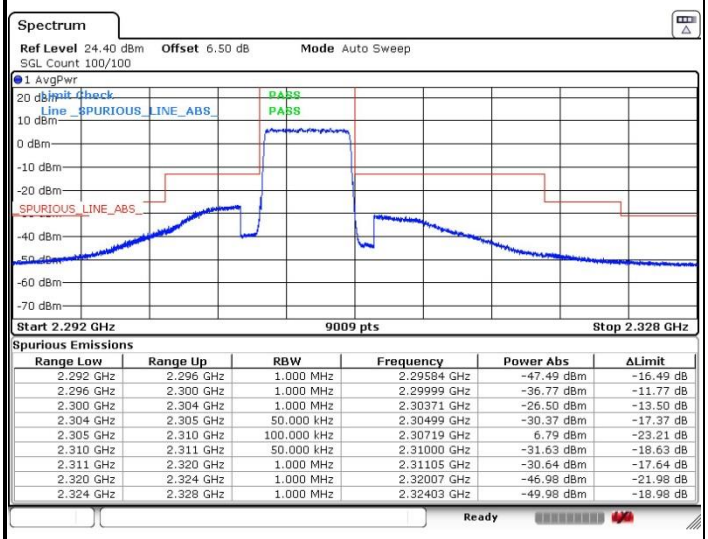


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29488 GHz	-51.35 dBm	-20.35 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29994 GHz	-51.03 dBm	-26.03 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30654 GHz	-42.31 dBm	-29.31 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-58.44 dBm	-45.44 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31463 GHz	21.41 dBm	-8.59 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-23.16 dBm	-10.16 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31655 GHz	-37.85 dBm	-24.85 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32001 GHz	-48.26 dBm	-23.26 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32609 GHz	-50.74 dBm	-19.74 dB

Date: 25.AUG.2020 11:25:09

Lowest Band Edge / Full RB

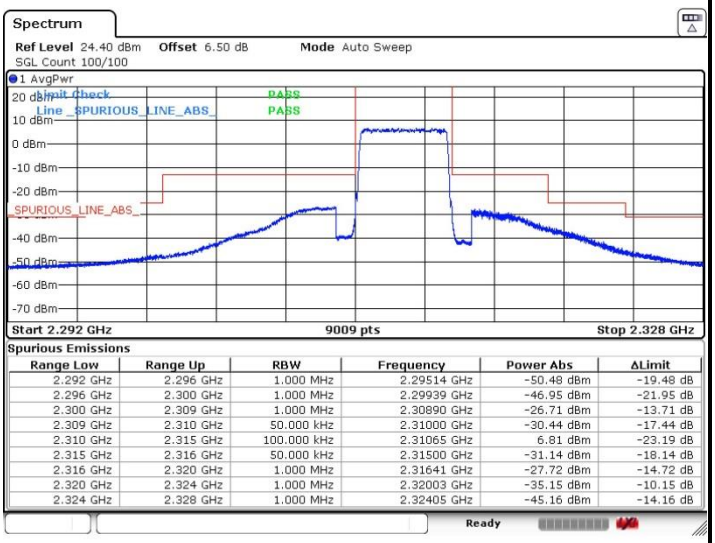


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29584 GHz	-47.49 dBm	-16.49 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29999 GHz	-36.77 dBm	-11.77 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30371 GHz	-26.50 dBm	-13.50 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-30.37 dBm	-17.37 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30719 GHz	6.79 dBm	-23.21 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-31.63 dBm	-18.63 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31105 GHz	-30.64 dBm	-17.64 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32007 GHz	-46.98 dBm	-21.98 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-49.98 dBm	-18.98 dB

Date: 25.AUG.2020 11:18:14

Highest Band Edge / Full RB



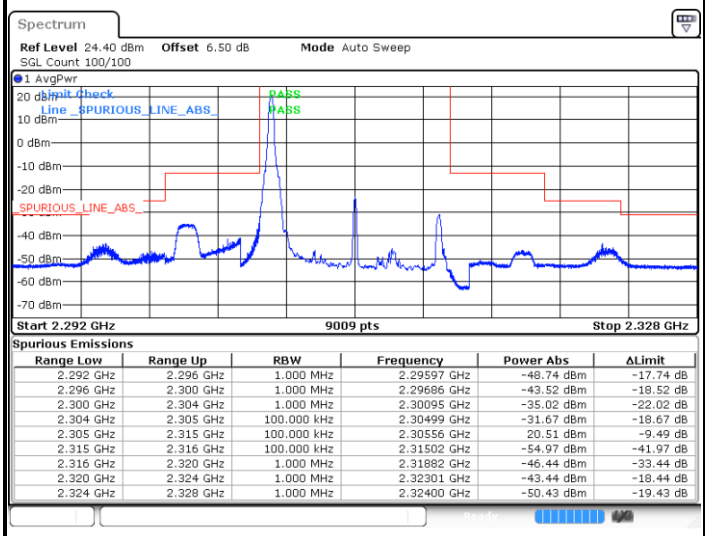
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29514 GHz	-50.48 dBm	-19.48 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29939 GHz	-46.95 dBm	-21.95 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30890 GHz	-26.71 dBm	-13.71 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-30.44 dBm	-17.44 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31065 GHz	6.81 dBm	-23.19 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-31.14 dBm	-18.14 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31641 GHz	-27.72 dBm	-14.72 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-35.15 dBm	-10.15 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-45.16 dBm	-14.16 dB

