FCC RF Test Report

APPLICANT	:	**Lenovo (Shanghai) Electronics Technology Co., Ltd.**
EQUIPMENT	:	**Portable Tablet Computer**
BRAND NAME	:	**Lenovo**
MODEL NAME	:	**A101LV**
FCC ID	:	**O57TABA101LV**
STANDARD	:	**47 CFR Part 2, 27(M)**
CLASSIFICATION	:	**Licensed Non-Broadcast Station Transmitter (TNB)**

The product was received on Feb. 03, 2021 and completely tested on Apr. 02, 2021. 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

Alex Wang

Approved by: Alex Wang / 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
FG120303A	Rev. 01	Initial issue of report	May 11, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 41)	EIRP < 2Watt	PASS	
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< $55+10\log_{10}$(P[Watts])	PASS	Under limit 7.81 dB at 7752 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	A101LV
FCC ID	O57TABA101LV
EUT supports Radios application	WCDMA/LTE/5G NR, 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 and GNSS
IMEI Code	Conducted: 863921050015174 Radiation: 356615380007281/356615380007209
HW Version	Lenovo Tablet A101LV
SW Version	A101LV_S000016_210305_Q6350-userdebug_jp
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 41 : 23.63 dBm
Antenna Gain	LTE Band 41 : 2.0 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 41		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)
20	2506.0 ~ 2680.0	18M3G7D	0.0017	0.3656	18M3W7D	-	0.2965

1.7 Testing Location

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	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- 47 CFR Part 2, 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems 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

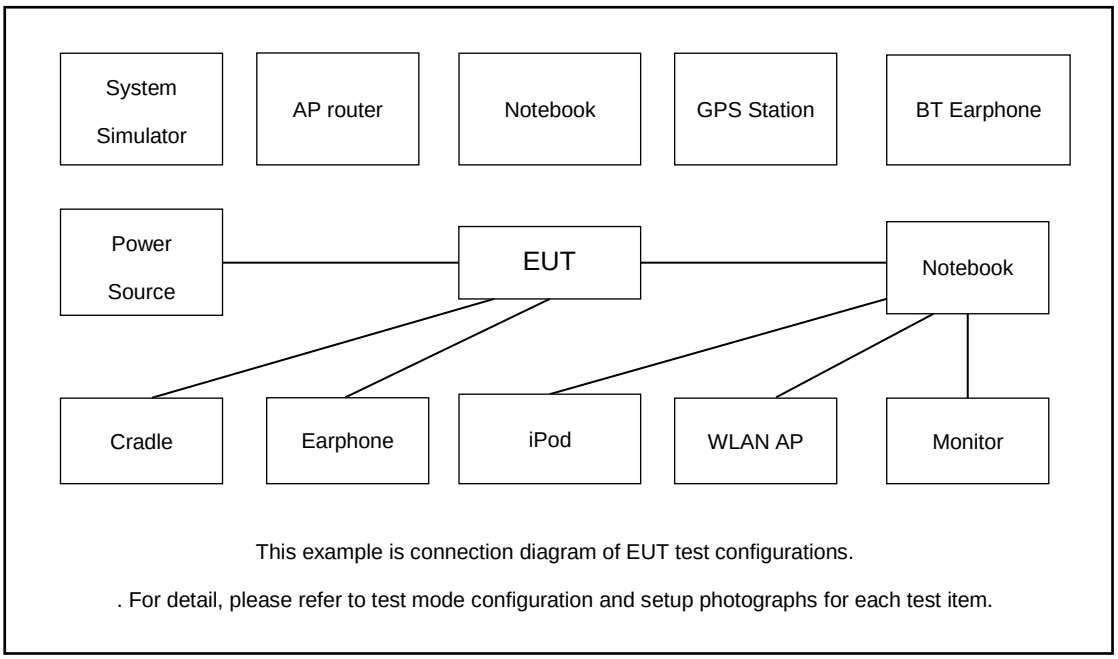
2.1 Test Mode

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.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	41	-	-	v	v	v	v	v	v		v	v	v	v	v	v
Peak-to-Average Ratio	41	-	-				v	v	v				v		v	
26dB and 99% Bandwidth	41	-	-				v	v	v				v		v	
Conducted Band Edge	41	-	-	v	v	v	v	v	v		v		v	v		v
Conducted Spurious Emission	41	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	41	-	-				v	v					v		v	
E.R.P / E.I.R.P	41	-	-	v	v	v	v	v	v		v			v	v	v
Radiated Spurious Emission	41	Worst Case												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. 4. All test items are based on engineering evaluation.															

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C/MT8000	N/A	N/A	Unshielded, 1.8 m

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 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.

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 41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5

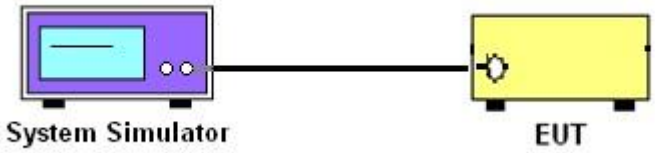
3 Conducted Test Items

3.1 Measuring Instruments

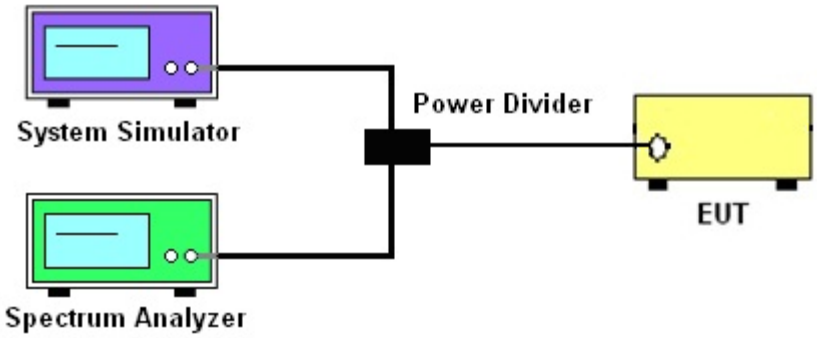
See list of measuring instruments of this test report.

