FCC RF Test Report

APPLICANT	**:**	**Lenovo (Shanghai) Electronics Technology Co., Ltd.**
EQUIPMENT	**:**	**Portable Tablet Computer**
BRAND NAME	**:**	**Lenovo**
MODEL NAME	**:**	**Lenovo TB-8505XC**
FCC ID	**:**	**O57TB8505XC**
STANDARD	**:**	**47 CFR Part 2, 27**
CLASSIFICATION	**:**	**PCS Licensed Transmitter (PCB)**

The product was received on Apr. 28, 2020 and completely tested on Jul. 02, 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

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
FG981204-07D	Rev. 01	Initial issue of report	Jul. 06, 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 Power Density	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 13.51 dB at 6916.000 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

Lenovo (Shanghai) Electronics Technology Co., Ltd.
Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-8505XC
FCC ID	O57TB8505XC
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver / GNSS
HW Version	Lenovo TB-8505XC
SW Version	TB-8505XC_RF01_200508
EUT Stage	Identical Prototype

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 : 23.08 dBm
Antenna Gain	LTE Band 30 : -0.01 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 Conducted power, Frequency Tolerance and Emission Designator

LTE Band 30		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M50G7D	-	0.2023	4M50W7D	-	0.1746
10	2310.0	8M97G7D	0.0048	0.2032	9M01W7D	-	0.1683

LTE Band 30		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M50W7D	-	0.1374
10	2310.0	9M09W7D	-	0.1327

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

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

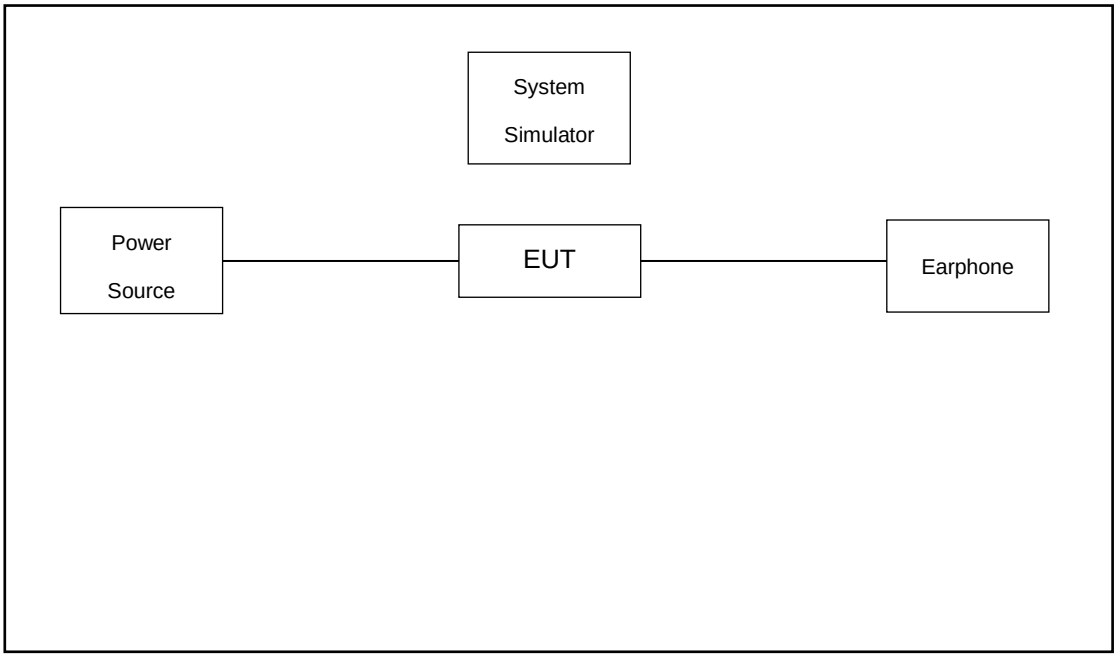
2.1 Test Mode

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 PSD	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 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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example :

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

= 6.0 (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

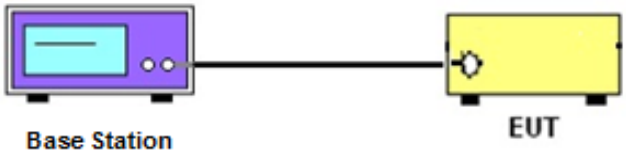
3 Conducted Test Items

3.1 Measuring Instruments

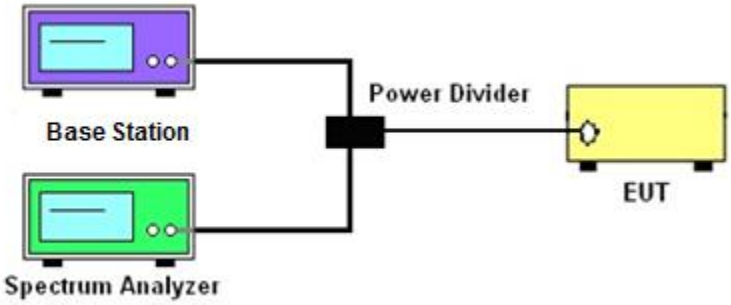
See list of measuring instruments of this test report.

3.2 Test Setup

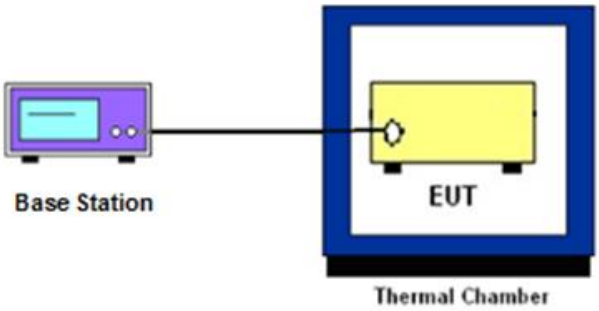
3.2.1 Conducted Output Power



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 Power Density

3.6.1 Description of EIRP Power Density

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. The testing follows ANSI C63.26 Section 5.2.4.5
2. Set instrument center frequency to OBW center frequency.
3. Set span to at least 1.5 times the OBW.
4. Set the RBW to the specified reference bandwidth (5MHz).
5. Set VBW ≥ 3 × RBW.
6. Detector = RMS (power averaging).
7. Ensure that the number of measurement points in the sweep ≥ 2 × span/RBW.
8. Sweep time = auto couple.
9. Employ trace averaging (RMS) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

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 9 kHz 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.

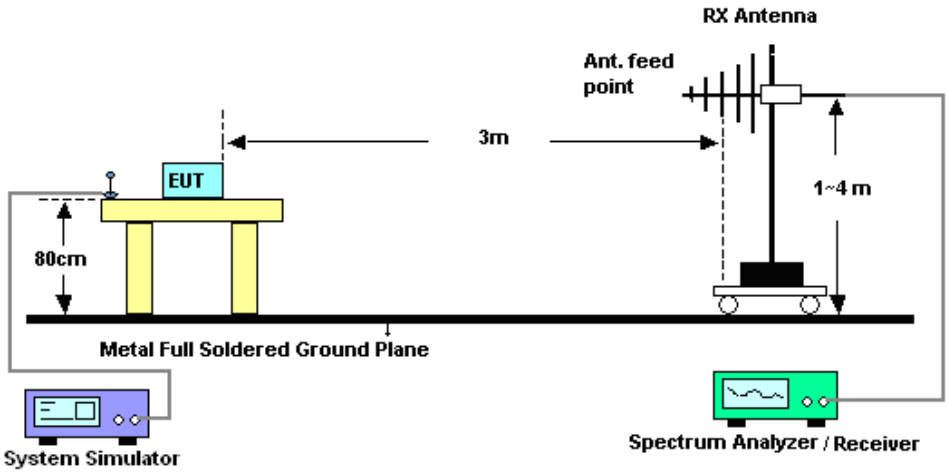
4 Radiated Test Items

4.1 Measuring Instruments

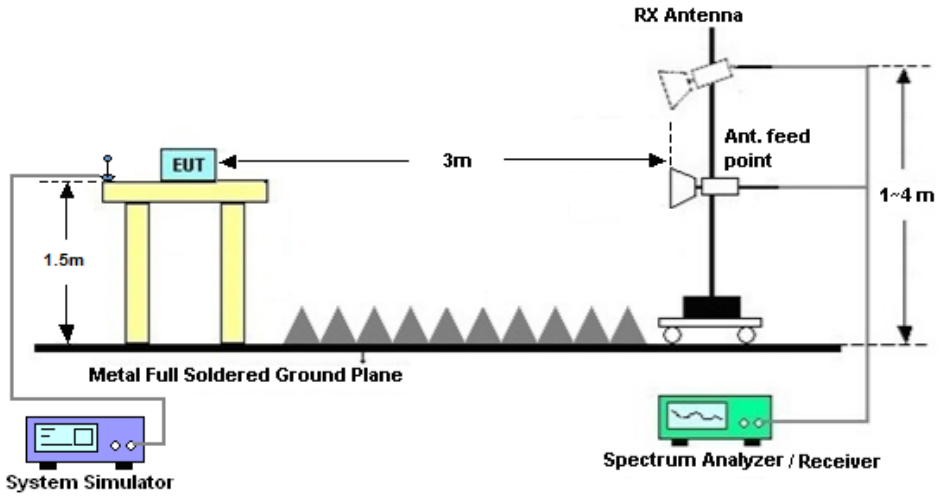
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test 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/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	101040	10Hz~40GHz	Aug. 07, 2019	Jun. 13, 2020~ Jul. 02, 2020	Aug. 06, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 18, 2019	Jun. 13, 2020~ Jul. 02, 2020	Nov. 17, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jun. 08, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49221	30MHz-1GHz	Jun. 19, 2019	Jun. 08, 2020	Jun. 18, 2020	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jun. 08, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jun. 08, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2019	Jun. 08, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jun. 08, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Jun. 08, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Jun. 08, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 08, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 08, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 08, 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

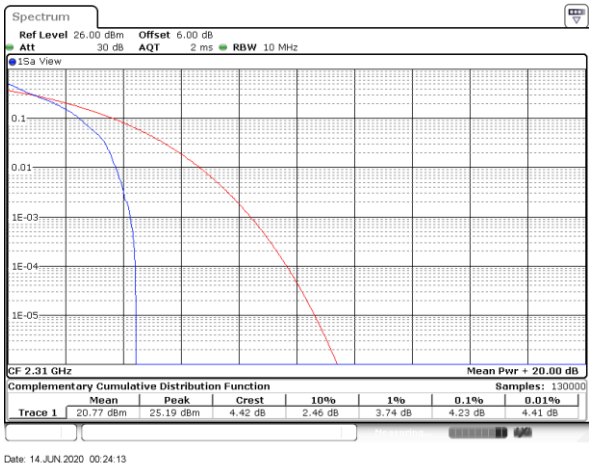
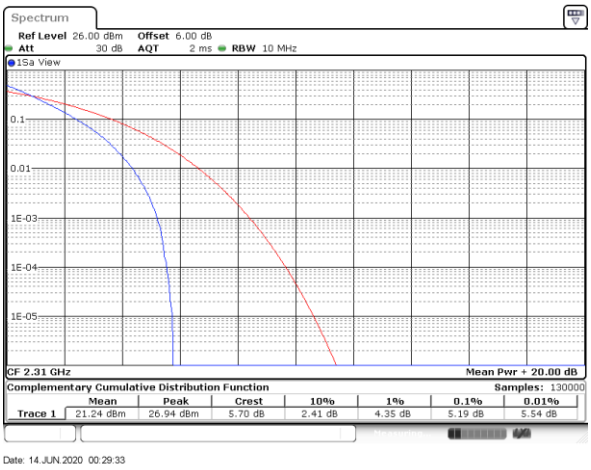
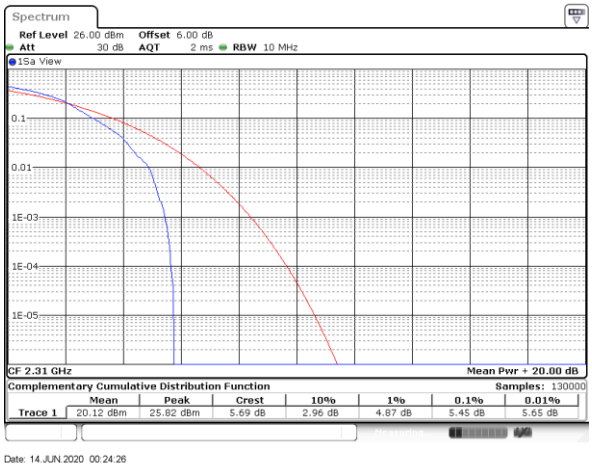
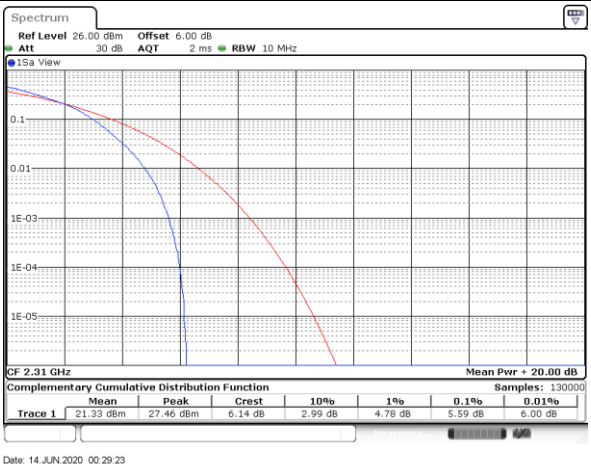
Conducted Output Power(Average power)