Date: 25.AUG.2020 11:26:41

LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB

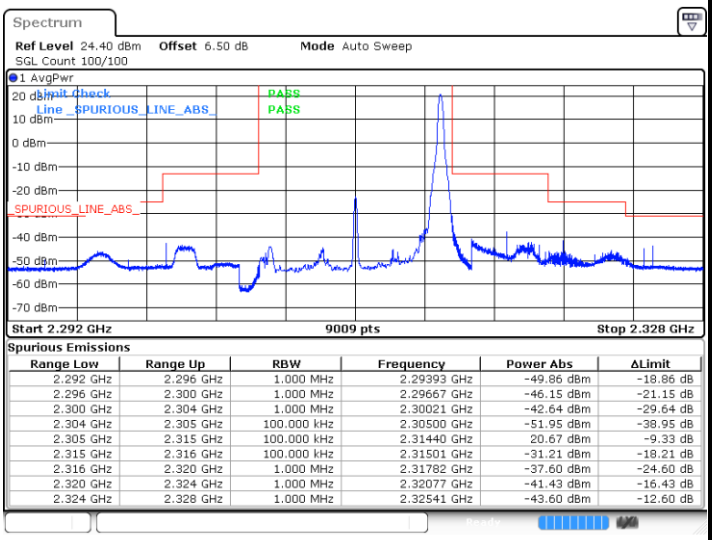


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-48.74 dBm	-17.74 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29686 GHz	-43.52 dBm	-18.52 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30095 GHz	-35.02 dBm	-22.02 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-31.67 dBm	-18.67 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30556 GHz	20.51 dBm	-9.49 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31502 GHz	-54.97 dBm	-41.97 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31882 GHz	-46.44 dBm	-33.44 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32301 GHz	-43.44 dBm	-18.44 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-50.43 dBm	-19.43 dB

Date: 7.AUG.2020 01:30:28

Highest Band Edge / 1 RB

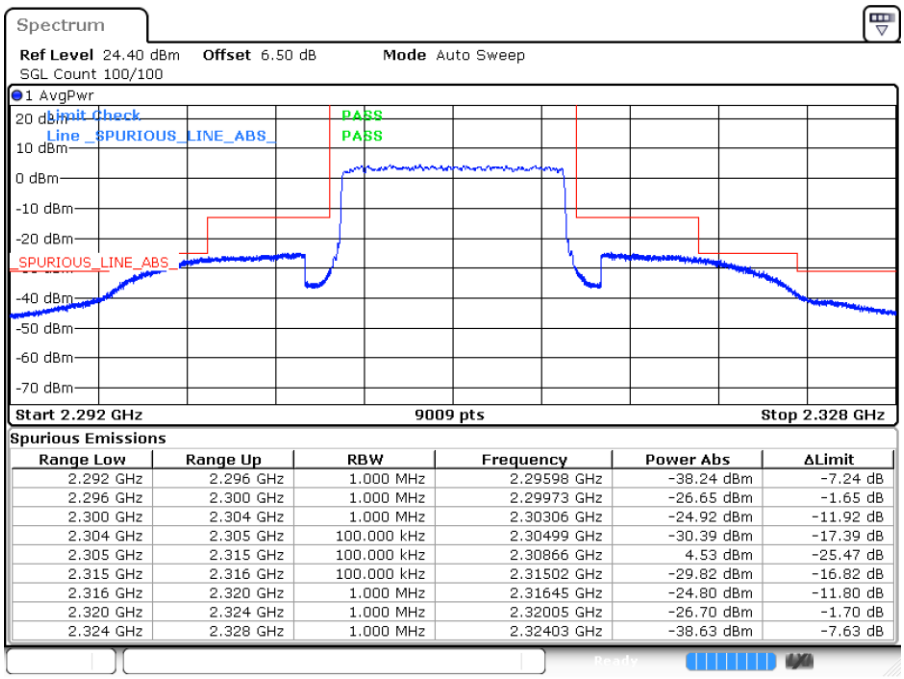


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29393 GHz	-49.86 dBm	-18.86 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29667 GHz	-46.15 dBm	-21.15 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30021 GHz	-42.64 dBm	-29.64 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-51.95 dBm	-38.95 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	20.67 dBm	-9.33 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-31.21 dBm	-18.21 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31782 GHz	-37.60 dBm	-24.60 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32077 GHz	-41.43 dBm	-16.43 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32541 GHz	-43.60 dBm	-12.60 dB

Date: 7.AUG.2020 01:31:35

Band Edge / Full RB



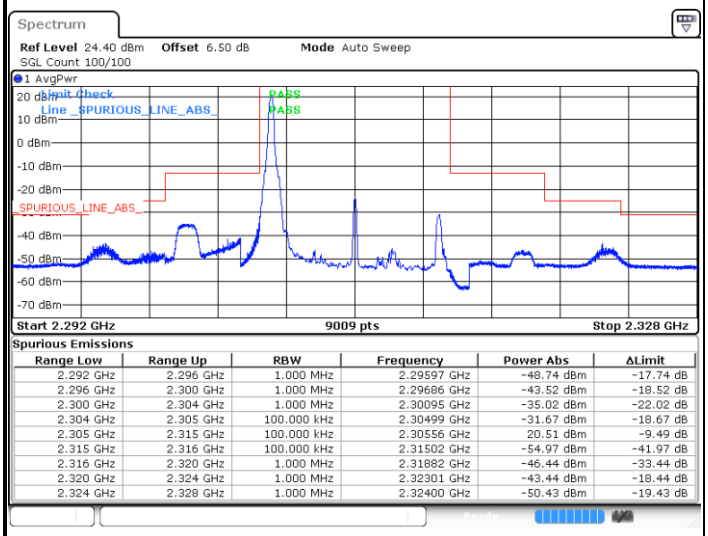
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29598 GHz	-38.24 dBm	-7.24 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29973 GHz	-26.65 dBm	-1.65 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30306 GHz	-24.92 dBm	-11.92 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-30.39 dBm	-17.39 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30866 GHz	4.53 dBm	-25.47 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31502 GHz	-29.82 dBm	-16.82 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31645 GHz	-24.80 dBm	-11.80 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32005 GHz	-26.70 dBm	-1.70 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-38.63 dBm	-7.63 dB