3.2 Test Setup

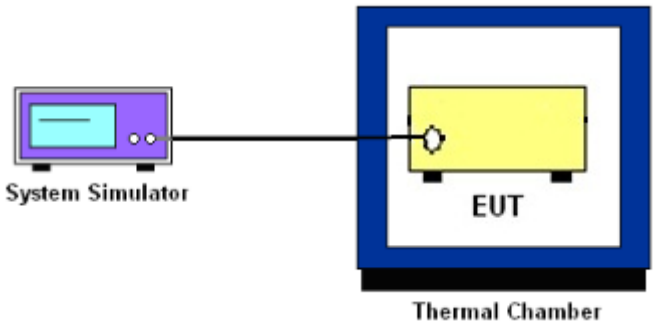
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted 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 and EIRP

3.4.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 41.

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 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 Occupied Bandwidth

3.6.1 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.

3.6.2 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.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 41:

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

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

3.8.2 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 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 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.
11. For Band 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 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.

3.9.2 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.

3.9.3 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.

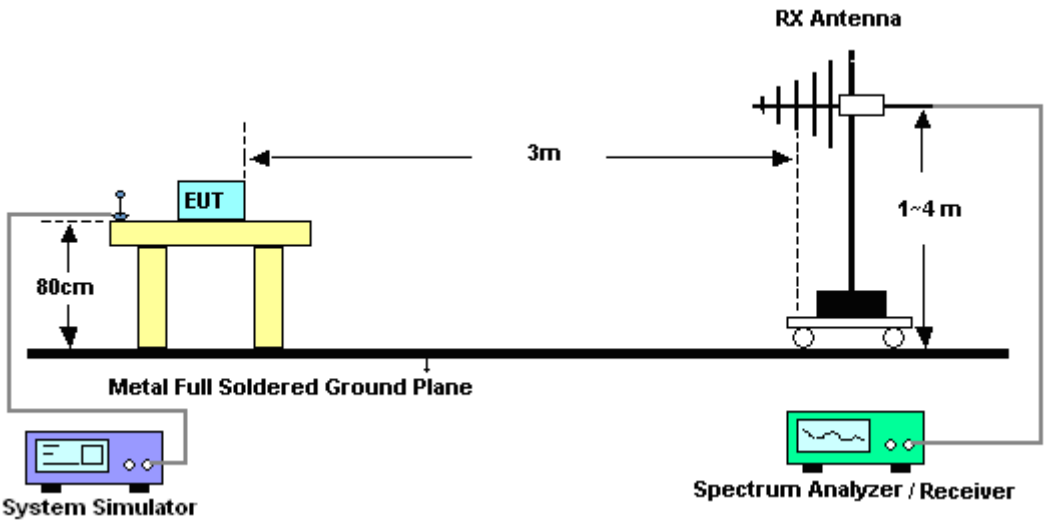
4 Radiated Test Items

4.1 Measuring Instruments

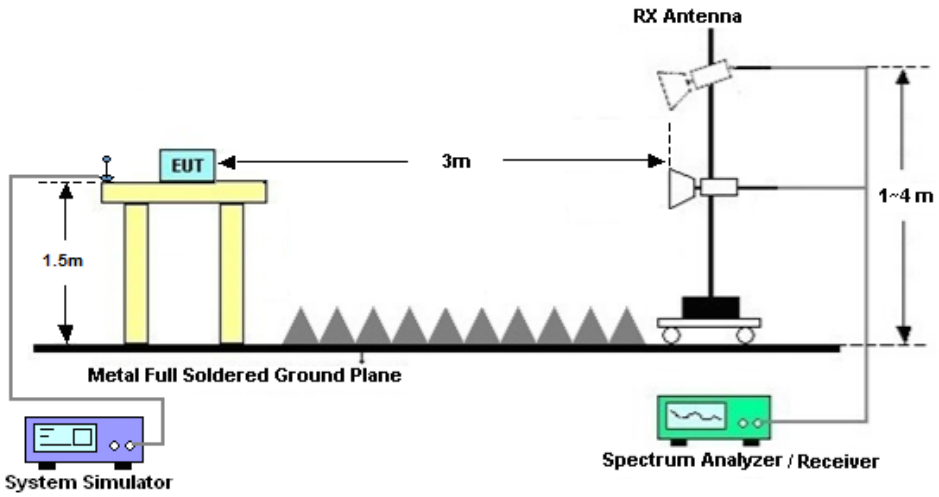
See list of measuring instruments of this test report.

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

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 43 + 10 log (P) dB.

For Band 41

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

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.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

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. 01, 2020	Mar. 24, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 03, 2020	Mar. 24, 2021	Jul. 02, 2021	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Apr. 02, 2021	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 08, 2020	Apr. 02, 2021	Jun. 07, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Apr. 02, 2021	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Apr. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Apr. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 07, 2021	Apr. 02, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Apr. 02, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Apr. 02, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 02, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 02, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 02, 2021	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) and ERP/EIRP

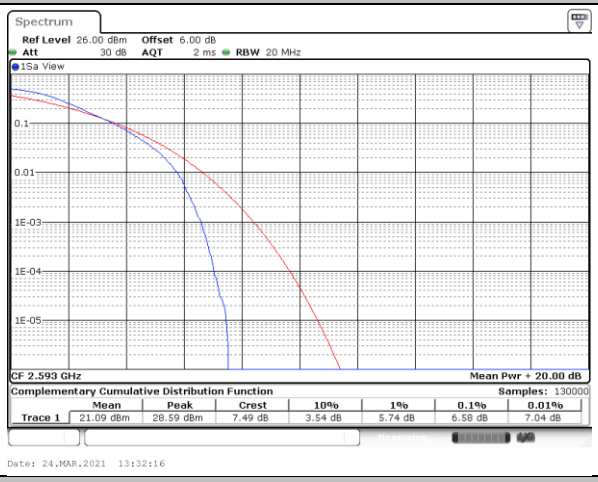
LTE Band 41									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	23.48	23.63	23.42	0.3532	0.3656	0.3483
20	QPSK	1	99	23.58	23.28	23.42	0.3614	0.3373	0.3483
20	QPSK	100	0	22.45	22.49	22.42	0.2786	0.2812	0.2767
20	16QAM	1	0	22.72	22.58	22.62	0.2965	0.2871	0.2897
20	64QAM	1	0	21.59	21.50	21.35	0.2286	0.2239	0.2163
Channel				39725	40620	41515	EIRP		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	23.58	23.51	23.50	0.3614	0.3556	0.3548
15	16QAM	1	0	22.68	22.57	22.56	0.2938	0.2864	0.2858
Channel				39700	40620	41540	EIRP		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	23.59	23.46	23.37	0.3622	0.3516	0.3443
10	16QAM	1	0	22.71	22.57	22.55	0.2958	0.2864	0.2851
Channel				39675	40620	41565	EIRP		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	23.51	23.43	23.53	0.3556	0.3491	0.3573
5	16QAM	1	0	22.62	22.53	22.61	0.2897	0.2838	0.2891