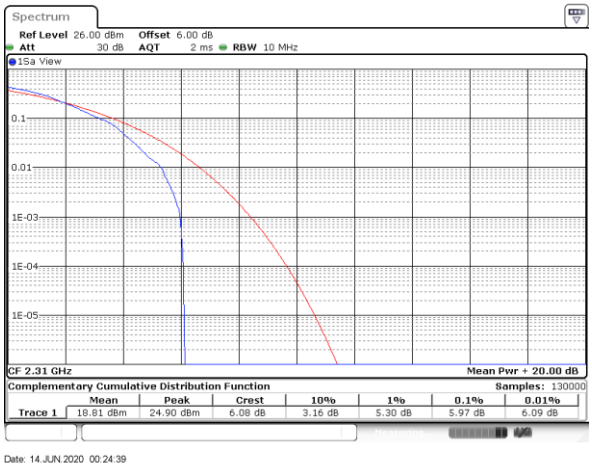
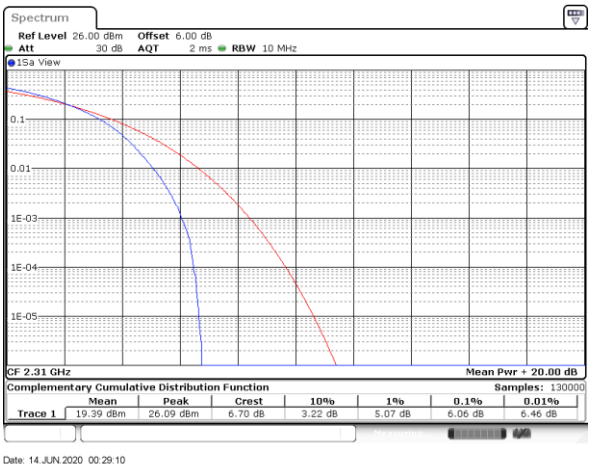
LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.88	22.88	22.88
5	1	12		23.04	23.02	23.06
5	1	24		22.82	22.83	22.83
5	12	0		21.99	21.99	22.01
5	12	7		22.06	22.04	22.06
5	12	13		22.02	22.01	21.94
5	25	0		22.01	22.03	22.00
5	1	0	16-QAM	22.13	22.15	22.12
5	1	12		22.42	22.36	22.32
5	1	24		22.06	22.07	22.04
5	12	0		21.96	21.98	21.98
5	12	7		21.93	21.99	22.00
5	12	13		22.00	21.96	21.91
5	25	0		21.92	22.00	21.98
5	1	0	64QAM	21.13	21.14	21.14
5	1	12		21.38	21.35	21.34
5	1	24		21.07	21.09	21.06
5	12	0		20.13	20.16	20.15
5	12	7		20.21	20.19	20.20
5	12	13		20.20	20.15	20.10
5	25	0		20.21	20.19	20.19

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	-	23.08	-
10	1	25			22.96	
10	1	49			22.86	
10	25	0			22.03	
10	25	12			22.01	
10	25	25			21.97	
10	50	0			21.99	
10	1	0	16-QAM		22.23	
10	1	25			22.26	
10	1	49			22.14	
10	25	0			21.98	
10	25	12			22.00	
10	25	25			21.95	
10	50	0			21.97	
10	1	0	64QAM		21.22	
10	1	25			21.23	
10	1	49			21.12	
10	25	0			20.20	
10	25	12			20.20	
10	25	25			20.15	
10	50	0			20.18	

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	4.23	5.19	5.45	5.59	
Highest CH	-	-	-	-	
Mode	LTE Band 30 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.97	6.06	-	-	
Highest CH	-	-	-	-	

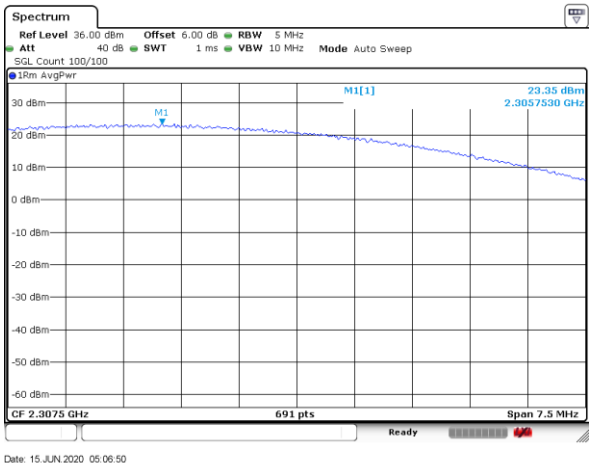
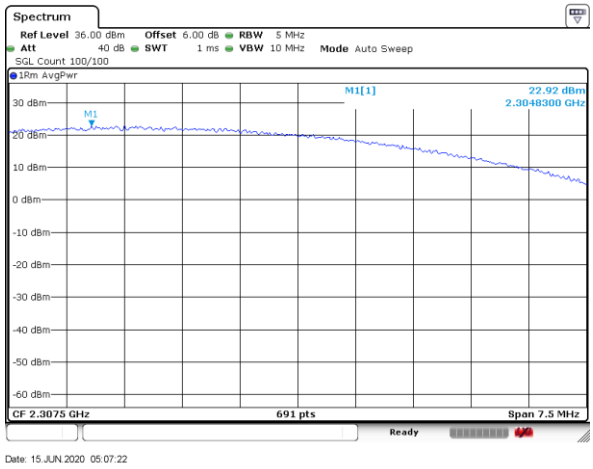
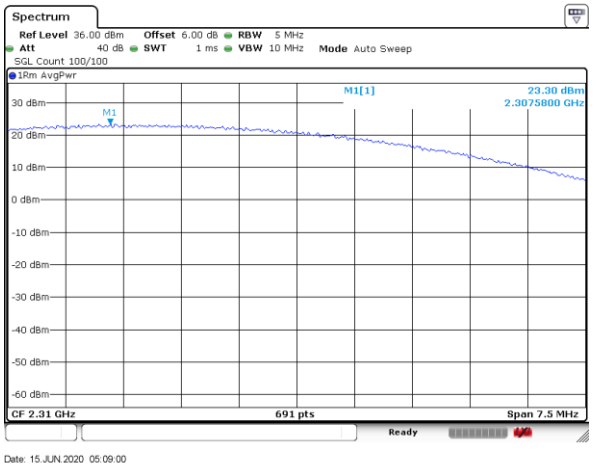
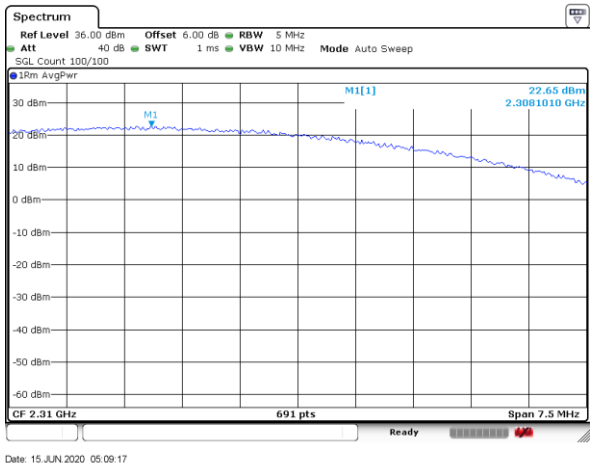
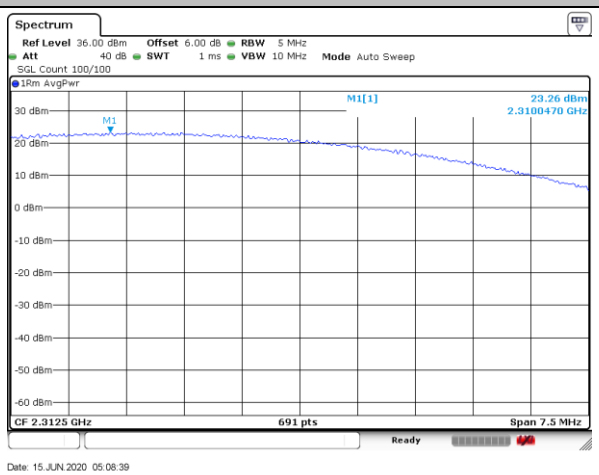
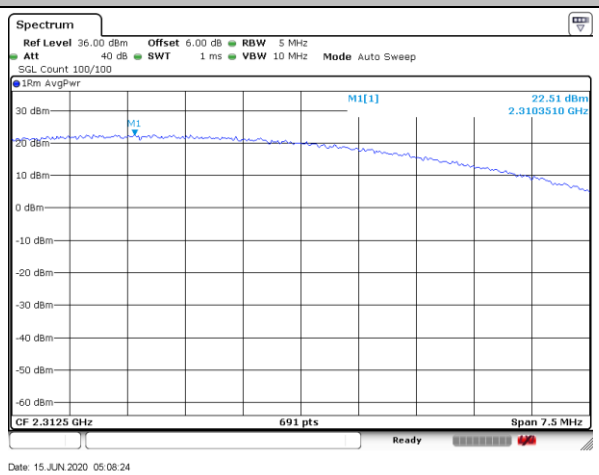
LTE Band 30 / 10MHz / QPSK	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
LTE Band 30 / 10MHz / 16QAM	
Middle Channel / 1RB	**Middle Channel / Full RB**
	

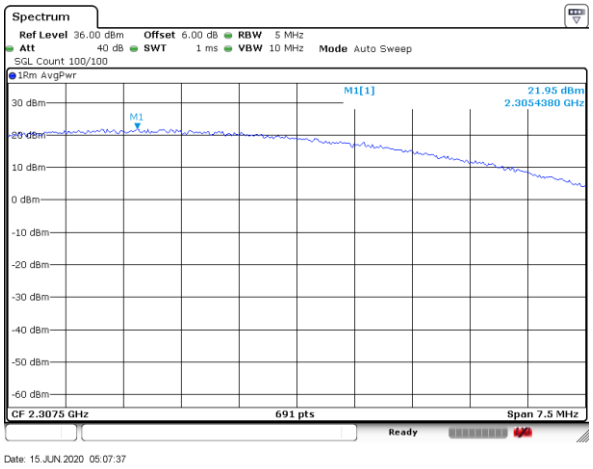
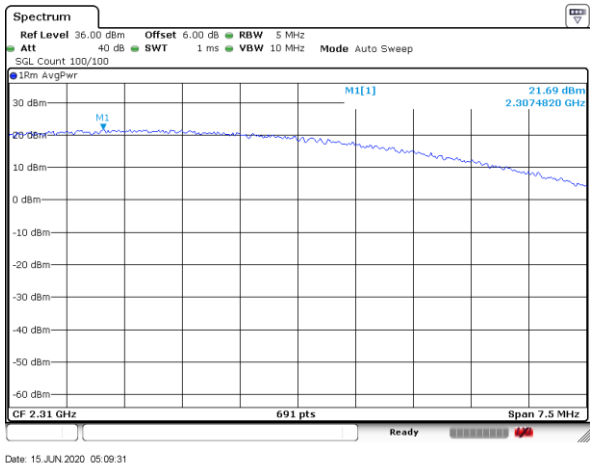
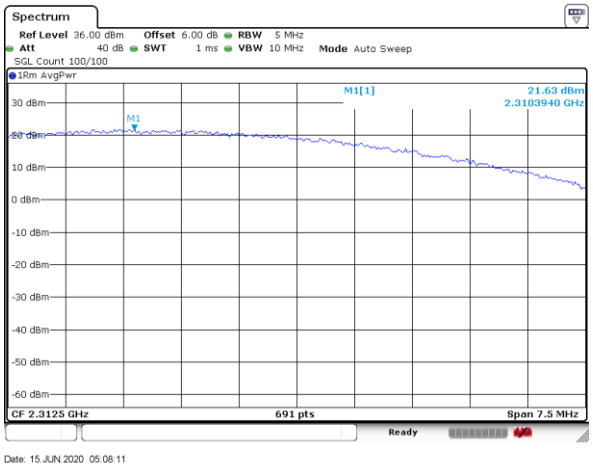
LTE Band 30 / 10MHz / 64QAM	
Middle Channel / 1RB	**Middle Channel / Full RB**
	

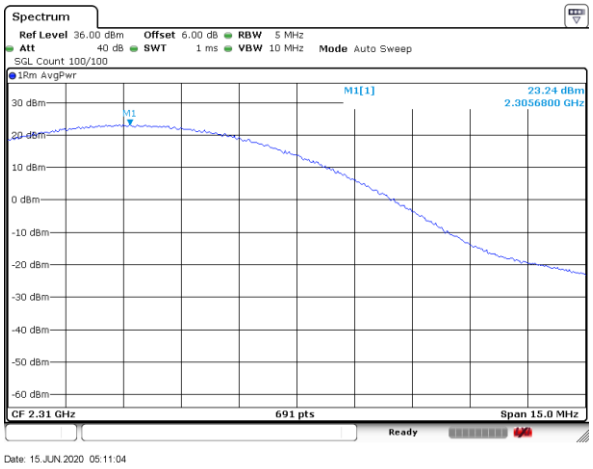
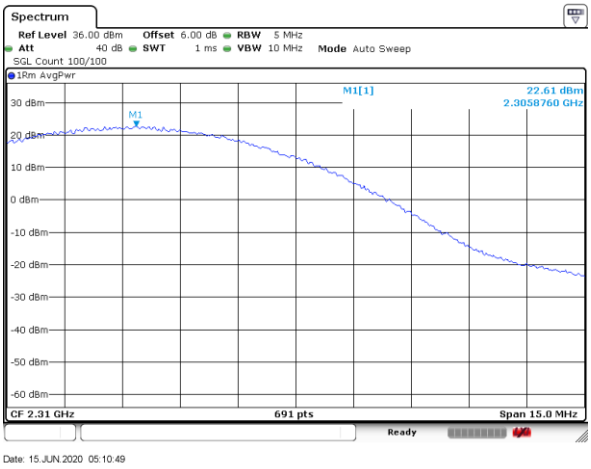
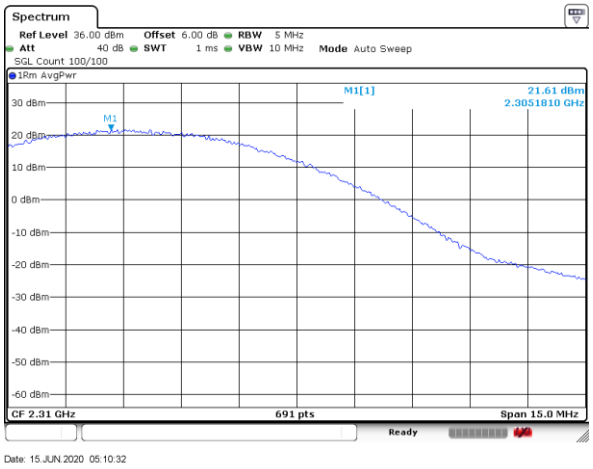
EIRP Power Density

Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	23.35	22.92			-	-	-	-
Middle CH	-	-	-	-	23.30	22.65	23.24	22.61	-	-	-	-
Highest CH	-	-	-	-	23.26	22.51			-	-	-	-
Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	21.95			-	-	-	-	-
Middle CH	-	-	-	-	21.69		21.61	-	-	-	-	-
Highest CH	-	-	-	-	21.63			-	-	-	-	-

Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	23.34	22.91			-	-	-	-
Middle CH	-	-	-	-	23.29	22.64	23.23	22.60	-	-	-	-
Highest CH	-	-	-	-	23.25	22.50			-	-	-	-
Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	21.94	-	-	-	-	-	-	-
Middle CH	-	-	-	-	21.68	-	21.60	-	-	-	-	-
Highest CH	-	-	-	-	21.62	-	-	-	-	-	-	-
Antenna Gain	-0.01dBi											
Limit	250mW / 5MHz = 24dBm / 5MHz											
Result	Pass											

LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / QPSK	**Lowest Channel / 5MHz / 1RB0 / 16QAM**
	