Date: 7.AUG.2020 01:32:24

LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

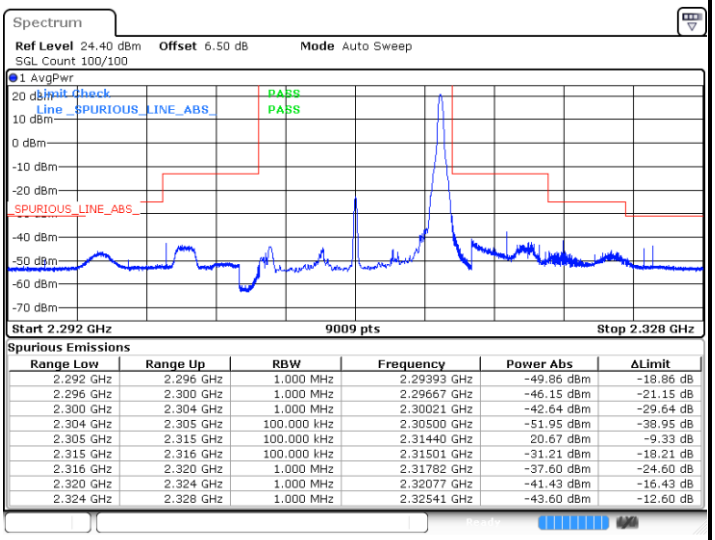


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-48.74 dBm	-17.74 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29686 GHz	-43.52 dBm	-18.52 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30095 GHz	-35.02 dBm	-22.02 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-31.67 dBm	-18.67 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30556 GHz	20.51 dBm	-9.49 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31502 GHz	-54.97 dBm	-41.97 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31882 GHz	-46.44 dBm	-33.44 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32301 GHz	-43.44 dBm	-18.44 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-50.43 dBm	-19.43 dB

Date: 7.AUG.2020 01:30:28

Highest Band Edge / 1 RB

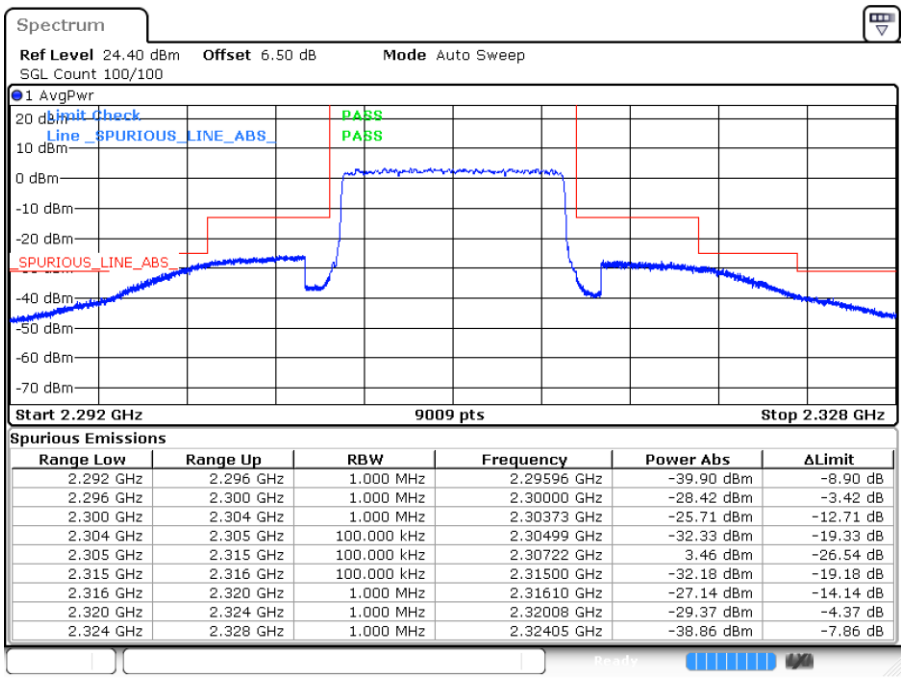


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29393 GHz	-49.86 dBm	-18.86 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29667 GHz	-46.15 dBm	-21.15 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30021 GHz	-42.64 dBm	-29.64 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-51.95 dBm	-38.95 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	20.67 dBm	-9.33 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-31.21 dBm	-18.21 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31782 GHz	-37.60 dBm	-24.60 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32077 GHz	-41.43 dBm	-16.43 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32541 GHz	-43.60 dBm	-12.60 dB

Date: 7.AUG.2020 01:31:35

Band Edge / Full RB



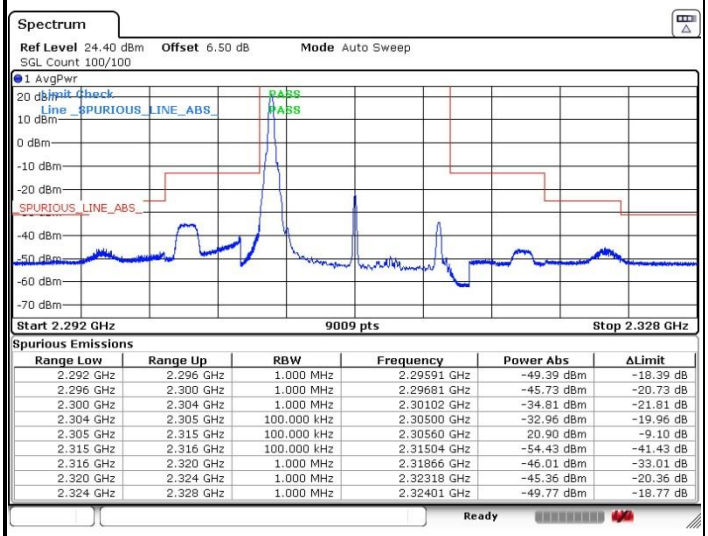
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29596 GHz	-39.90 dBm	-8.90 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.30000 GHz	-28.42 dBm	-3.42 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30373 GHz	-25.71 dBm	-12.71 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-32.33 dBm	-19.33 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30722 GHz	3.46 dBm	-26.54 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-32.18 dBm	-19.18 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31610 GHz	-27.14 dBm	-14.14 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32008 GHz	-29.37 dBm	-4.37 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32405 GHz	-38.86 dBm	-7.86 dB