LTE Band 41

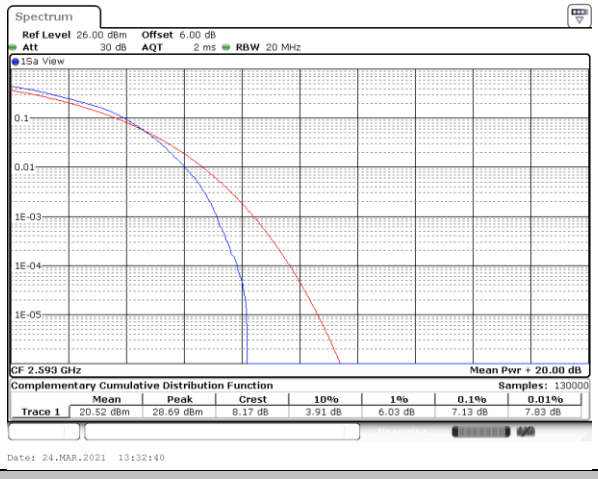
Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	6.58	7.13	8.64	PASS

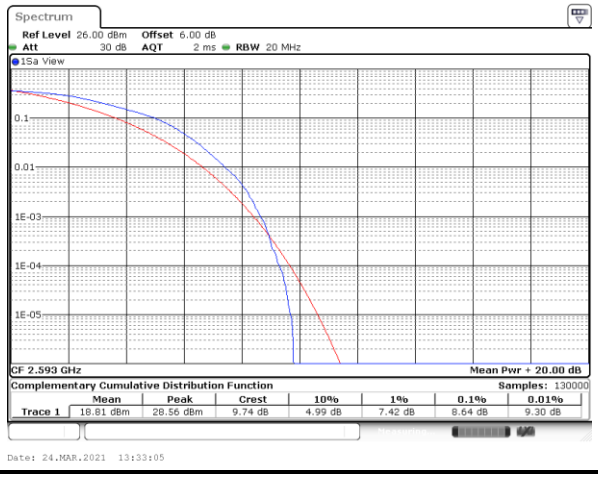
LTE Band 41 / 20MHz
Middle Channel / Full RB / QPSK