Middle Channel / 5MHz / 1RB0 / QPSK	**Middle Channel / 5MHz / 1RB0 / 16QAM**
	
Highest Channel / 5MHz / 1RB0 / QPSK	**Highest Channel / 5MHz / 1RB0 / 16QAM**
	

LTE Band 30 / 5MHz	
Lowest Channel / 5MHz / 1RB0 / 64QAM	**Middle Channel / 5MHz / 1RB0 / 64QAM**
	
Highest Channel / 5MHz / 1RB0 / 64QAM	
	

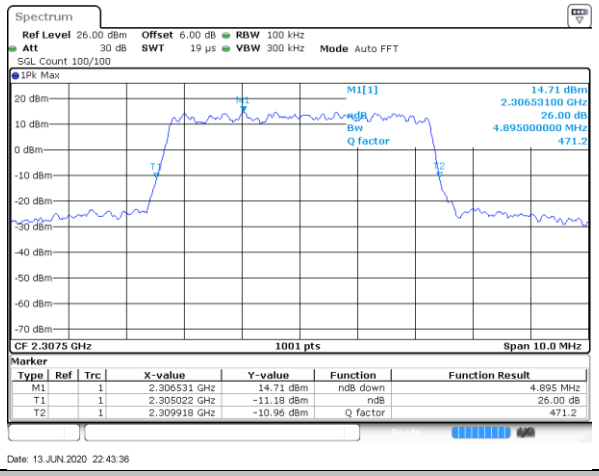
LTE Band 30 / 10MHz	
Lowest Channel / 10MHz / 1RB0 / QPSK	**Lowest Channel / 10MHz / 1RB0 / 16QAM**
	
Lowest Channel / 10MHz / 1RB0 / 64QAM	
	

26dB Bandwidth

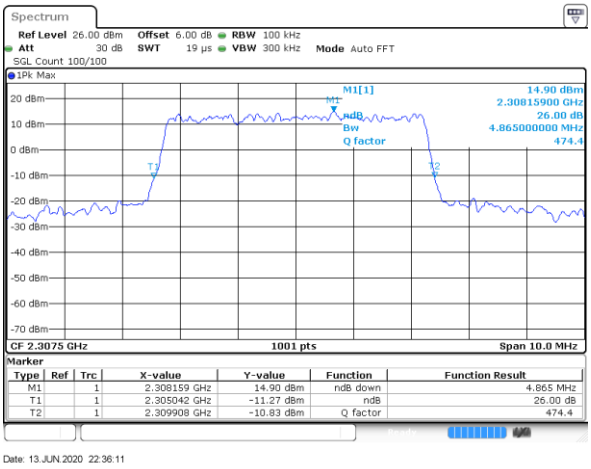
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.90	4.87	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	4.83	9.79	9.73	-	-	-	-
Highest CH	-	-	-	-	4.87	4.84	-	-	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.86	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.84	-	9.99	-	-	-	-	-
Highest CH	-	-	-	-	4.88	-	-	-	-	-	-	-

LTE Band 30

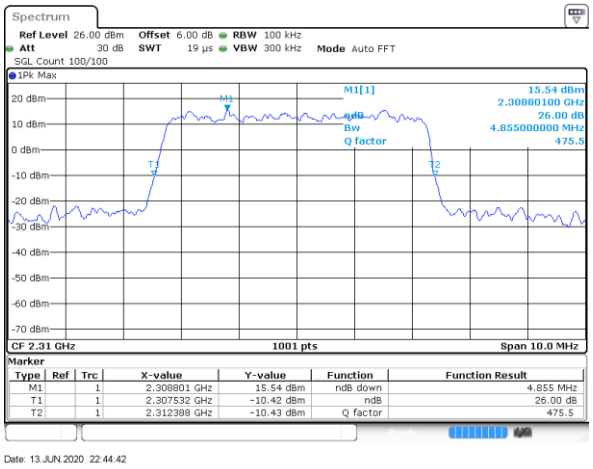
Lowest Channel / 5MHz / QPSK



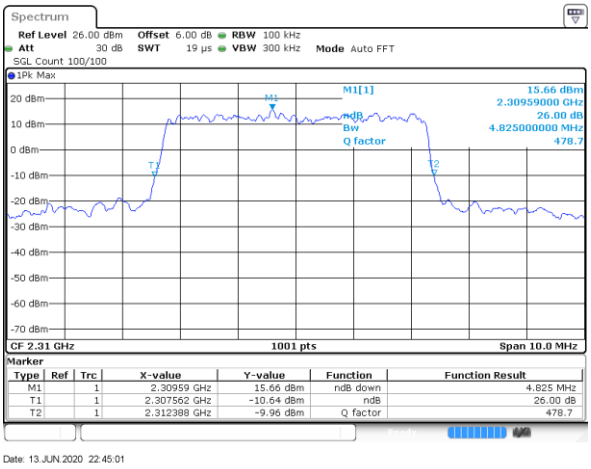
Lowest Channel / 5MHz / 16QAM



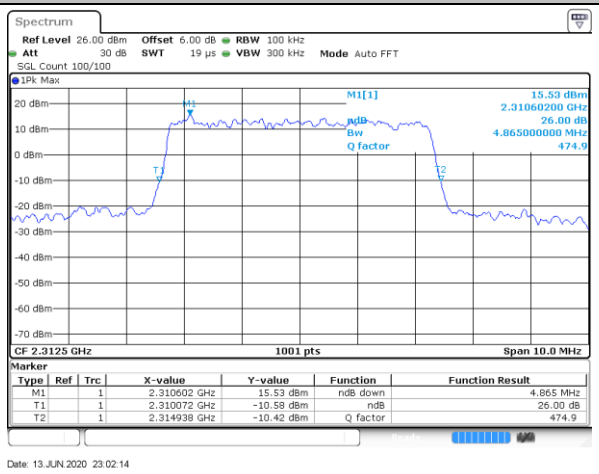
Middle Channel / 5MHz / QPSK



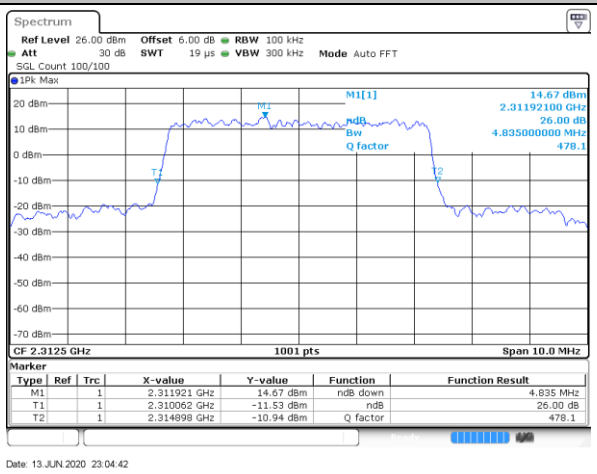
Middle Channel / 5MHz / 16QAM

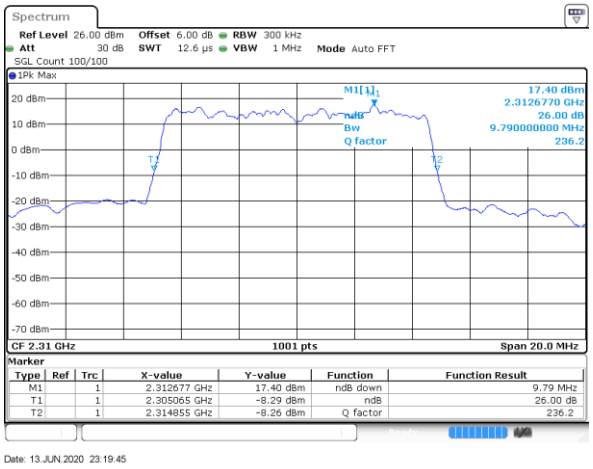
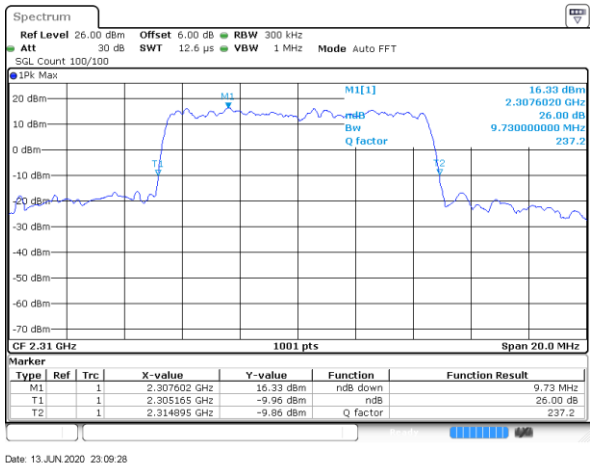


Highest Channel / 5MHz / QPSK



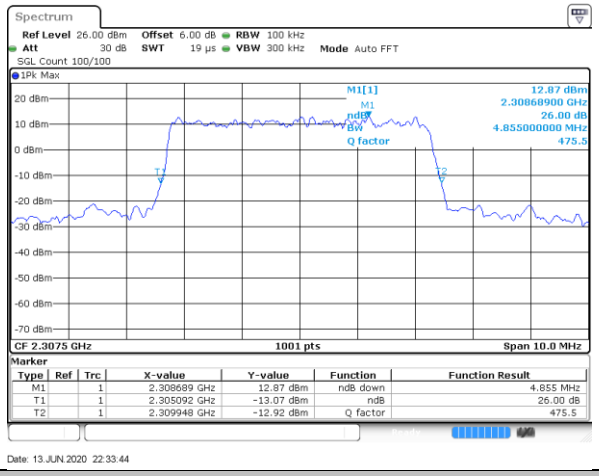
Highest Channel / 5MHz / 16QAM



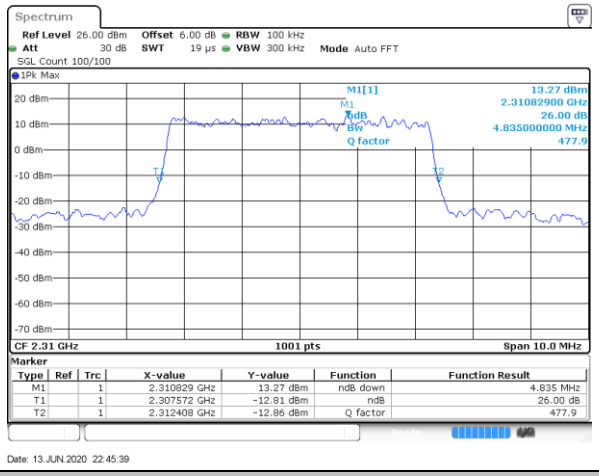
LTE Band 30	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

LTE Band 30

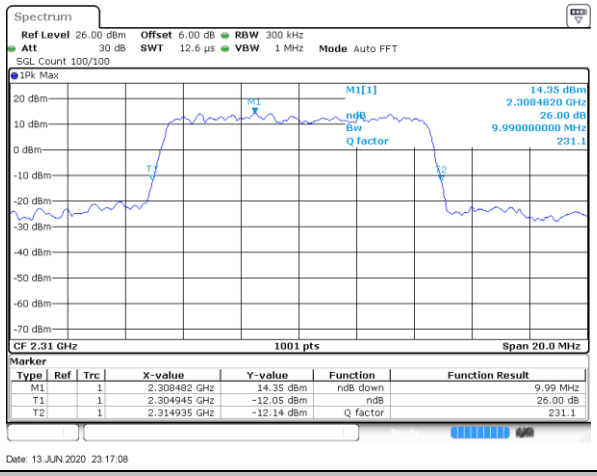
Lowest Channel / 5MHz / 64QAM



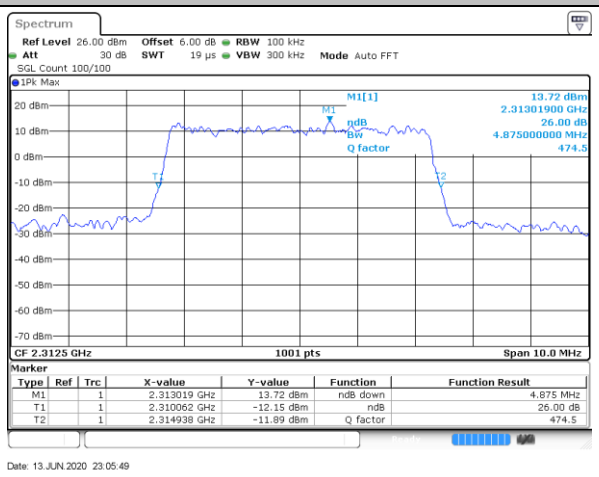
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

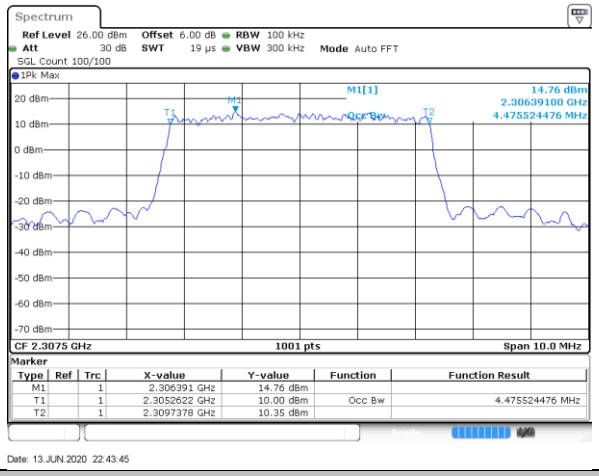


Occupied Bandwidth

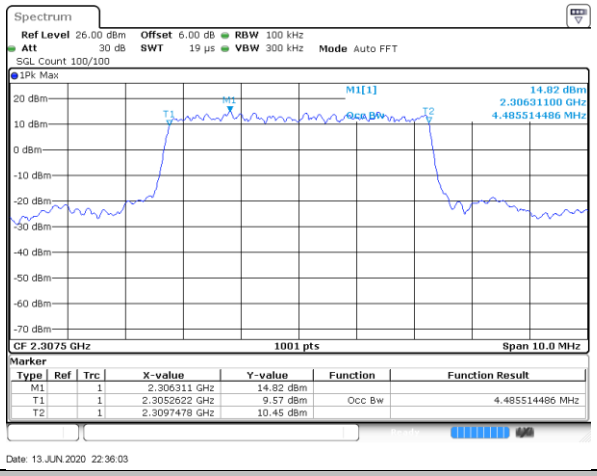
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.47	8.97	9.01	-	-	-	-
Highest CH	-	-	-	-	4.50	4.50	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.09	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-