Date: 7.AUG.2020 01:32:04

LTE Band 30 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

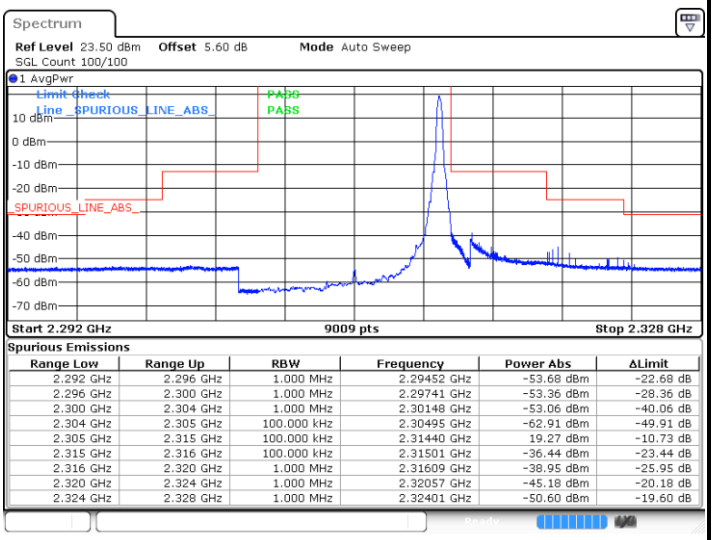


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29591 GHz	-49.39 dBm	-18.39 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29681 GHz	-45.73 dBm	-20.73 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30102 GHz	-34.81 dBm	-21.81 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-32.96 dBm	-19.96 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30560 GHz	20.90 dBm	-9.10 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31504 GHz	-54.43 dBm	-41.43 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31866 GHz	-46.01 dBm	-33.01 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32318 GHz	-45.36 dBm	-20.36 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-49.77 dBm	-18.77 dB

Date: 25.AUG.2020 11:37:22

Highest Band Edge / 1 RB

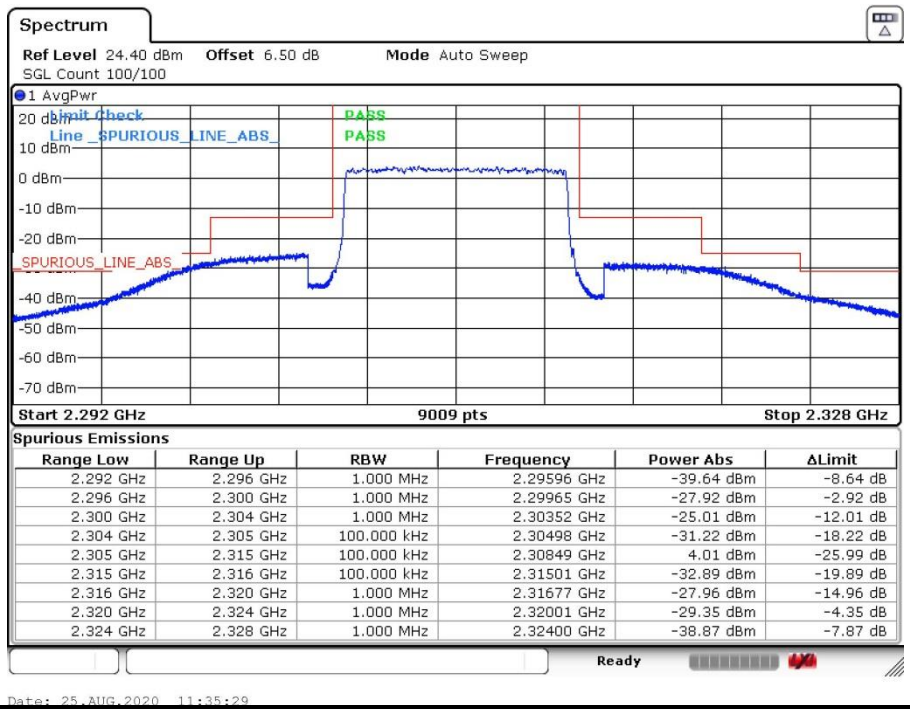


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29452 GHz	-53.68 dBm	-22.68 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29741 GHz	-53.36 dBm	-28.36 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30148 GHz	-53.06 dBm	-40.06 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30495 GHz	-62.91 dBm	-49.91 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	19.27 dBm	-10.73 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-36.44 dBm	-23.44 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31609 GHz	-38.95 dBm	-25.95 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32057 GHz	-45.18 dBm	-20.18 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-50.60 dBm	-19.60 dB