Middle Channel / Full RB / 16QAM



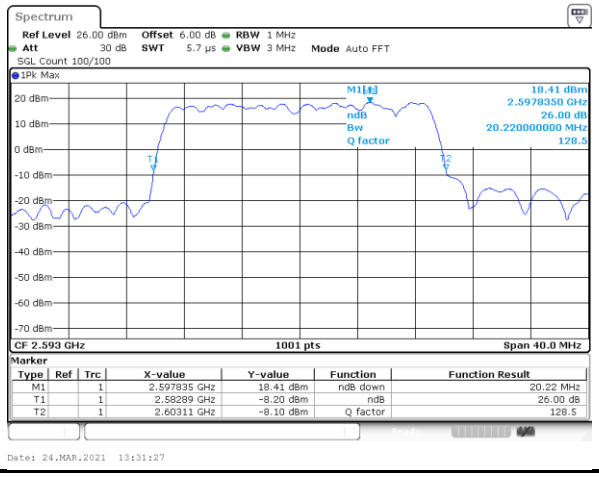
Middle Channel / Full RB / 64QAM

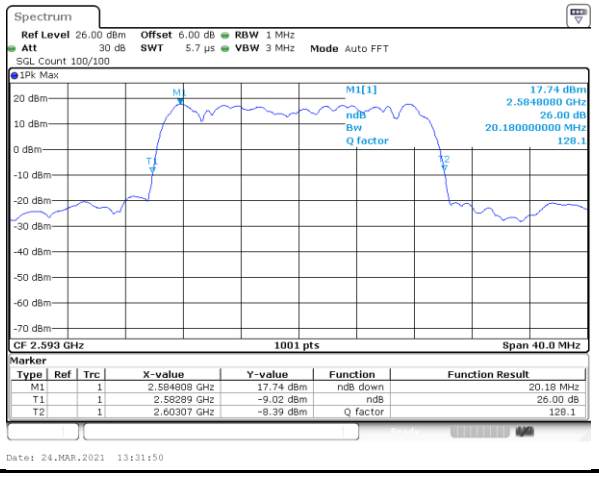


26dB Bandwidth

Mode	LTE Band 41 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.22	20.18

LTE Band 41	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

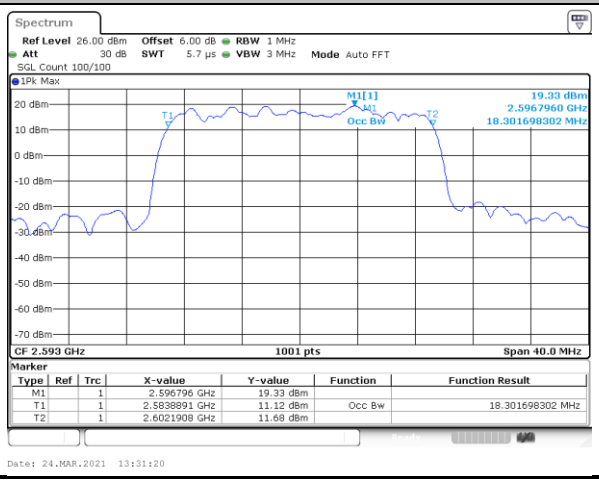


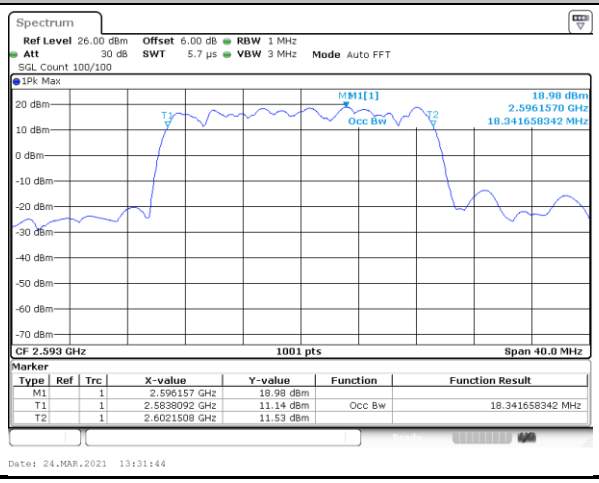


Occupied Bandwidth

Mode	LTE Band 41 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.30	18.34

LTE Band 41	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

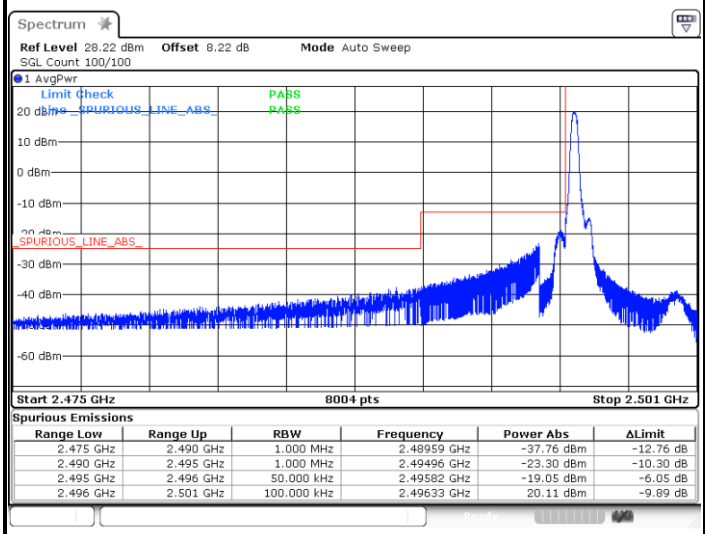




Conducted Band Edge

LTE Band 41 / 5MHz / QPSK

Lowest Band Edge / 1 RB

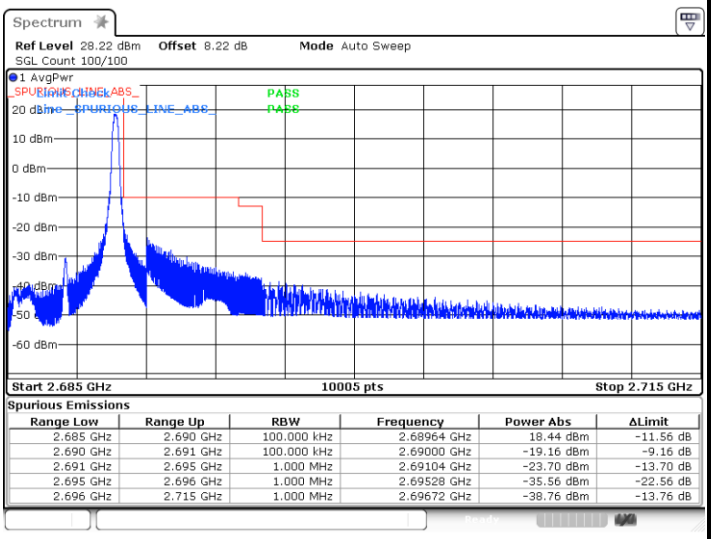


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48959 GHz	-37.76 dBm	-12.76 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49496 GHz	-23.30 dBm	-10.30 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49582 GHz	-19.05 dBm	-6.05 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49633 GHz	20.11 dBm	-9.89 dB

Date: 24.MAR.2021 12:21:41

Highest Band Edge / 1 RB

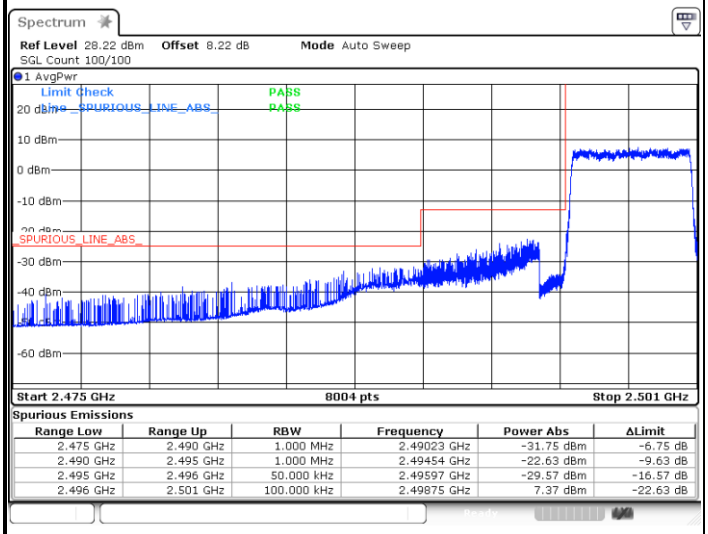


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68964 GHz	18.44 dBm	-11.56 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69000 GHz	-19.16 dBm	-9.16 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69104 GHz	-23.70 dBm	-13.70 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69528 GHz	-35.56 dBm	-22.56 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69672 GHz	-38.76 dBm	-13.76 dB

Date: 24.MAR.2021 12:28:43

Lowest Band Edge / Full RB

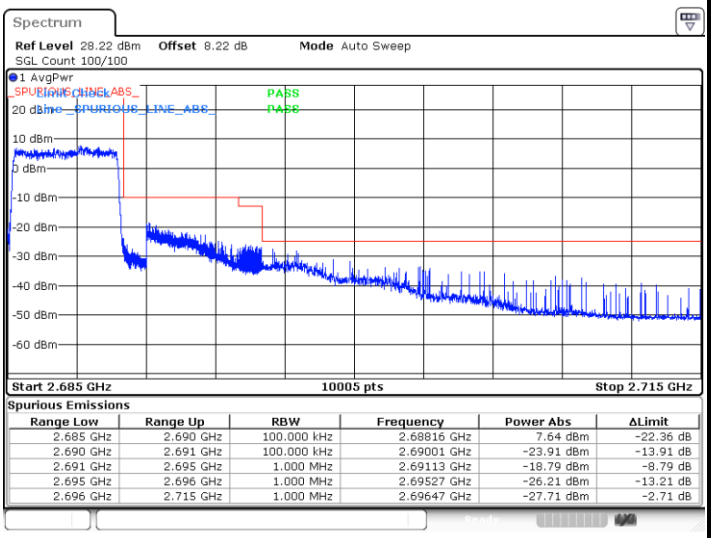


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49023 GHz	-31.75 dBm	-6.75 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49454 GHz	-22.63 dBm	-9.63 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49597 GHz	-29.57 dBm	-16.57 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49875 GHz	7.37 dBm	-22.63 dB