LTE Band 30

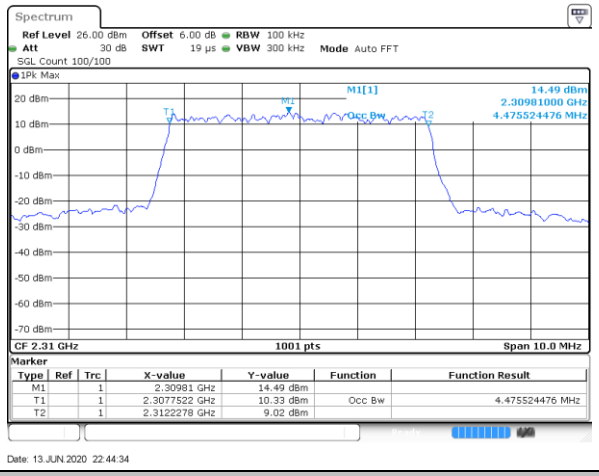
Lowest Channel / 5MHz / QPSK



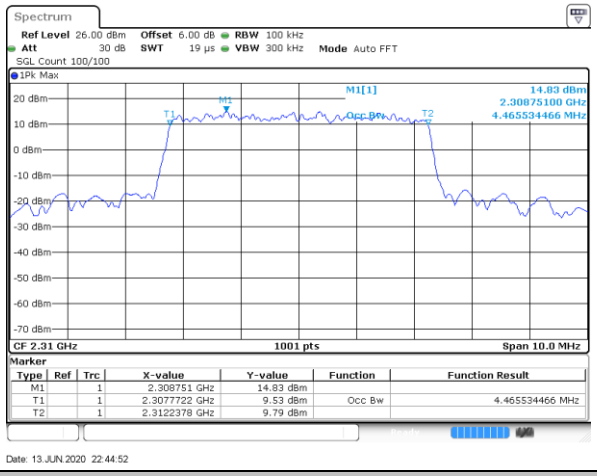
Lowest Channel / 5MHz / 16QAM



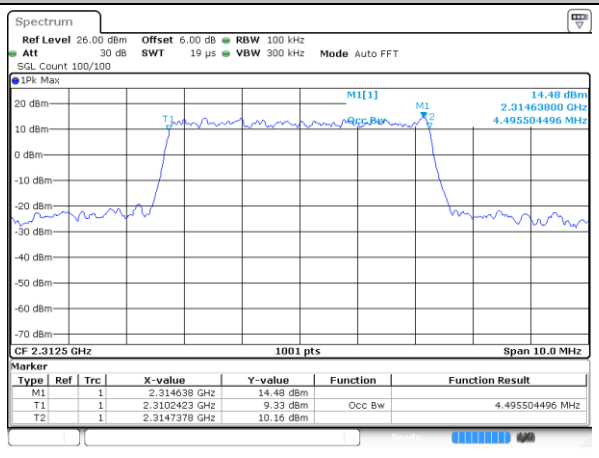
Middle Channel / 5MHz / QPSK



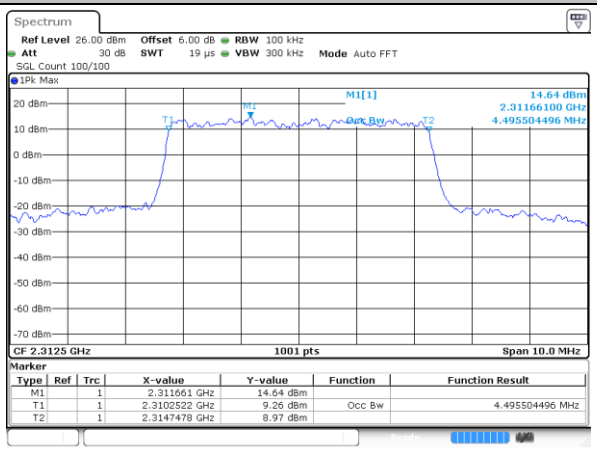
Middle Channel / 5MHz / 16QAM

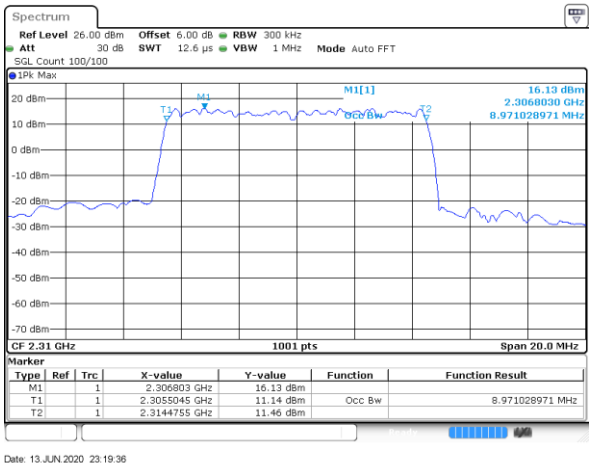
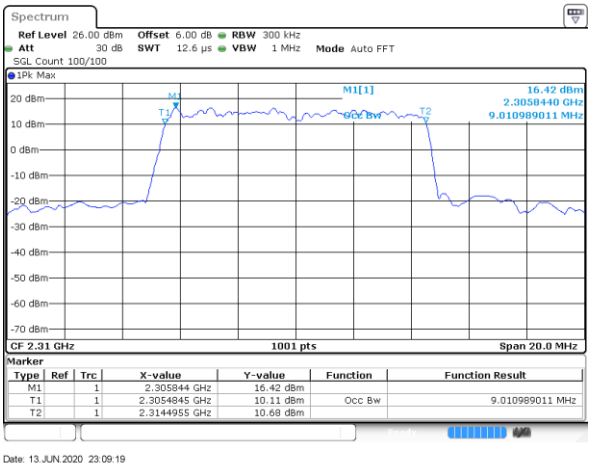


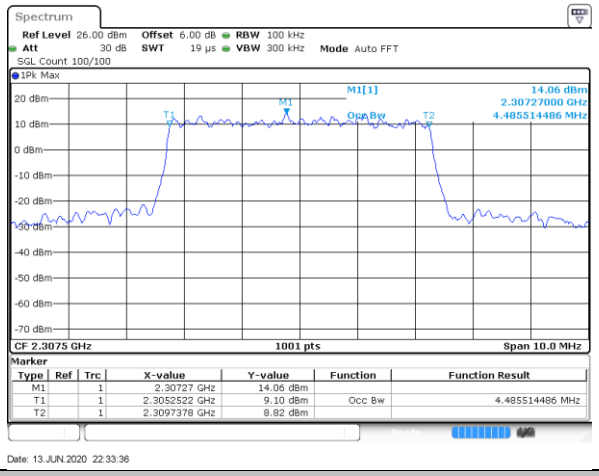
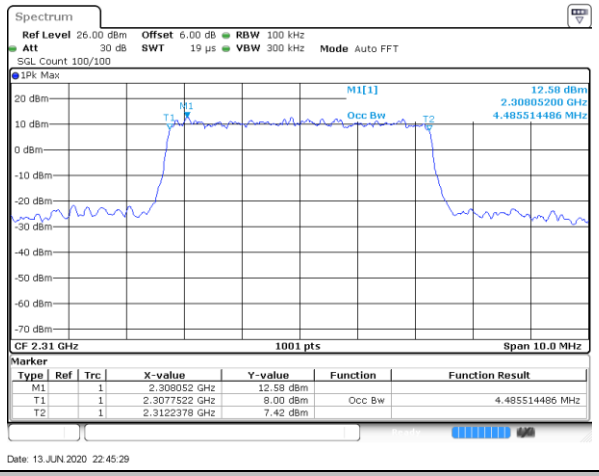
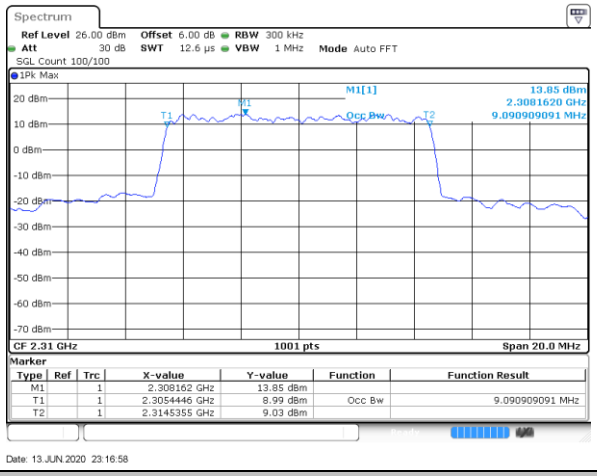
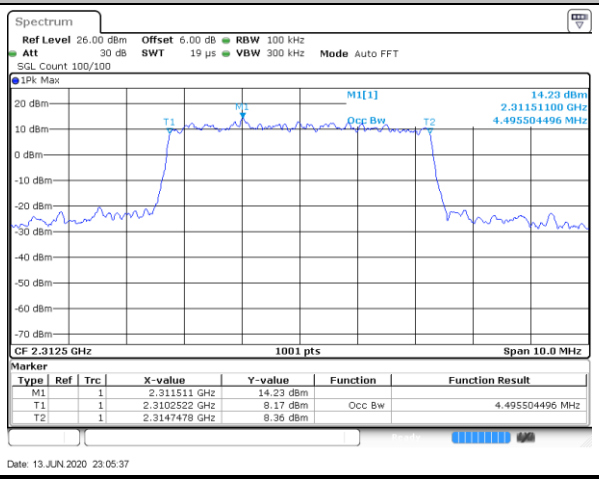
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



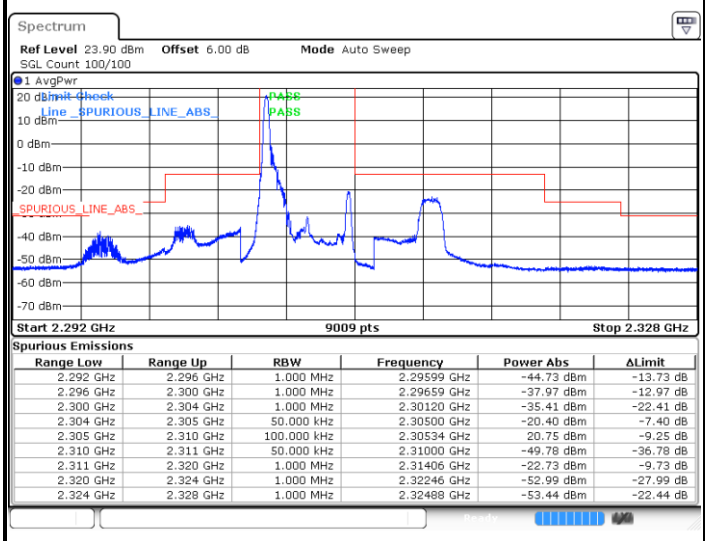
LTE Band 30	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

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

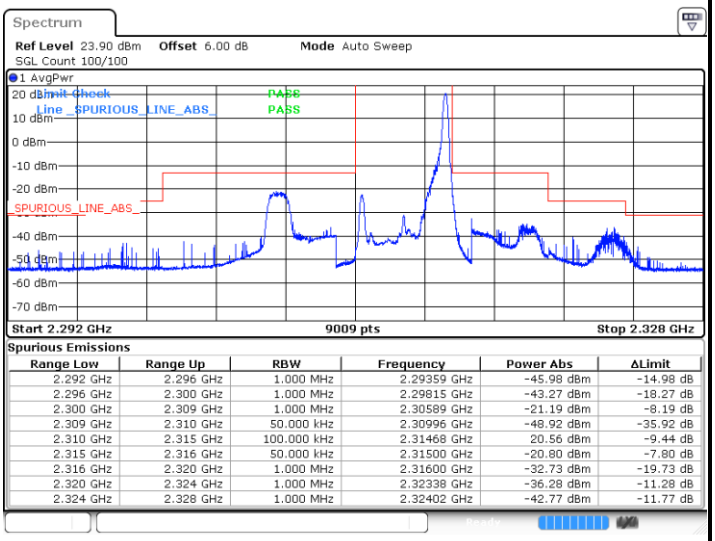


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-44.73 dBm	-13.73 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29659 GHz	-37.97 dBm	-12.97 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30120 GHz	-35.41 dBm	-22.41 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-20.40 dBm	-7.40 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30534 GHz	20.75 dBm	-9.25 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-49.78 dBm	-36.78 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31406 GHz	-22.73 dBm	-9.73 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32246 GHz	-52.99 dBm	-27.99 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32488 GHz	-53.44 dBm	-22.44 dB

Date: 13.JUN.2020 22:26:06

Highest Band Edge / 1 RB

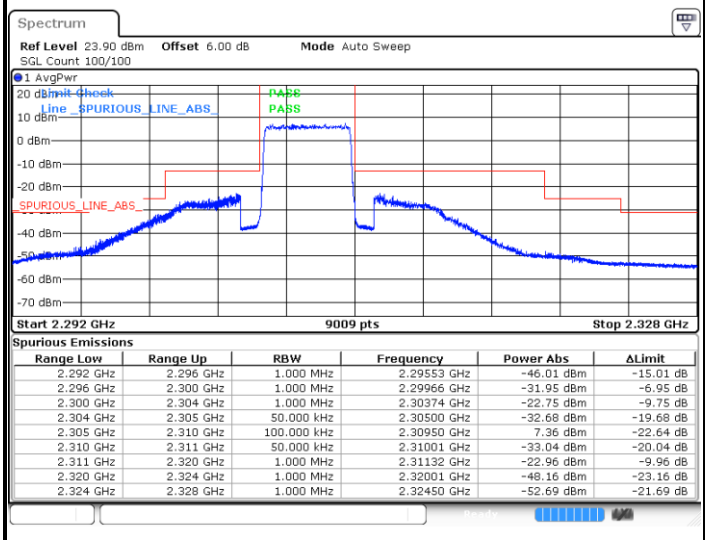


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29359 GHz	-45.98 dBm	-14.98 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29815 GHz	-43.27 dBm	-18.27 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30589 GHz	-21.19 dBm	-8.19 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30996 GHz	-48.92 dBm	-35.92 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	20.56 dBm	-9.44 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-20.80 dBm	-7.80 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31600 GHz	-32.73 dBm	-19.73 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32338 GHz	-36.28 dBm	-11.28 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32402 GHz	-42.77 dBm	-11.77 dB