Date: 1.SEP.2020 18:01:00

Band Edge / Full RB



Spurious Emissions

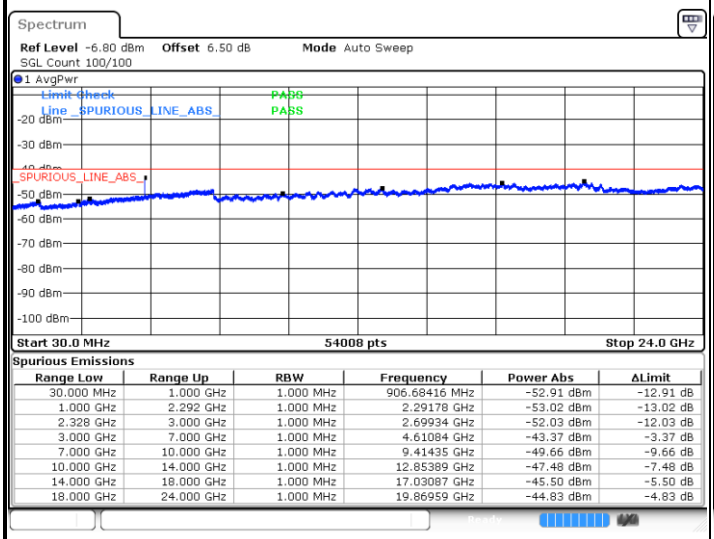
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29596 GHz	-39.64 dBm	-8.64 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29965 GHz	-27.92 dBm	-2.92 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30352 GHz	-25.01 dBm	-12.01 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30498 GHz	-31.22 dBm	-18.22 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30849 GHz	4.01 dBm	-25.99 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-32.89 dBm	-19.89 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31677 GHz	-27.96 dBm	-14.96 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32001 GHz	-29.35 dBm	-4.35 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-38.87 dBm	-7.87 dB

Date: 25.AUG.2020 11:35:29

Conducted Spurious Emission

LTE Band 30 / 5MHz

Lowest Channel / QPSK

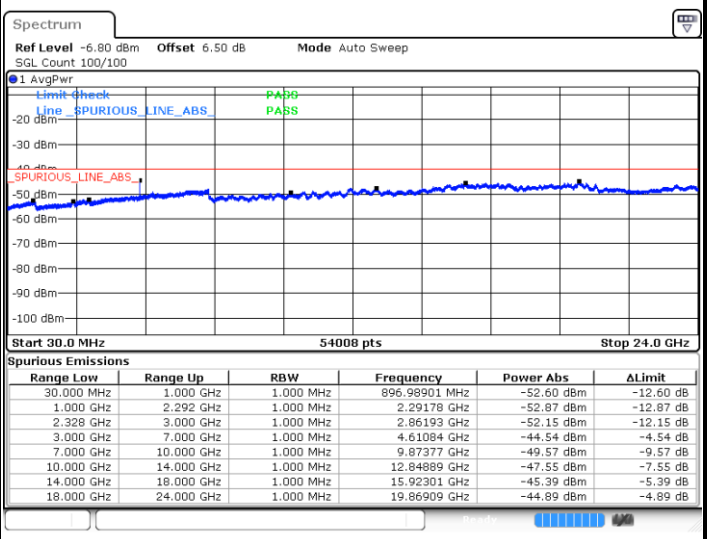


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	906.68416 MHz	-52.91 dBm	-12.91 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-53.02 dBm	-13.02 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.69934 GHz	-52.03 dBm	-12.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61084 GHz	-43.37 dBm	-3.37 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41435 GHz	-49.66 dBm	-9.66 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85389 GHz	-47.48 dBm	-7.48 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03087 GHz	-45.50 dBm	-5.50 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86959 GHz	-44.83 dBm	-4.83 dB

Date: 7.AUG.2020 01:12:07

Lowest Channel / 16QAM

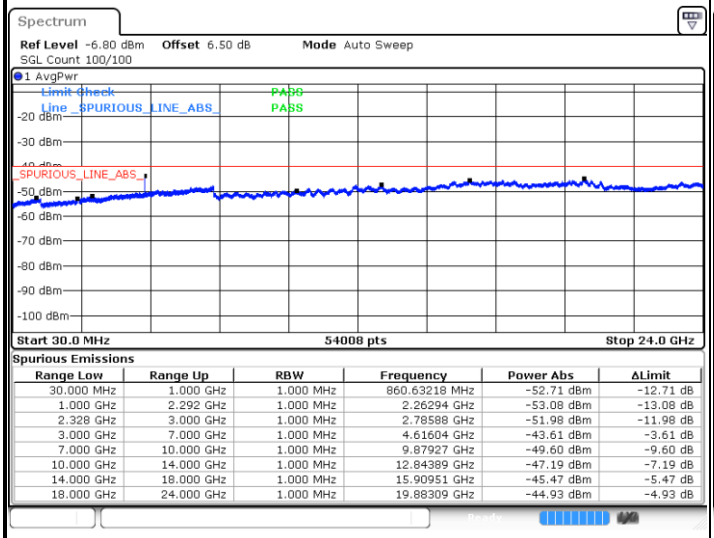


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	896.98901 MHz	-52.60 dBm	-12.60 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29178 GHz	-52.87 dBm	-12.87 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.86193 GHz	-52.15 dBm	-12.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61084 GHz	-44.54 dBm	-4.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87377 GHz	-49.57 dBm	-9.57 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84889 GHz	-47.55 dBm	-7.55 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.92301 GHz	-45.39 dBm	-5.39 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86909 GHz	-44.89 dBm	-4.89 dB