Date: 24.MAR.2021 12:14:58

Highest Band Edge / Full RB



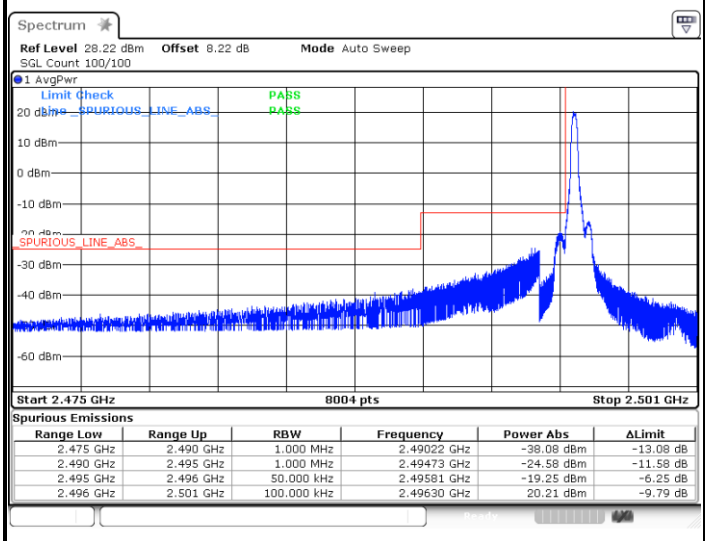
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68816 GHz	7.64 dBm	-22.36 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69001 GHz	-23.91 dBm	-13.91 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69113 GHz	-18.79 dBm	-8.79 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69527 GHz	-26.21 dBm	-13.21 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69647 GHz	-27.71 dBm	-2.71 dB

Date: 24.MAR.2021 12:25:18

LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB

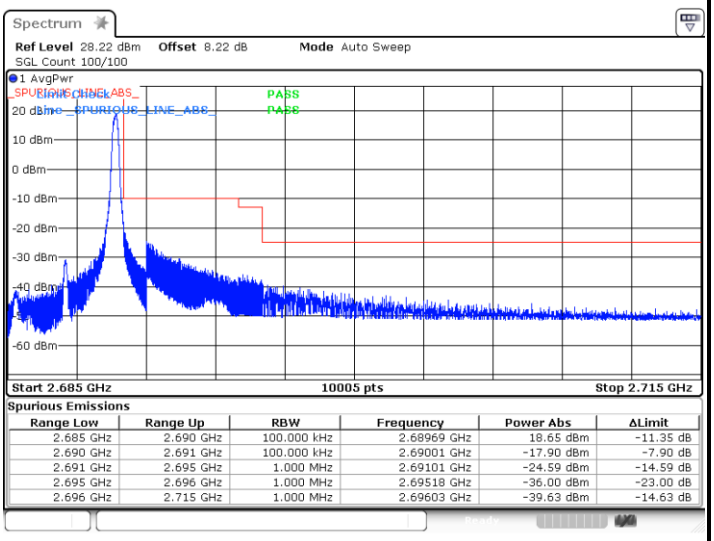


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49022 GHz	-38.08 dBm	-13.08 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49473 GHz	-24.58 dBm	-11.58 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49581 GHz	-19.25 dBm	-6.25 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49630 GHz	20.21 dBm	-9.79 dB

Date: 24.MAR.2021 13:39:26

Highest Band Edge / 1 RB

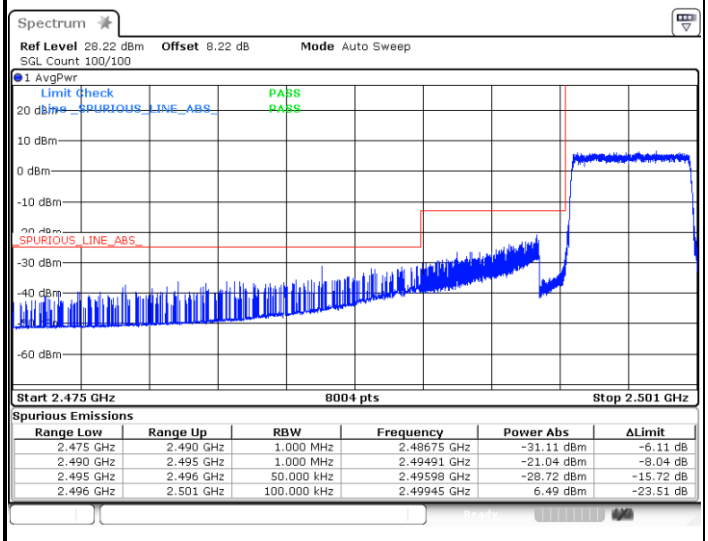


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68969 GHz	18.65 dBm	-11.35 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69001 GHz	-17.90 dBm	-7.90 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69101 GHz	-24.59 dBm	-14.59 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69518 GHz	-36.00 dBm	-23.00 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69603 GHz	-39.63 dBm	-14.63 dB

Date: 24.MAR.2021 12:30:34

Lowest Band Edge / Full RB

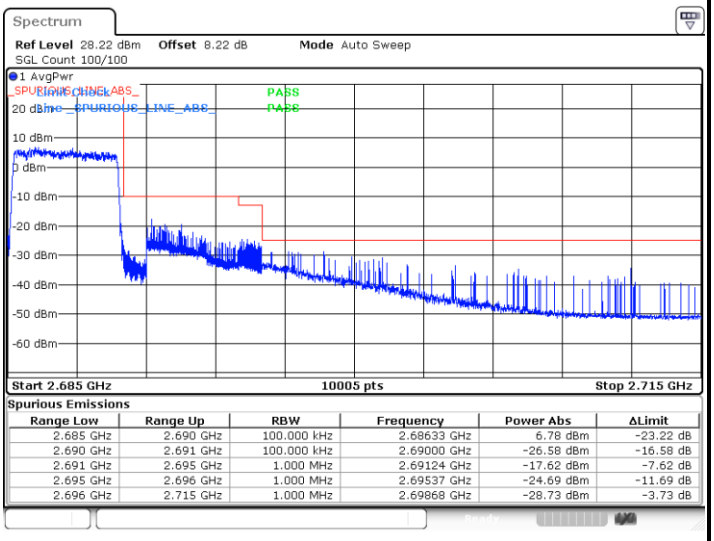


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48675 GHz	-31.11 dBm	-6.11 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49491 GHz	-21.04 dBm	-8.04 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49598 GHz	-28.72 dBm	-15.72 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49945 GHz	6.49 dBm	-23.51 dB