Date: 13.JUN.2020 23:01:30

Lowest Band Edge / Full RB

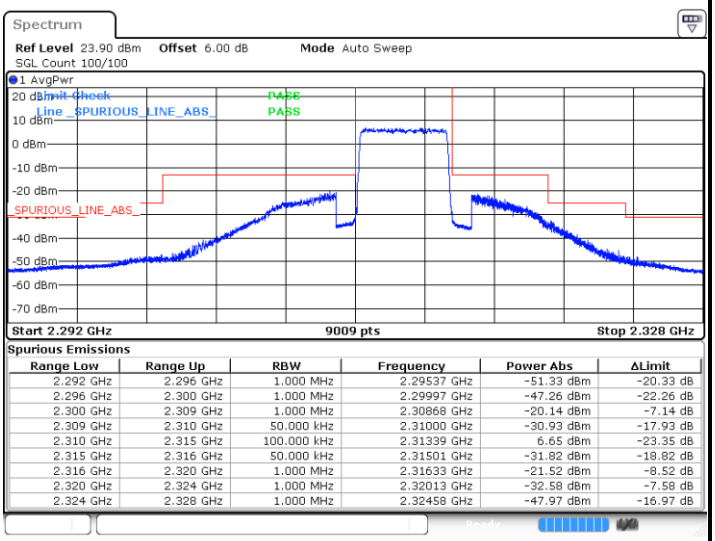


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29553 GHz	-46.01 dBm	-15.01 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29966 GHz	-31.95 dBm	-6.95 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30374 GHz	-22.75 dBm	-9.75 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-32.68 dBm	-19.68 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30950 GHz	7.36 dBm	-22.64 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-33.04 dBm	-20.04 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31132 GHz	-22.96 dBm	-9.96 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32001 GHz	-48.16 dBm	-23.16 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32450 GHz	-52.69 dBm	-21.69 dB

Date: 13.JUN.2020 22:42:19

Highest Band Edge / Full RB



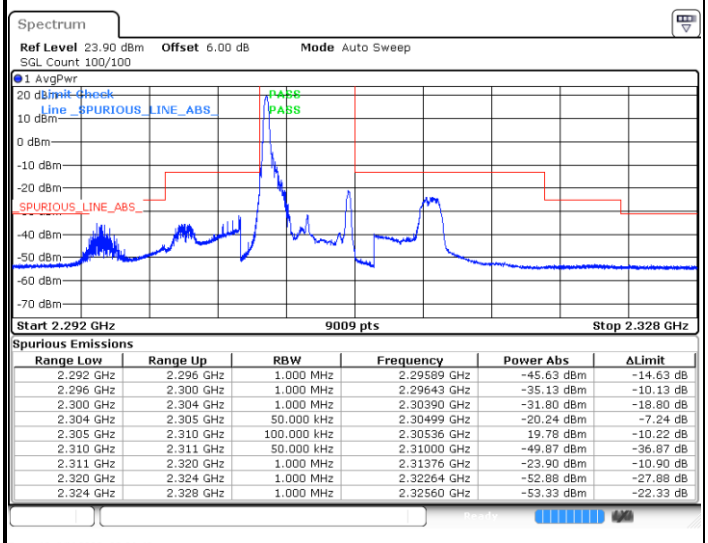
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29537 GHz	-51.33 dBm	-20.33 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29997 GHz	-47.26 dBm	-22.26 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30868 GHz	-20.14 dBm	-7.14 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-30.93 dBm	-17.93 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31339 GHz	6.65 dBm	-23.35 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-31.82 dBm	-18.82 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31633 GHz	-21.52 dBm	-8.52 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32013 GHz	-32.58 dBm	-7.58 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32458 GHz	-47.97 dBm	-16.97 dB

Date: 13.JUN.2020 23:04:14

LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB

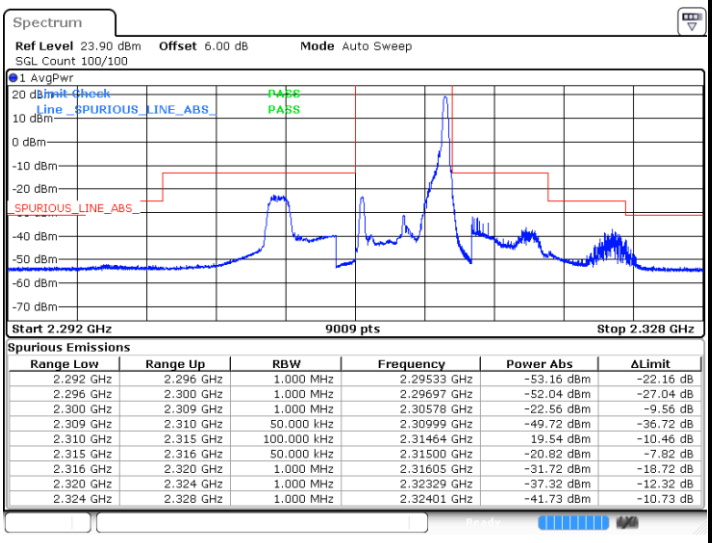


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29589 GHz	-45.63 dBm	-14.63 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29643 GHz	-35.13 dBm	-10.13 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30390 GHz	-31.80 dBm	-18.80 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-20.24 dBm	-7.24 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30536 GHz	19.78 dBm	-10.22 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-49.87 dBm	-36.87 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31376 GHz	-23.90 dBm	-10.90 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32264 GHz	-52.88 dBm	-27.88 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32560 GHz	-53.33 dBm	-22.33 dB

Date: 13.JUN.2020 22:28:43

Highest Band Edge / 1 RB

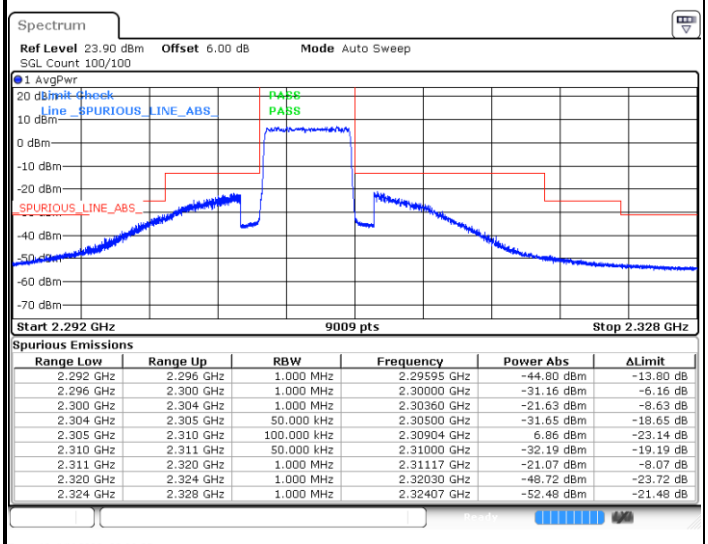


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29533 GHz	-53.16 dBm	-22.16 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29697 GHz	-52.04 dBm	-27.04 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30578 GHz	-22.56 dBm	-9.56 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30999 GHz	-49.72 dBm	-36.72 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31464 GHz	19.54 dBm	-10.46 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-20.82 dBm	-7.82 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31605 GHz	-31.72 dBm	-18.72 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32329 GHz	-37.32 dBm	-12.32 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-41.73 dBm	-10.73 dB

Date: 13.JUN.2020 23:00:45

Lowest Band Edge / Full RB

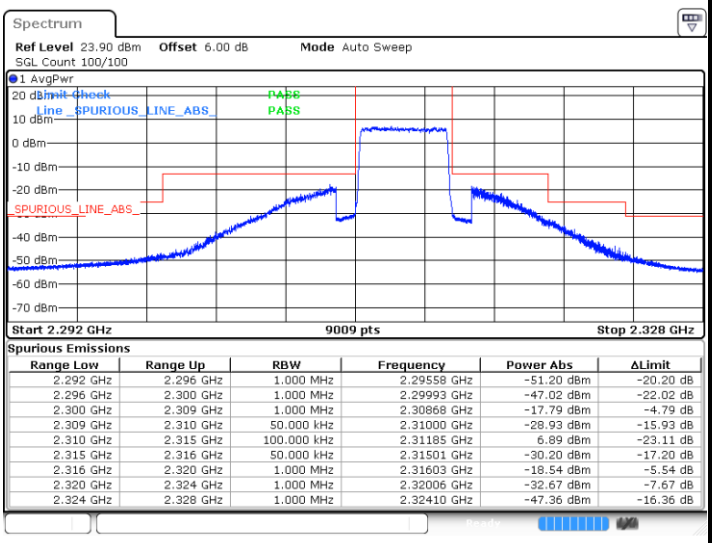


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29595 GHz	-44.80 dBm	-13.80 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.30000 GHz	-31.16 dBm	-6.16 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30360 GHz	-21.63 dBm	-8.63 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-31.65 dBm	-18.65 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30904 GHz	6.86 dBm	-23.14 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-32.19 dBm	-19.19 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31117 GHz	-21.07 dBm	-8.07 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32030 GHz	-48.72 dBm	-23.72 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32407 GHz	-52.48 dBm	-21.48 dB

Date: 13.JUN.2020 22:39:25

Highest Band Edge / Full RB



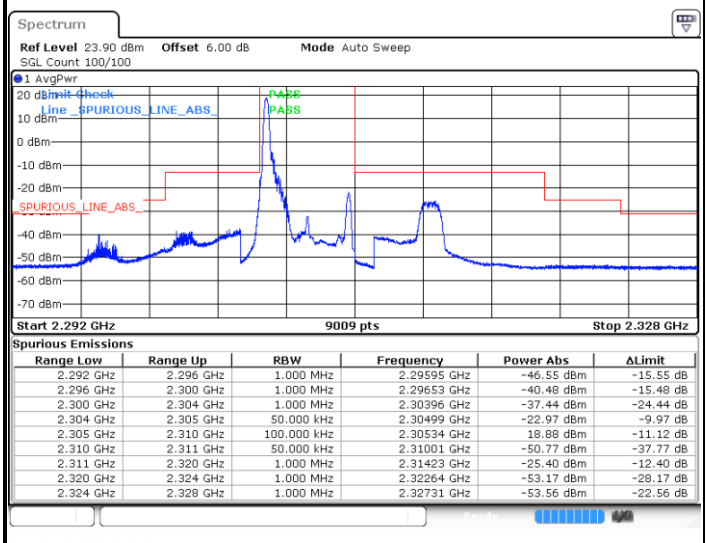
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29558 GHz	-51.20 dBm	-20.20 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29993 GHz	-47.02 dBm	-22.02 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30868 GHz	-17.79 dBm	-4.79 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-28.93 dBm	-15.93 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31185 GHz	6.89 dBm	-23.11 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31501 GHz	-30.20 dBm	-17.20 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-18.54 dBm	-5.54 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32006 GHz	-32.67 dBm	-7.67 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32410 GHz	-47.36 dBm	-16.36 dB

Date: 13.JUN.2020 23:05:23

LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1RB

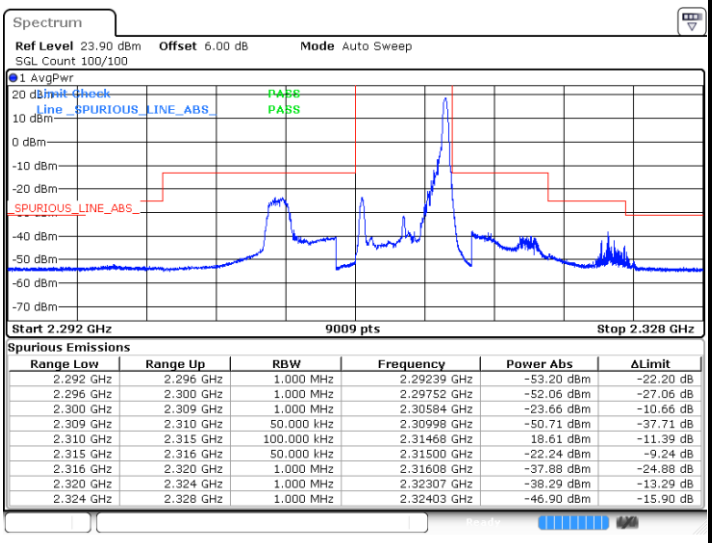


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29595 GHz	-46.55 dBm	-15.55 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29653 GHz	-40.48 dBm	-15.48 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30396 GHz	-37.44 dBm	-24.44 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30499 GHz	-22.97 dBm	-9.97 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30534 GHz	18.88 dBm	-11.12 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31001 GHz	-50.77 dBm	-37.77 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31423 GHz	-25.40 dBm	-12.40 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32264 GHz	-53.17 dBm	-28.17 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32731 GHz	-53.56 dBm	-22.56 dB

Date: 13.JUN.2020 22:30:37

Highest Band Edge / 1 RB

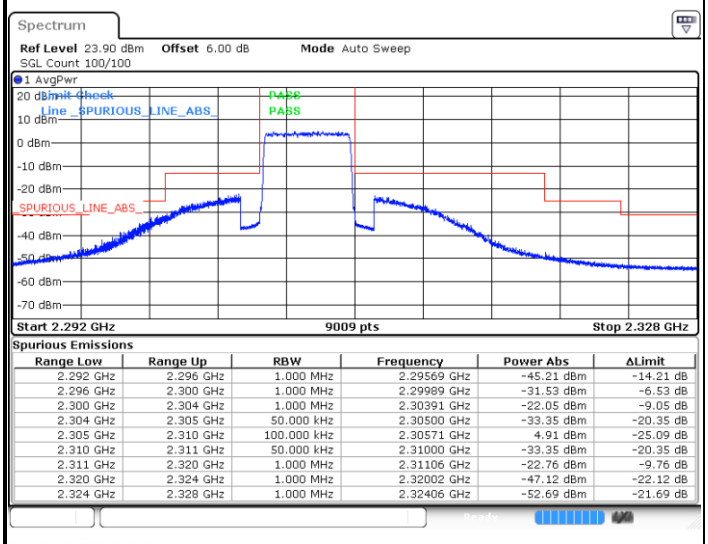


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29239 GHz	-53.20 dBm	-22.20 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29752 GHz	-52.06 dBm	-27.06 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30584 GHz	-23.66 dBm	-10.66 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.30998 GHz	-50.71 dBm	-37.71 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31468 GHz	18.61 dBm	-11.39 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-22.24 dBm	-9.24 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31608 GHz	-37.88 dBm	-24.88 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32307 GHz	-38.29 dBm	-13.29 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-46.90 dBm	-15.90 dB