Date: 7.AUG.2020 01:16:48

Middle Channel / QPSK

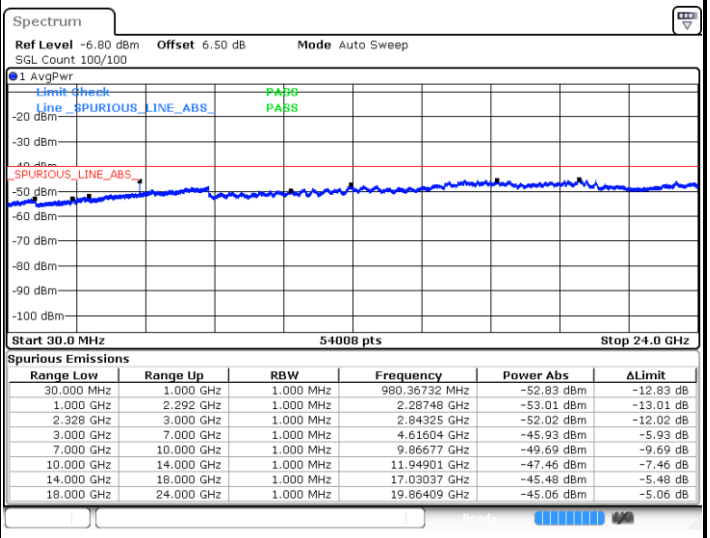


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	860.63218 MHz	-52.71 dBm	-12.71 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.26294 GHz	-53.08 dBm	-13.08 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.78588 GHz	-51.98 dBm	-11.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61604 GHz	-43.61 dBm	-3.61 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87927 GHz	-49.60 dBm	-9.60 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84389 GHz	-47.19 dBm	-7.19 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.90951 GHz	-45.47 dBm	-5.47 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.88309 GHz	-44.93 dBm	-4.93 dB

Date: 7.AUG.2020 01:26:06

Middle Channel / 16QAM



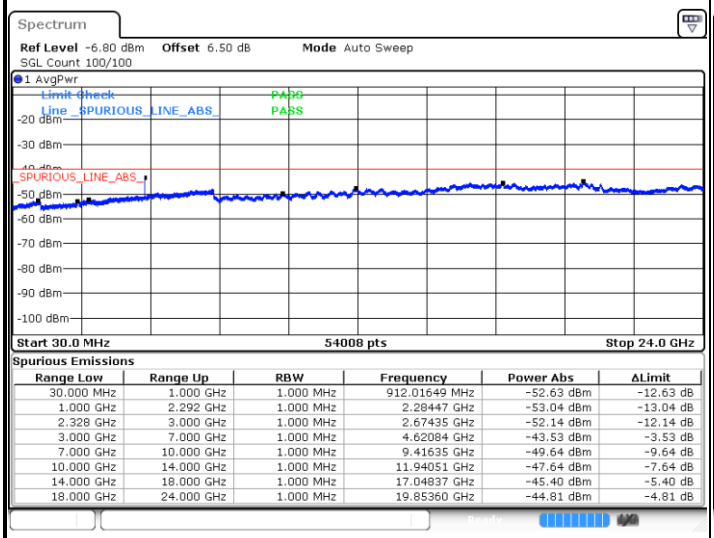
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	980.36732 MHz	-52.83 dBm	-12.83 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28748 GHz	-53.01 dBm	-13.01 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.84325 GHz	-52.02 dBm	-12.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61604 GHz	-45.93 dBm	-5.93 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.86677 GHz	-49.69 dBm	-9.69 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.94901 GHz	-47.46 dBm	-7.46 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03037 GHz	-45.48 dBm	-5.48 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86409 GHz	-45.06 dBm	-5.06 dB

Date: 7.AUG.2020 01:25:18

LTE Band 30 / 5MHz

Highest Channel / QPSK

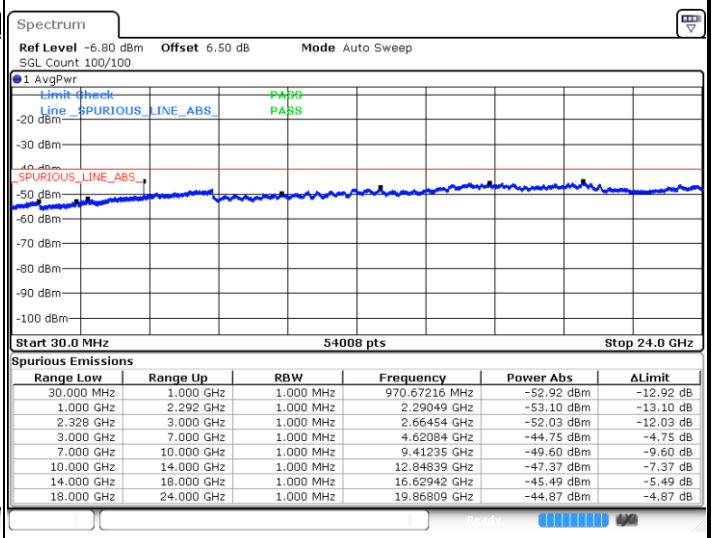


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.01649 MHz	-52.63 dBm	-12.63 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28447 GHz	-53.04 dBm	-13.04 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.67435 GHz	-52.14 dBm	-12.14 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.62084 GHz	-43.53 dBm	-3.53 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41635 GHz	-49.64 dBm	-9.64 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.94051 GHz	-47.64 dBm	-7.64 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04837 GHz	-45.40 dBm	-5.40 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.85360 GHz	-44.81 dBm	-4.81 dB