Date: 24.MAR.2021 12:16:12

Highest Band Edge / Full RB



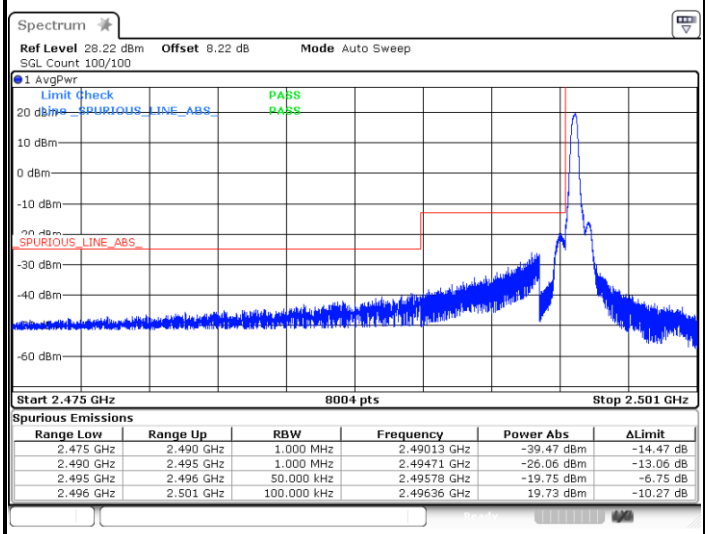
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68633 GHz	6.78 dBm	-23.22 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69000 GHz	-26.58 dBm	-16.58 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69124 GHz	-17.62 dBm	-7.62 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69537 GHz	-24.69 dBm	-11.69 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69868 GHz	-28.73 dBm	-3.73 dB

Date: 24.MAR.2021 12:23:58

LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB

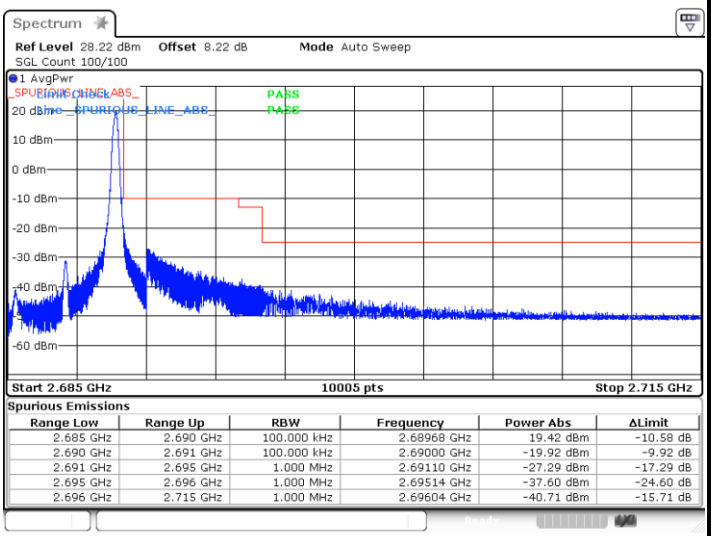


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49013 GHz	-39.47 dBm	-14.47 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49471 GHz	-26.06 dBm	-13.06 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49578 GHz	-19.75 dBm	-6.75 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49636 GHz	19.73 dBm	-10.27 dB

Date: 24.MAR.2021 12:18:43

Highest Band Edge / 1 RB

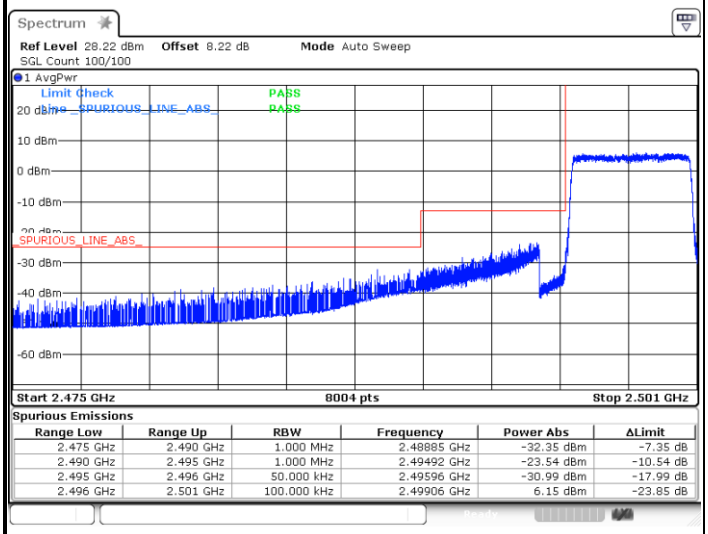


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68968 GHz	19.42 dBm	-10.58 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69000 GHz	-19.92 dBm	-9.92 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69110 GHz	-27.29 dBm	-17.29 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69514 GHz	-37.60 dBm	-24.60 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69604 GHz	-40.71 dBm	-15.71 dB

Date: 24.MAR.2021 12:34:38

Lowest Band Edge / Full RB

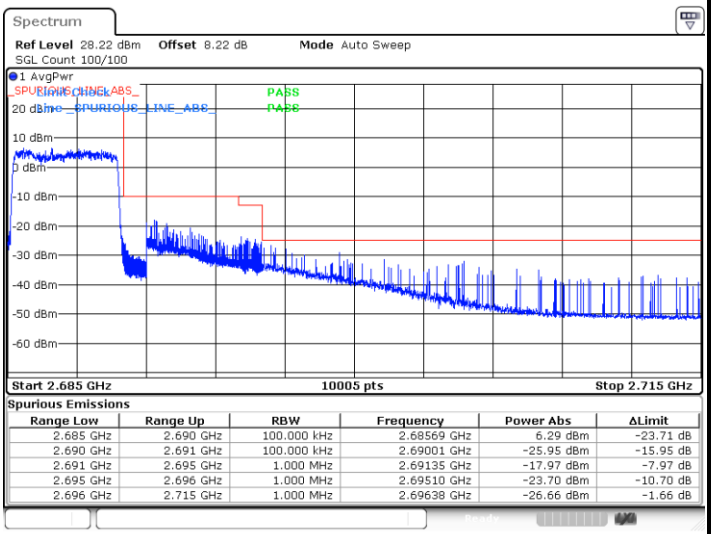


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48885 GHz	-32.35 dBm	-7.35 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49492 GHz	-23.54 dBm	-10.54 dB
2.495 GHz	2.496 GHz	50.000 kHz	2.49596 GHz	-30.99 dBm	-17.99 dB
2.496 GHz	2.501 GHz	100.000 kHz	2.49906 GHz	6.15 dBm	-23.85 dB