Date: 13.JUN.2020 22:59:34

Lowest Band Edge / Full RB

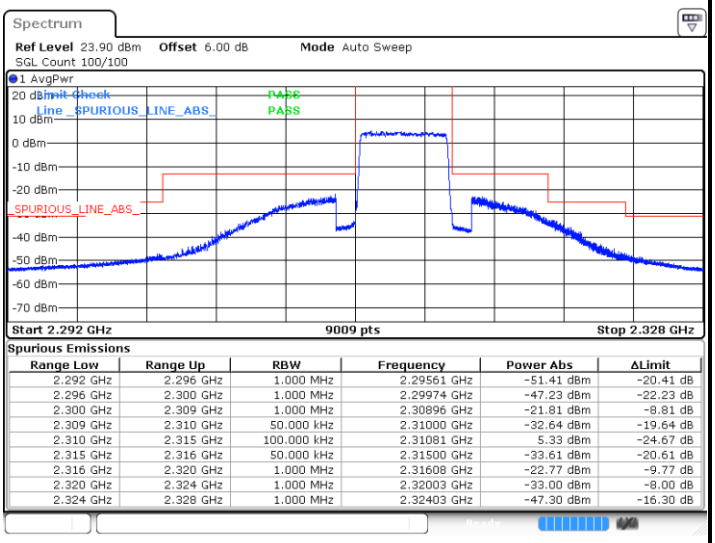


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29569 GHz	-45.21 dBm	-14.21 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29989 GHz	-31.53 dBm	-6.53 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30391 GHz	-22.05 dBm	-9.05 dB
2.304 GHz	2.305 GHz	50.000 kHz	2.30500 GHz	-33.35 dBm	-20.35 dB
2.305 GHz	2.310 GHz	100.000 kHz	2.30571 GHz	4.91 dBm	-25.09 dB
2.310 GHz	2.311 GHz	50.000 kHz	2.31000 GHz	-33.35 dBm	-20.35 dB
2.311 GHz	2.320 GHz	1.000 MHz	2.31106 GHz	-22.76 dBm	-9.76 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32002 GHz	-47.12 dBm	-22.12 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32406 GHz	-52.69 dBm	-21.69 dB

Date: 13.JUN.2020 22:35:53

Highest Band Edge / Full RB



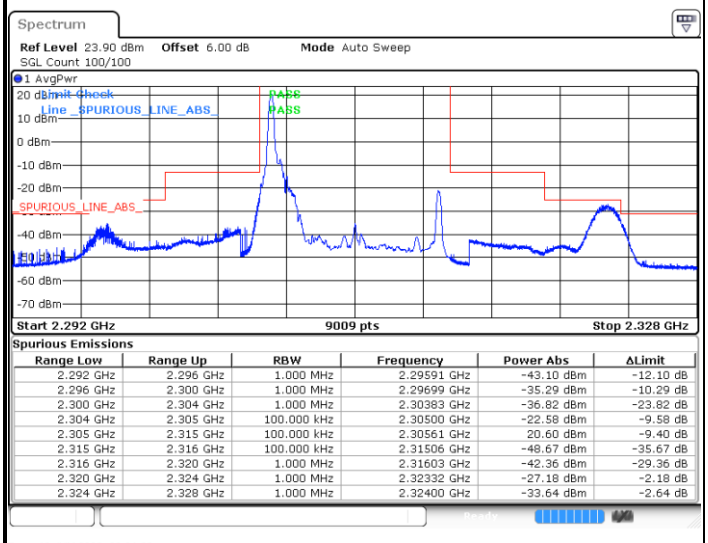
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29561 GHz	-51.41 dBm	-20.41 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29974 GHz	-47.23 dBm	-22.23 dB
2.300 GHz	2.309 GHz	1.000 MHz	2.30896 GHz	-21.81 dBm	-8.81 dB
2.309 GHz	2.310 GHz	50.000 kHz	2.31000 GHz	-32.64 dBm	-19.64 dB
2.310 GHz	2.315 GHz	100.000 kHz	2.31081 GHz	5.33 dBm	-24.67 dB
2.315 GHz	2.316 GHz	50.000 kHz	2.31500 GHz	-33.61 dBm	-20.61 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31608 GHz	-22.77 dBm	-9.77 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-33.00 dBm	-8.00 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32403 GHz	-47.30 dBm	-16.30 dB

Date: 13.JUN.2020 23:06:35

LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB

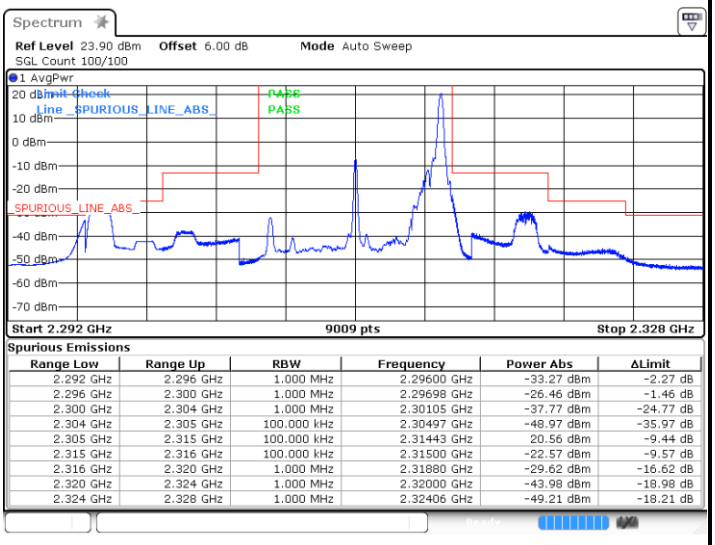


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29591 GHz	-43.10 dBm	-12.10 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29699 GHz	-35.29 dBm	-10.29 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30383 GHz	-36.82 dBm	-23.82 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-22.58 dBm	-9.58 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30561 GHz	20.60 dBm	-9.40 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31506 GHz	-48.67 dBm	-35.67 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31603 GHz	-42.36 dBm	-29.36 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32332 GHz	-27.18 dBm	-2.18 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32400 GHz	-33.64 dBm	-2.64 dB

Date: 13.JUN.2020 23:21:00

Highest Band Edge / 1 RB

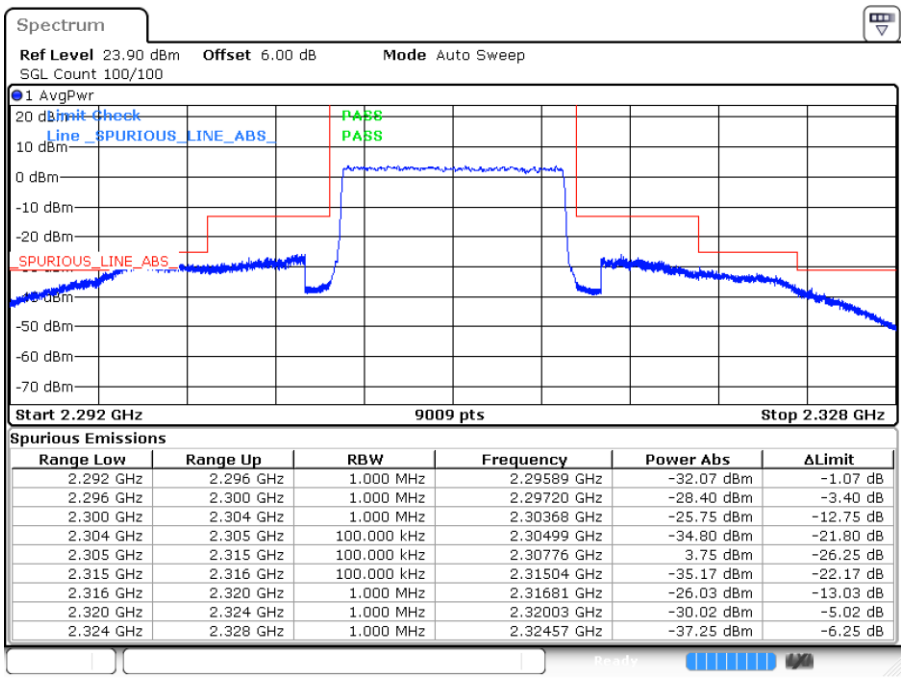


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29600 GHz	-33.27 dBm	-2.27 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29698 GHz	-26.46 dBm	-1.46 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30105 GHz	-37.77 dBm	-24.77 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30497 GHz	-48.97 dBm	-35.97 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31443 GHz	20.56 dBm	-9.44 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-22.57 dBm	-9.57 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31880 GHz	-29.62 dBm	-16.62 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32000 GHz	-43.98 dBm	-18.98 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32406 GHz	-49.21 dBm	-18.21 dB

Date: 2.JUL.2020 20:54:05

Band Edge / Full RB



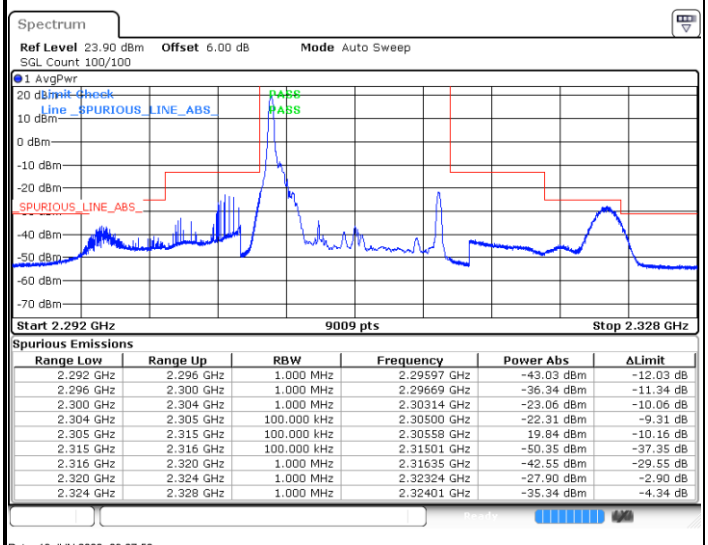
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29589 GHz	-32.07 dBm	-1.07 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29720 GHz	-28.40 dBm	-3.40 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30368 GHz	-25.75 dBm	-12.75 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-34.80 dBm	-21.80 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30776 GHz	3.75 dBm	-26.25 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31504 GHz	-35.17 dBm	-22.17 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31681 GHz	-26.03 dBm	-13.03 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32003 GHz	-30.02 dBm	-5.02 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32457 GHz	-37.25 dBm	-6.25 dB

Date: 13.JUN.2020 23:20:06

LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

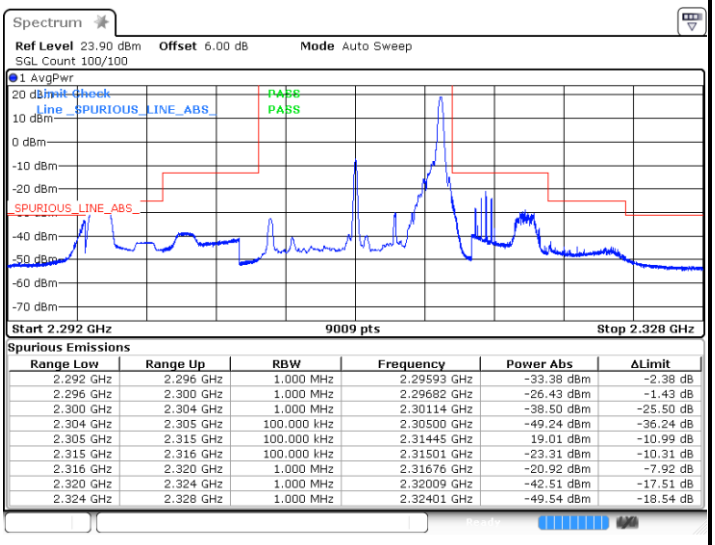


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-43.03 dBm	-12.03 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29669 GHz	-36.34 dBm	-11.34 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30314 GHz	-23.06 dBm	-10.06 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-22.31 dBm	-9.31 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30558 GHz	19.84 dBm	-10.16 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-50.35 dBm	-37.35 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31635 GHz	-42.55 dBm	-29.55 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32324 GHz	-27.90 dBm	-2.90 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-35.34 dBm	-4.34 dB

Date: 13.JUN.2020 23:27:52

Highest Band Edge / 1 RB

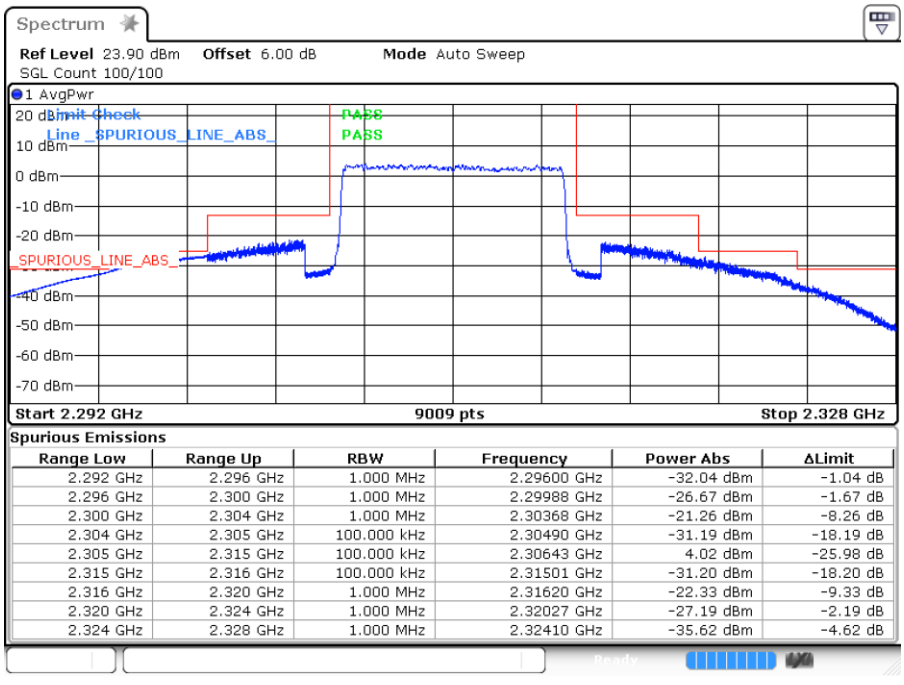


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29593 GHz	-33.38 dBm	-2.38 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29682 GHz	-26.43 dBm	-1.43 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30114 GHz	-38.50 dBm	-25.50 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30500 GHz	-49.24 dBm	-36.24 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31445 GHz	19.01 dBm	-10.99 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-23.31 dBm	-10.31 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31676 GHz	-20.92 dBm	-7.92 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32009 GHz	-42.51 dBm	-17.51 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-49.54 dBm	-18.54 dB