Date: 7.AUG.2020 01:26:59

Highest Channel / 16QAM



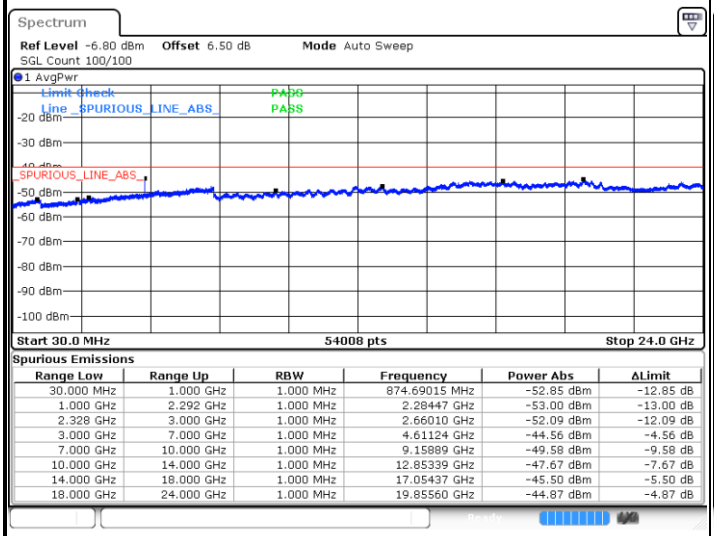
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-52.92 dBm	-12.92 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29049 GHz	-53.10 dBm	-13.10 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.66454 GHz	-52.03 dBm	-12.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.62084 GHz	-44.75 dBm	-4.75 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41235 GHz	-49.60 dBm	-9.60 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84839 GHz	-47.37 dBm	-7.37 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.62942 GHz	-45.49 dBm	-5.49 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86809 GHz	-44.87 dBm	-4.87 dB

Date: 7.AUG.2020 01:27:48

LTE Band 30 / 10MHz

Middle Channel / QPSK

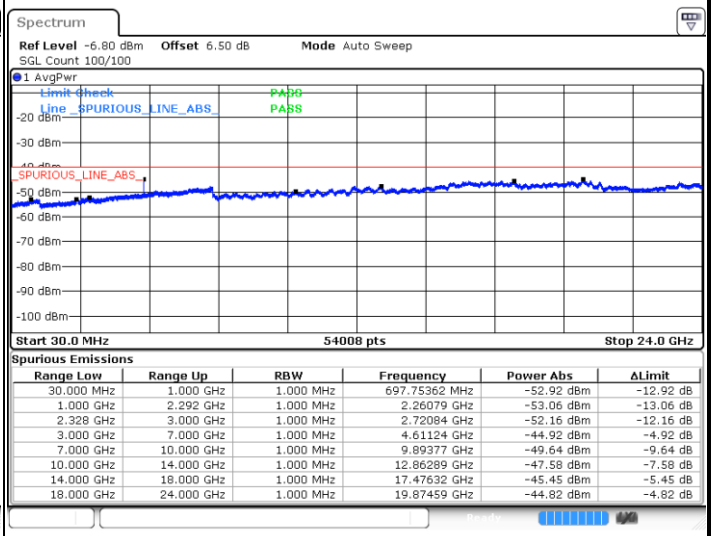


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	874.69015 MHz	-52.85 dBm	-12.85 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28447 GHz	-53.00 dBm	-13.00 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.66010 GHz	-52.09 dBm	-12.09 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61124 GHz	-44.56 dBm	-4.56 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.15889 GHz	-49.58 dBm	-9.58 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85339 GHz	-47.67 dBm	-7.67 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.05437 GHz	-45.50 dBm	-5.50 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.85550 GHz	-44.87 dBm	-4.87 dB

Date: 7.AUG.2020 01:34:47

Middle Channel / 16QAM



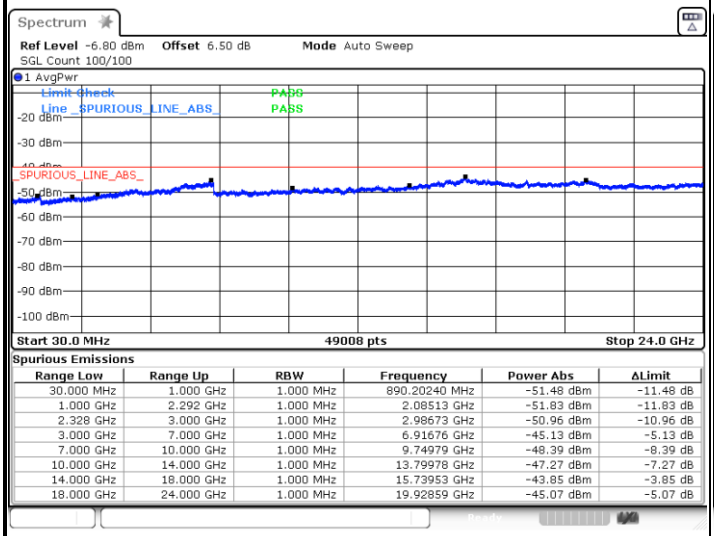
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	697.75362 MHz	-52.92 dBm	-12.92 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.26079 GHz	-53.06 dBm	-13.06 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.72084 GHz	-52.16 dBm	-12.16 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61124 GHz	-44.92 dBm	-4.92 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89377 GHz	-49.64 dBm	-9.64 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.86289 GHz	-47.58 dBm	-7.58 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.47632 GHz	-45.45 dBm	-5.45 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.87459 GHz	-44.82 dBm	-4.82 dB

Date: 7.AUG.2020 01:37:46

LTE Band 30 / 5MHz

Lowest Channel / 64QAM

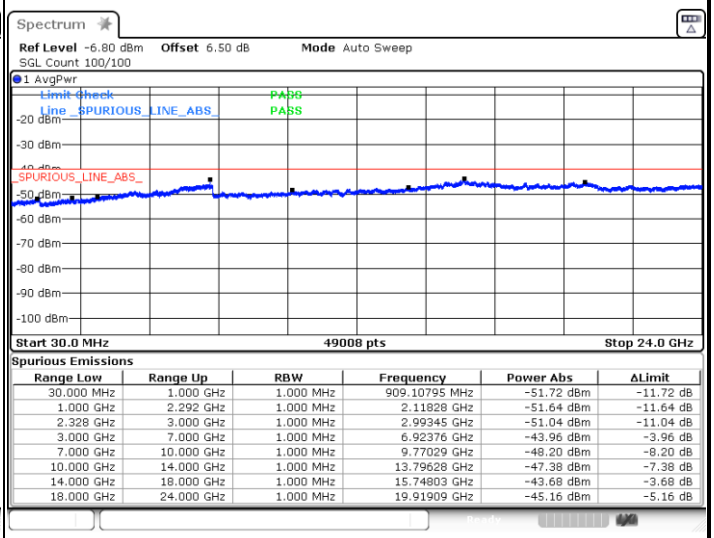


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-51.48 dBm	-11.48 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.08513 GHz	-51.83 dBm	-11.83 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.98673 GHz	-50.96 dBm	-10.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91676 GHz	-45.13 dBm	-5.13 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74979 GHz	-48.39 dBm	-8.39 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79978 GHz	-47.27 dBm	-7.27 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73953 GHz	-43.85 dBm	-3.85 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.92859 GHz	-45.07 dBm	-5.07 dB