Date: 24.MAR.2021 12:17:00

Highest Band Edge / Full RB



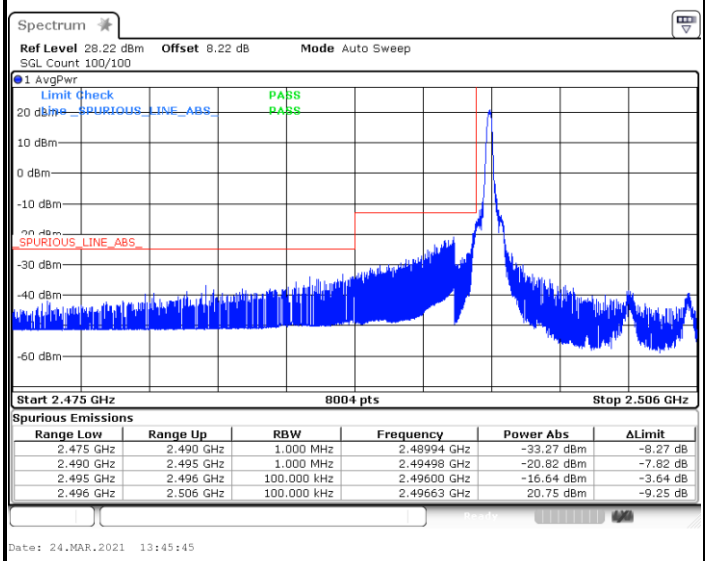
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.685 GHz	2.690 GHz	100.000 kHz	2.68569 GHz	6.29 dBm	-23.71 dB
2.690 GHz	2.691 GHz	100.000 kHz	2.69001 GHz	-25.95 dBm	-15.95 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69135 GHz	-17.97 dBm	-7.97 dB
2.695 GHz	2.696 GHz	1.000 MHz	2.69510 GHz	-23.70 dBm	-10.70 dB
2.696 GHz	2.715 GHz	1.000 MHz	2.69638 GHz	-26.66 dBm	-1.66 dB

Date: 24.MAR.2021 12:35:09

LTE Band 41 / 10MHz / QPSK

Lowest Band Edge / 1 RB

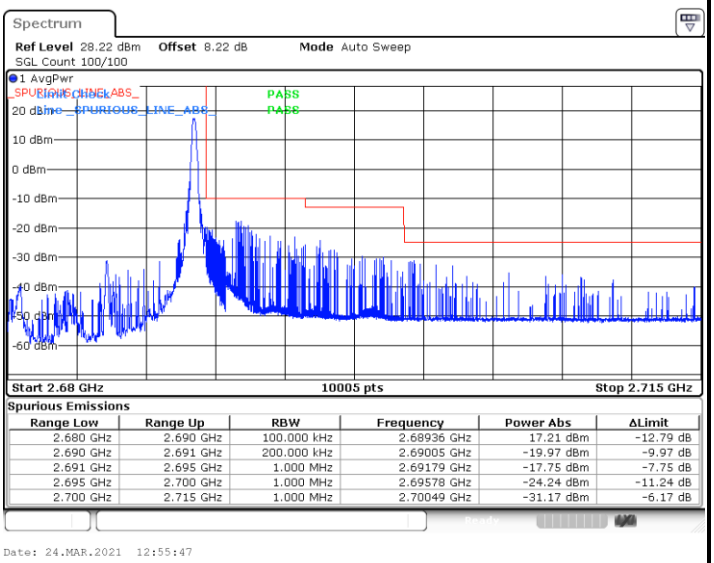


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48994 GHz	-33.27 dBm	-8.27 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49498 GHz	-20.82 dBm	-7.82 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49600 GHz	-16.64 dBm	-3.64 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.49663 GHz	20.75 dBm	-9.25 dB

Date: 24.MAR.2021 13:45:45

Highest Band Edge / 1 RB

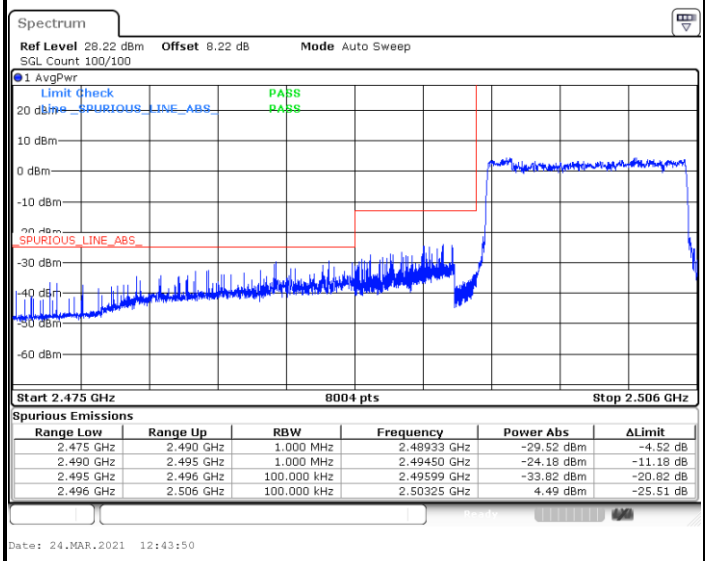


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68936 GHz	17.21 dBm	-12.79 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69005 GHz	-19.97 dBm	-9.97 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69179 GHz	-17.75 dBm	-7.75 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69578 GHz	-24.24 dBm	-11.24 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70049 GHz	-31.17 dBm	-6.17 dB