Date: 2.JUL.2020 20:55:33

Band Edge / Full RB

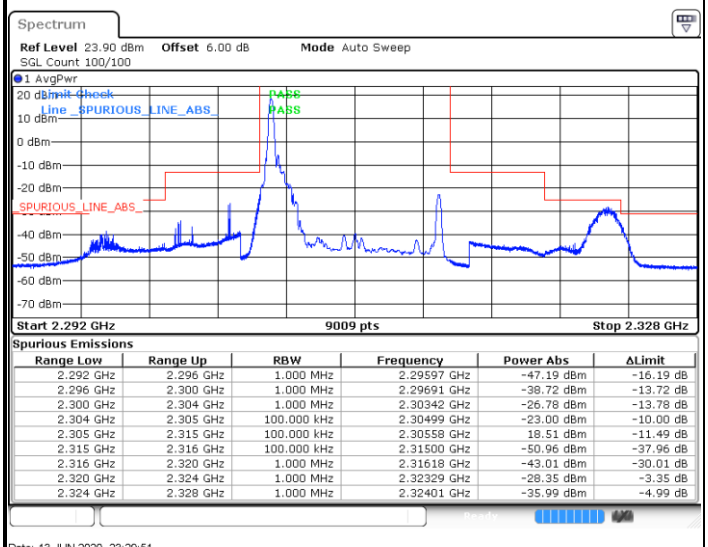


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29600 GHz	-32.04 dBm	-1.04 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29988 GHz	-26.67 dBm	-1.67 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30368 GHz	-21.26 dBm	-8.26 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30490 GHz	-31.19 dBm	-18.19 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30643 GHz	4.02 dBm	-25.98 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31501 GHz	-31.20 dBm	-18.20 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31620 GHz	-22.33 dBm	-9.33 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32027 GHz	-27.19 dBm	-2.19 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32410 GHz	-35.62 dBm	-4.62 dB

Date: 13.JUN.2020 23:16:00

LTE Band 30 / 10MHz / 64QAM	
Lowest Band Edge / 1 RB	**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	-47.19 dBm	-16.19 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29691 GHz	-38.72 dBm	-13.72 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30342 GHz	-26.78 dBm	-13.78 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30499 GHz	-23.00 dBm	-10.00 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30558 GHz	18.51 dBm	-11.49 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-50.96 dBm	-37.96 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31618 GHz	-43.01 dBm	-30.01 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32329 GHz	-28.35 dBm	-3.35 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32401 GHz	-35.99 dBm	-4.99 dB

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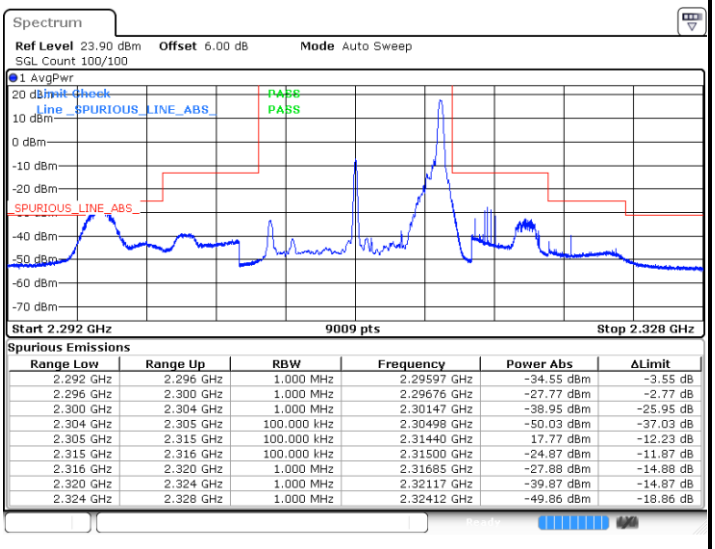

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29597 GHz	-34.55 dBm	-3.55 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29676 GHz	-27.77 dBm	-2.77 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30147 GHz	-38.95 dBm	-25.95 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30498 GHz	-50.03 dBm	-37.03 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.31440 GHz	17.77 dBm	-12.23 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31500 GHz	-24.87 dBm	-11.87 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31685 GHz	-27.88 dBm	-14.88 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32117 GHz	-39.87 dBm	-14.87 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32412 GHz	-49.86 dBm	-18.86 dB

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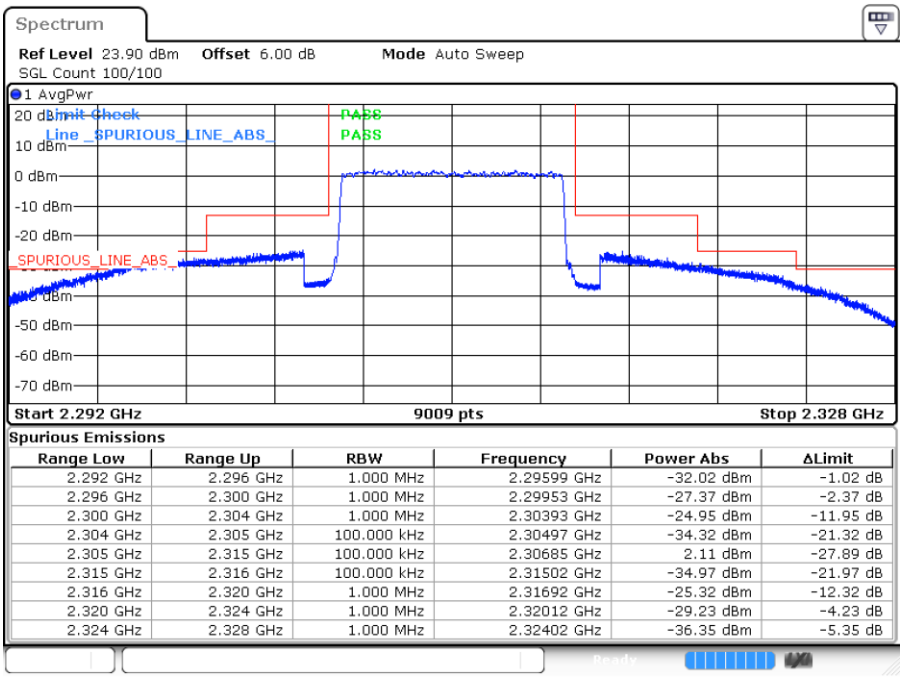
Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.29599 GHz	-32.02 dBm	-1.02 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.29953 GHz	-27.37 dBm	-2.37 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.30393 GHz	-24.95 dBm	-11.95 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.30497 GHz	-34.32 dBm	-21.32 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.30685 GHz	2.11 dBm	-27.89 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.31502 GHz	-34.97 dBm	-21.97 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.31692 GHz	-25.32 dBm	-12.32 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.32012 GHz	-29.23 dBm	-4.23 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.32402 GHz	-36.35 dBm	-5.35 dB

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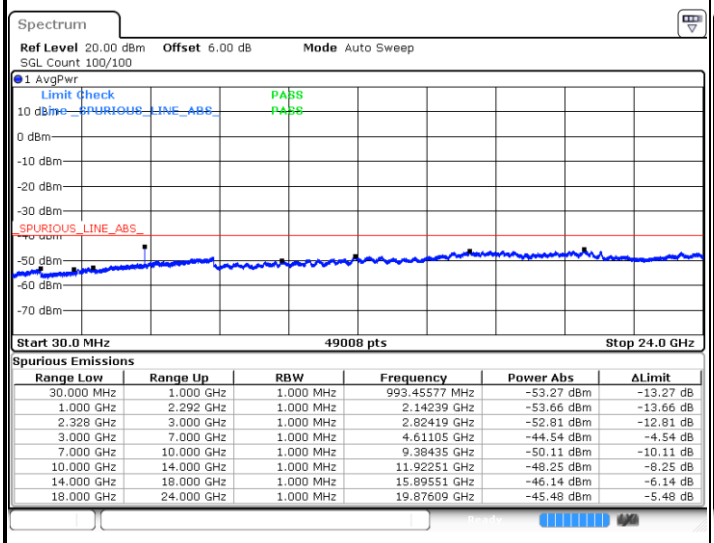
Conducted Spurious Emission

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	993.45577 MHz	-53.27 dBm	-13.27 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.14239 GHz	-53.66 dBm	-13.66 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.82419 GHz	-52.81 dBm	-12.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61105 GHz	-44.54 dBm	-4.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.38435 GHz	-50.11 dBm	-10.11 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.92251 GHz	-48.25 dBm	-8.25 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.89551 GHz	-46.14 dBm	-6.14 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.87609 GHz	-45.48 dBm	-5.48 dB

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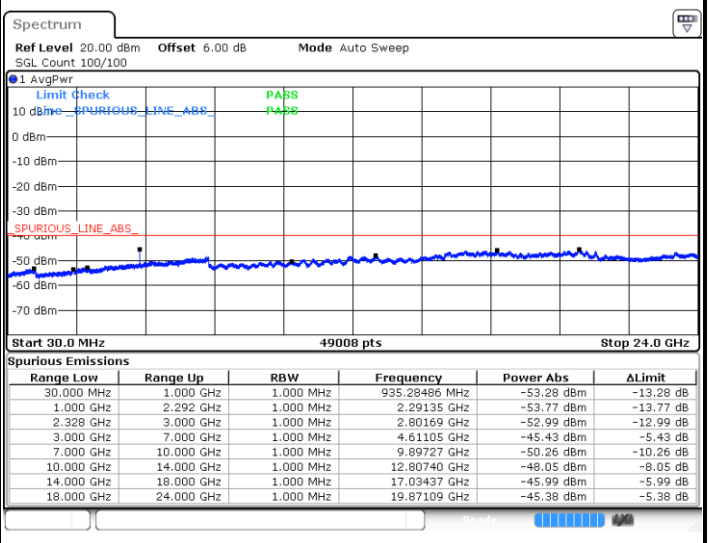
Lowest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-53.28 dBm	-13.28 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29135 GHz	-53.77 dBm	-13.77 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.80169 GHz	-52.99 dBm	-12.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61105 GHz	-45.43 dBm	-5.43 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89727 GHz	-50.26 dBm	-10.26 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.80740 GHz	-48.05 dBm	-8.05 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03437 GHz	-45.99 dBm	-5.99 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.87109 GHz	-45.38 dBm	-5.38 dB

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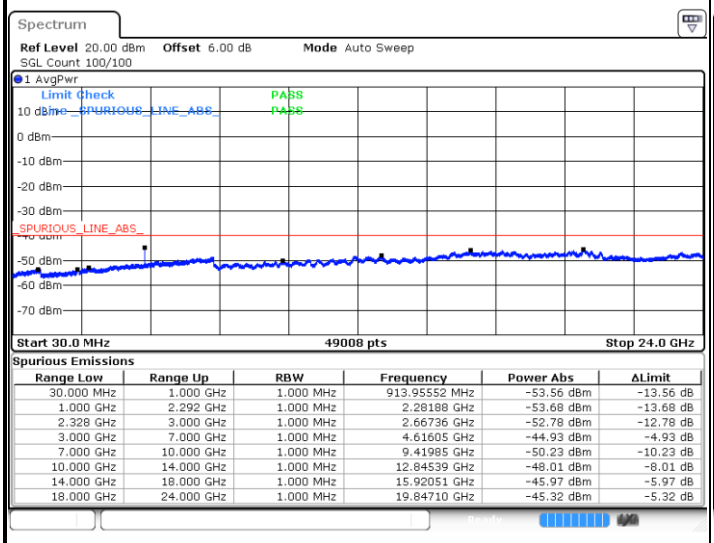
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	913.95552 MHz	-53.56 dBm	-13.56 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28188 GHz	-53.68 dBm	-13.68 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.66736 GHz	-52.78 dBm	-12.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61605 GHz	-44.93 dBm	-4.93 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.41985 GHz	-50.23 dBm	-10.23 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84539 GHz	-48.01 dBm	-8.01 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.92051 GHz	-45.97 dBm	-5.97 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.84710 GHz	-45.32 dBm	-5.32 dB

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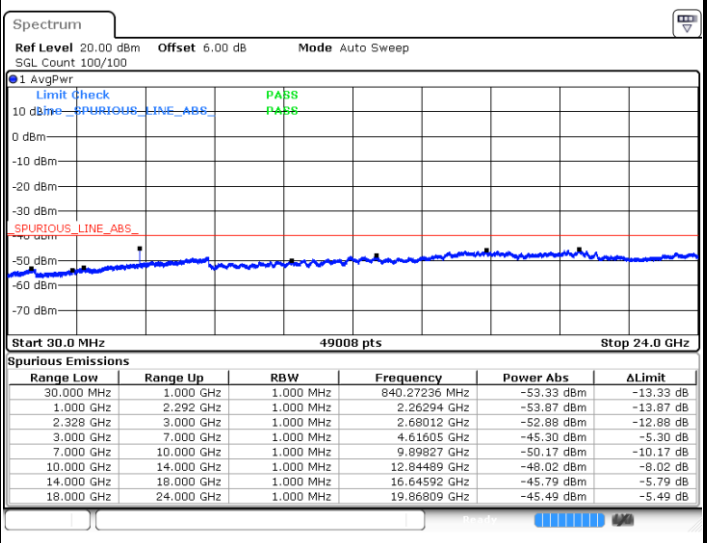
Middle Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	840.27236 MHz	-53.33 dBm	-13.33 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.26294 GHz	-53.87 dBm	-13.87 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.68012 GHz	-52.88 dBm	-12.88 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61605 GHz	-45.30 dBm	-5.30 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89827 GHz	-50.17 dBm	-10.17 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.84489 GHz	-48.02 dBm	-8.02 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64592 GHz	-45.79 dBm	-5.79 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86809 GHz	-45.49 dBm	-5.49 dB

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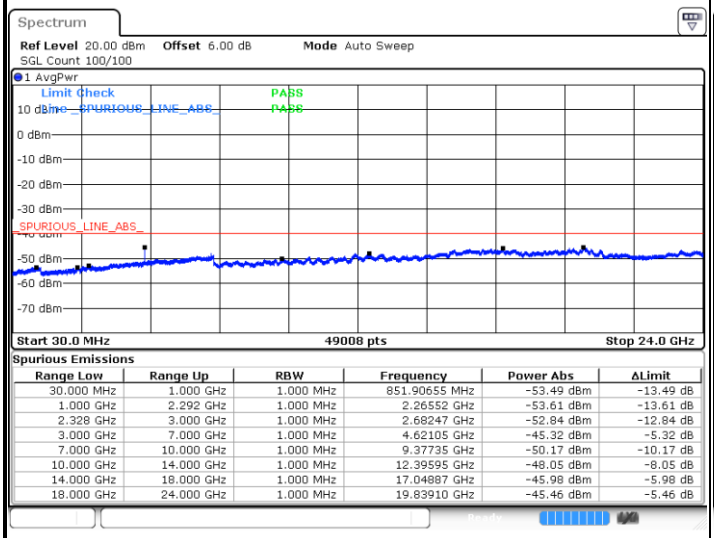
LTE Band 30 / 5MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	851.90655 MHz	-53.49 dBm	-13.49 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.26552 GHz	-53.61 dBm	-13.61 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.68247 GHz	-52.84 dBm	-12.84 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.62105 GHz	-45.32 dBm	-5.32 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.37735 GHz	-50.17 dBm	-10.17 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.39595 GHz	-48.05 dBm	-8.05 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04887 GHz	-45.98 dBm	-5.98 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.83910 GHz	-45.46 dBm	-5.46 dB