Date: 25.AUG.2020 11:07:55

Middle Channel / 64QAM

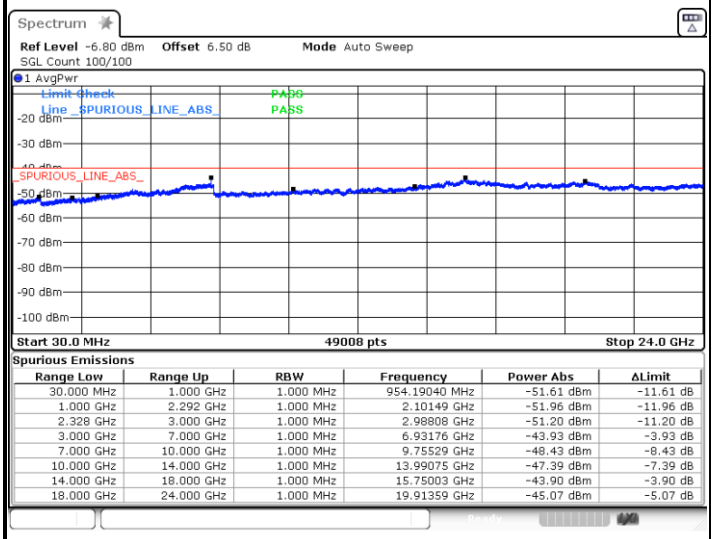


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	909.10795 MHz	-51.72 dBm	-11.72 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.11828 GHz	-51.64 dBm	-11.64 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.99345 GHz	-51.04 dBm	-11.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92376 GHz	-43.96 dBm	-3.96 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.77029 GHz	-48.20 dBm	-8.20 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79628 GHz	-47.38 dBm	-7.38 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.74803 GHz	-43.68 dBm	-3.68 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.91909 GHz	-45.16 dBm	-5.16 dB

Date: 25.AUG.2020 11:21:36

Highest Channel / 64QAM



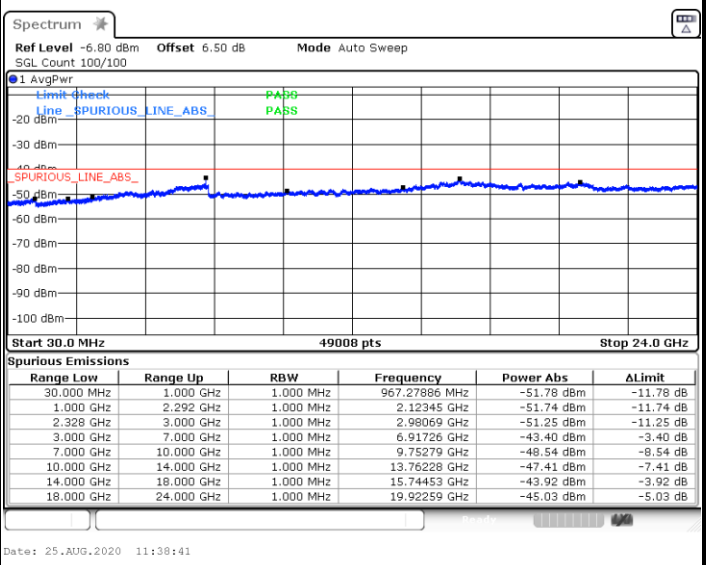
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	954.19040 MHz	-51.61 dBm	-11.61 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.10149 GHz	-51.96 dBm	-11.96 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.98808 GHz	-51.20 dBm	-11.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93176 GHz	-43.93 dBm	-3.93 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.75529 GHz	-48.43 dBm	-8.43 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99075 GHz	-47.39 dBm	-7.39 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.75003 GHz	-43.90 dBm	-3.90 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.91359 GHz	-45.07 dBm	-5.07 dB

Date: 25.AUG.2020 11:23:57

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	967.27886 MHz	-51.78 dBm	-11.78 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.12345 GHz	-51.74 dBm	-11.74 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.98069 GHz	-51.25 dBm	-11.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91726 GHz	-43.40 dBm	-3.40 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.75279 GHz	-48.54 dBm	-8.54 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.76228 GHz	-47.41 dBm	-7.41 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.74453 GHz	-43.92 dBm	-3.92 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.92259 GHz	-45.03 dBm	-5.03 dB

Date: 25.AUG.2020 11:38:41

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	0.0007	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0013	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0015	

Note:

1. Normal Voltage =4 V.；Battery End Point (BEP) =3.8 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4612	-65.81	-40	-25.81	-77.27	2.84	14.30	H
	6916	-62.27	-40	-22.27	-72.21	3.49	13.43	H
	9220	-58.86	-40	-18.86	-69.10	3.85	14.09	H
	4612	-65.63	-40	-25.63	-77.09	2.84	14.30	V
	6916	-61.84	-40	-21.84	-71.78	3.49	13.43	V
	9220	-57.86	-40	-17.86	-68.10	3.85	14.09	V

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