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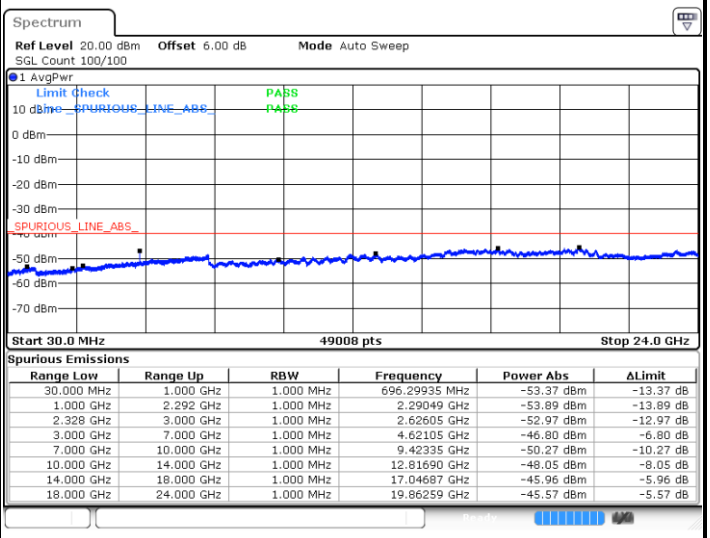
Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	696.29935 MHz	-53.37 dBm	-13.37 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.29049 GHz	-53.89 dBm	-13.89 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.62605 GHz	-52.97 dBm	-12.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.62105 GHz	-46.80 dBm	-6.80 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.42335 GHz	-50.27 dBm	-10.27 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.81690 GHz	-48.05 dBm	-8.05 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.04687 GHz	-45.96 dBm	-5.96 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86259 GHz	-45.57 dBm	-5.57 dB

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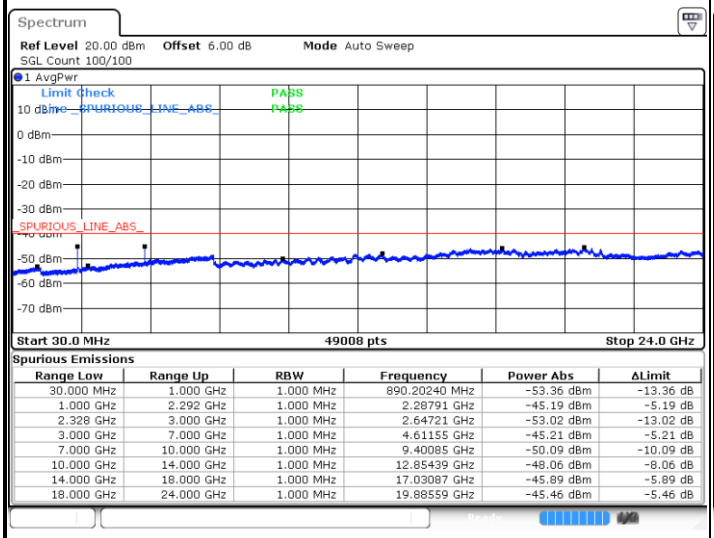
LTE Band 30 / 10MHz

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	890.20240 MHz	-53.36 dBm	-13.36 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28791 GHz	-45.19 dBm	-5.19 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.64721 GHz	-53.02 dBm	-13.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61155 GHz	-45.21 dBm	-5.21 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.40085 GHz	-50.09 dBm	-10.09 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85439 GHz	-48.06 dBm	-8.06 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03087 GHz	-45.89 dBm	-5.89 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.88559 GHz	-45.46 dBm	-5.46 dB

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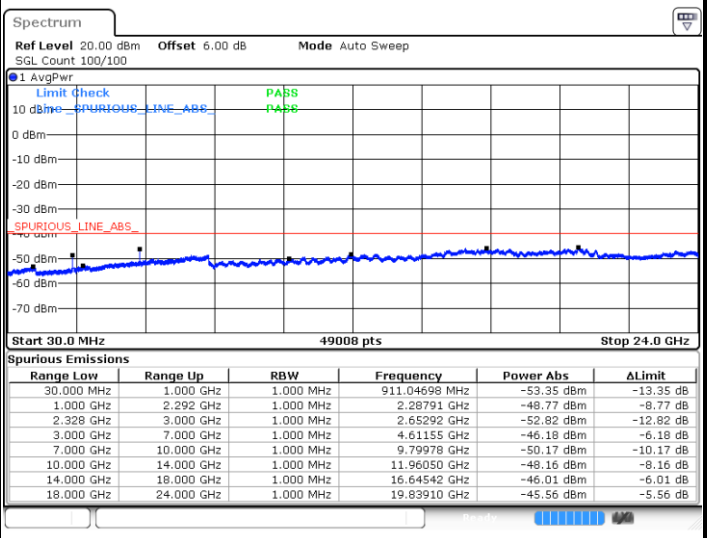
Middle Channel / 16QAM



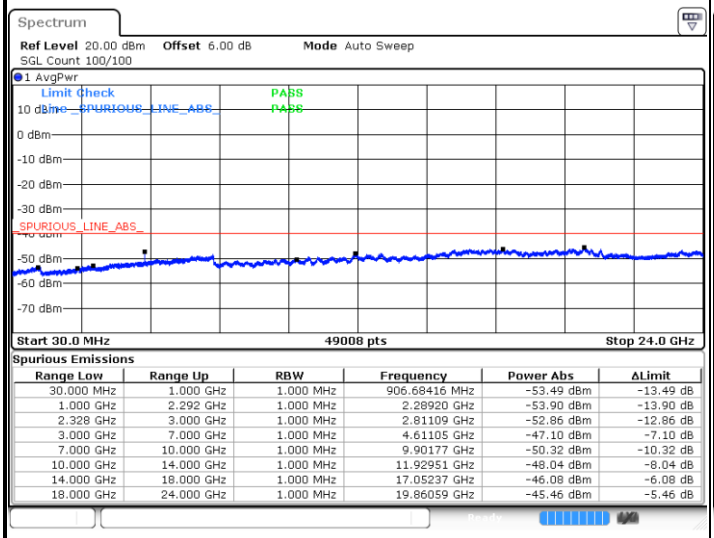
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	911.04698 MHz	-53.35 dBm	-13.35 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28791 GHz	-48.77 dBm	-8.77 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.65292 GHz	-52.82 dBm	-12.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61155 GHz	-46.18 dBm	-6.18 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.79978 GHz	-50.17 dBm	-10.17 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.96050 GHz	-48.16 dBm	-8.16 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.64542 GHz	-46.01 dBm	-6.01 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.83910 GHz	-45.56 dBm	-5.56 dB

Date: 13.JUN.2020 23:29:11

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	906.68416 MHz	-53.49 dBm	-13.49 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28920 GHz	-53.90 dBm	-13.90 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.81109 GHz	-52.86 dBm	-12.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61105 GHz	-47.10 dBm	-7.10 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.90177 GHz	-50.32 dBm	-10.32 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.92951 GHz	-48.04 dBm	-8.04 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.05237 GHz	-46.08 dBm	-6.08 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86059 GHz	-45.46 dBm	-5.46 dB

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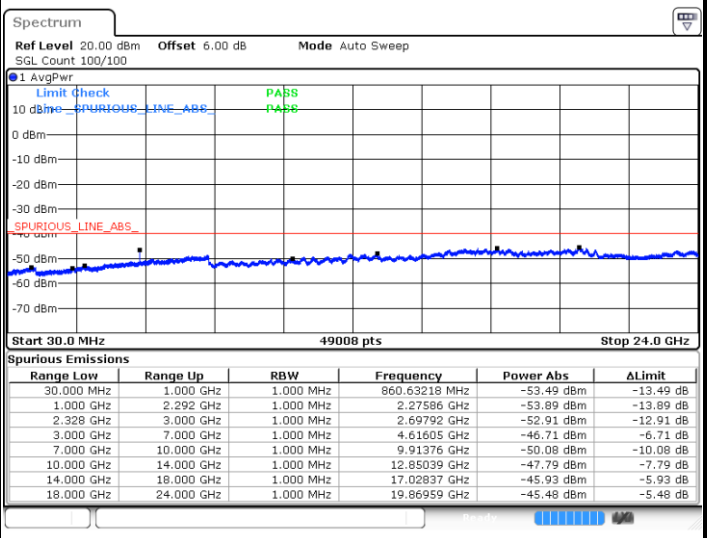
Middle Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	860.63218 MHz	-53.49 dBm	-13.49 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.27586 GHz	-53.89 dBm	-13.89 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.69792 GHz	-52.91 dBm	-12.91 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61605 GHz	-46.71 dBm	-6.71 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.91376 GHz	-50.08 dBm	-10.08 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85039 GHz	-47.79 dBm	-7.79 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.02837 GHz	-45.93 dBm	-5.93 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.86959 GHz	-45.48 dBm	-5.48 dB

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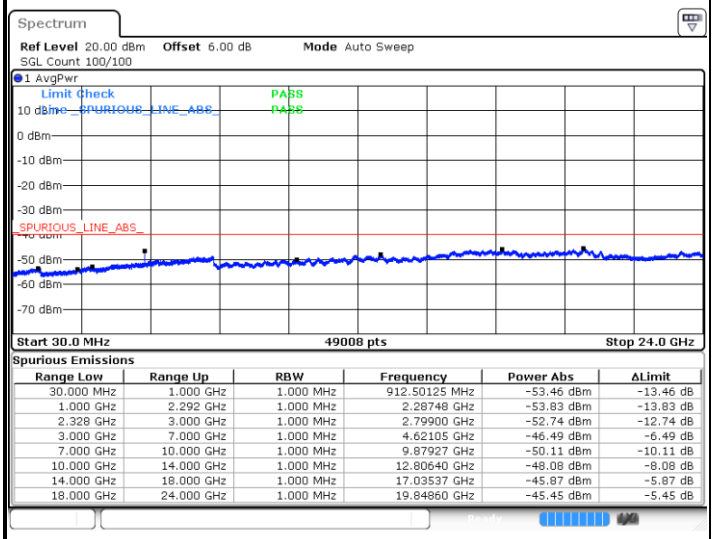
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	912.50125 MHz	-53.46 dBm	-13.46 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28748 GHz	-53.83 dBm	-13.83 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.79900 GHz	-52.74 dBm	-12.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.62105 GHz	-46.49 dBm	-6.49 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.87927 GHz	-50.11 dBm	-10.11 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.80640 GHz	-48.08 dBm	-8.08 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.03537 GHz	-45.87 dBm	-5.87 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.84860 GHz	-45.45 dBm	-5.45 dB

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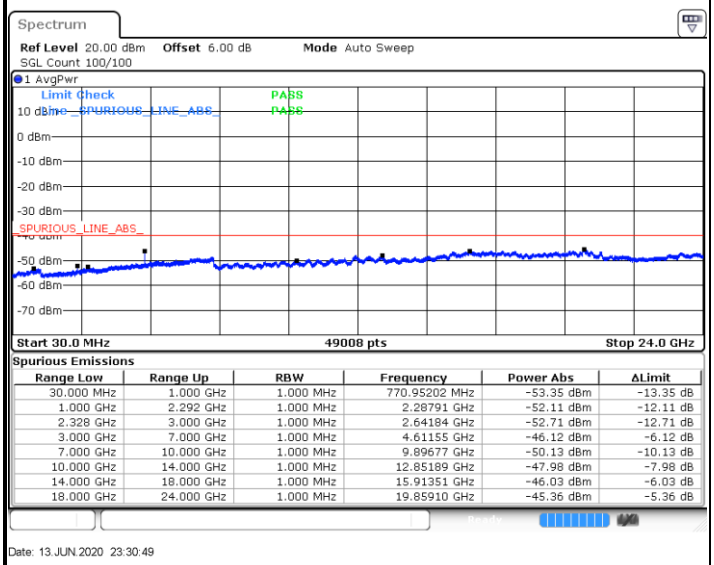
LTE Band 30 / 10MHz	
Middle Channel / 64QAM	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	770.95202 MHz	-53.35 dBm	-13.35 dB
1.000 GHz	2.292 GHz	1.000 MHz	2.28791 GHz	-52.11 dBm	-12.11 dB
2.328 GHz	3.000 GHz	1.000 MHz	2.64184 GHz	-52.71 dBm	-12.71 dB
3.000 GHz	7.000 GHz	1.000 MHz	4.61155 GHz	-46.12 dBm	-6.12 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.89677 GHz	-50.13 dBm	-10.13 dB
10.000 GHz	14.000 GHz	1.000 MHz	12.85189 GHz	-47.98 dBm	-7.98 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.91351 GHz	-46.03 dBm	-6.03 dB
18.000 GHz	24.000 GHz	1.000 MHz	19.85910 GHz	-45.36 dBm	-5.36 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	0.0033	PASS
40	Normal Voltage	0.0025	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0033	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 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 / 5MHz / 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)
Lowest	4612	-65.84	-40	-25.84	-77.30	2.84	14.30	H
	6916	-61.70	-40	-21.70	-71.64	3.49	13.43	H
	9220	-58.52	-40	-18.52	-68.76	3.85	14.09	H
	4612	-65.98	-40	-25.98	-77.44	2.84	14.30	V
	6916	-61.38	-40	-21.38	-71.32	3.49	13.43	V
	9220	-58.36	-40	-18.36	-68.60	3.85	14.09	V
Middle	4616	-66.12	-40	-26.12	-77.58	2.84	14.30	H
	6923.52	-61.63	-40	-21.63	-71.57	3.49	13.43	H
	9230	-58.83	-40	-18.83	-69.07	3.85	14.09	H
	4615.68	-65.88	-40	-25.88	-77.34	2.84	14.30	V
	6924	-61.29	-40	-21.29	-71.23	3.49	13.43	V
	9230	-58.29	-40	-18.29	-68.53	3.85	14.09	V
Highest	4620	-66.04	-40	-26.04	-77.50	2.84	14.30	H
	6931.02	-61.47	-40	-21.47	-71.41	3.49	13.43	H
	9240	-59.06	-40	-19.06	-69.30	3.85	14.09	H
	4620.68	-66.20	-40	-26.20	-77.66	2.84	14.30	V
	6932	-61.27	-40	-21.27	-71.21	3.49	13.43	V
	9240	-58.46	-40	-18.46	-68.70	3.85	14.09	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4612	-65.96	-40	-25.96	-77.42	2.84	14.30	H
	6916	-57.86	-40	-17.86	-67.80	3.49	13.43	H
	9220	-59.01	-40	-19.01	-69.25	3.85	14.09	H
	4612	-64.15	-40	-24.15	-75.61	2.84	14.30	V
	6916	-53.51	-40	-13.51	-63.45	3.49	13.43	V
	9220	-58.13	-40	-18.13	-68.37	3.85	14.09	V

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