Date: 24.MAR.2021 12:55:47

Lowest Band Edge / Full RB

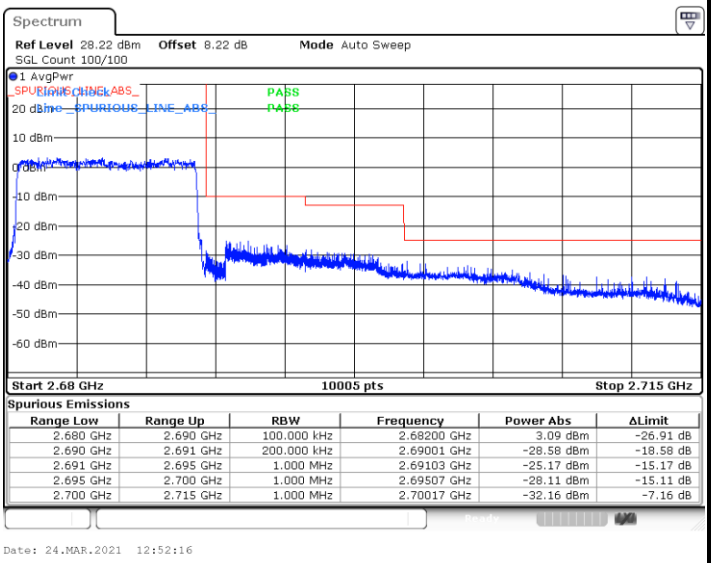


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48933 GHz	-29.52 dBm	-4.52 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49450 GHz	-24.18 dBm	-11.18 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49599 GHz	-33.82 dBm	-20.82 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.50325 GHz	4.49 dBm	-25.51 dB

Date: 24.MAR.2021 12:43:50

Highest Band Edge / Full RB



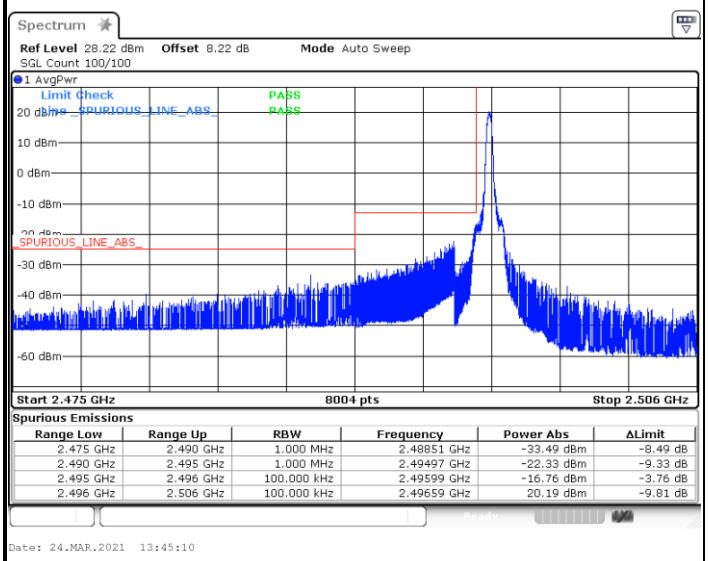
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68200 GHz	3.09 dBm	-26.91 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69001 GHz	-28.58 dBm	-18.58 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69103 GHz	-25.17 dBm	-15.17 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69507 GHz	-28.11 dBm	-15.11 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70017 GHz	-32.16 dBm	-7.16 dB

Date: 24.MAR.2021 12:52:16

LTE Band 41 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

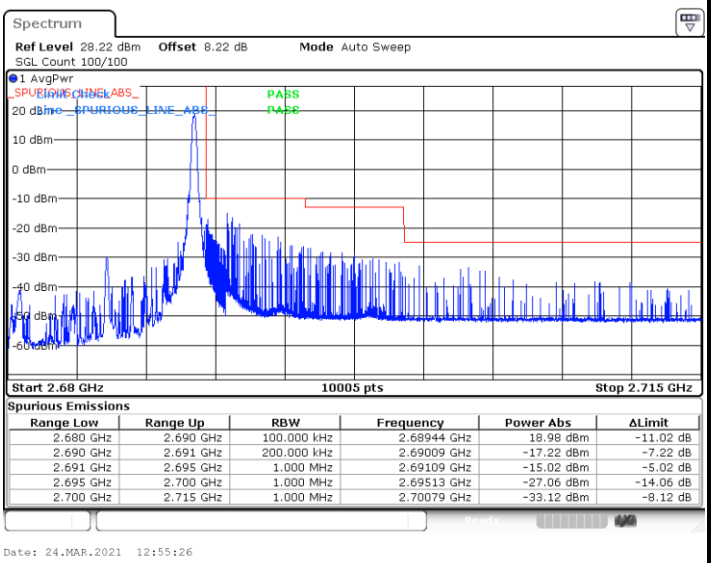


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48851 GHz	-33.49 dBm	-8.49 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49497 GHz	-22.33 dBm	-9.33 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49599 GHz	-16.76 dBm	-3.76 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.49659 GHz	20.19 dBm	-9.81 dB

Date: 24.MAR.2021 13:45:10

Highest Band Edge / 1 RB

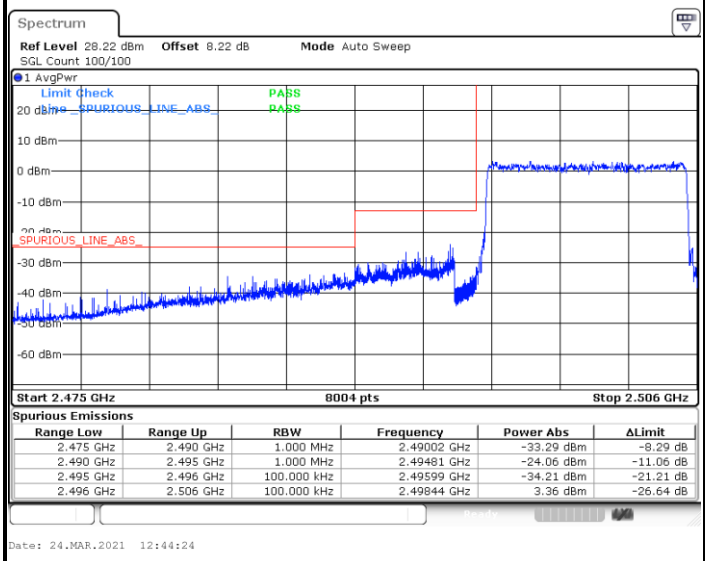


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68944 GHz	18.98 dBm	-11.02 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69009 GHz	-17.22 dBm	-7.22 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69109 GHz	-15.02 dBm	-5.02 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69513 GHz	-27.06 dBm	-14.06 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70079 GHz	-33.12 dBm	-8.12 dB

Date: 24.MAR.2021 12:55:26

Lowest Band Edge / Full RB

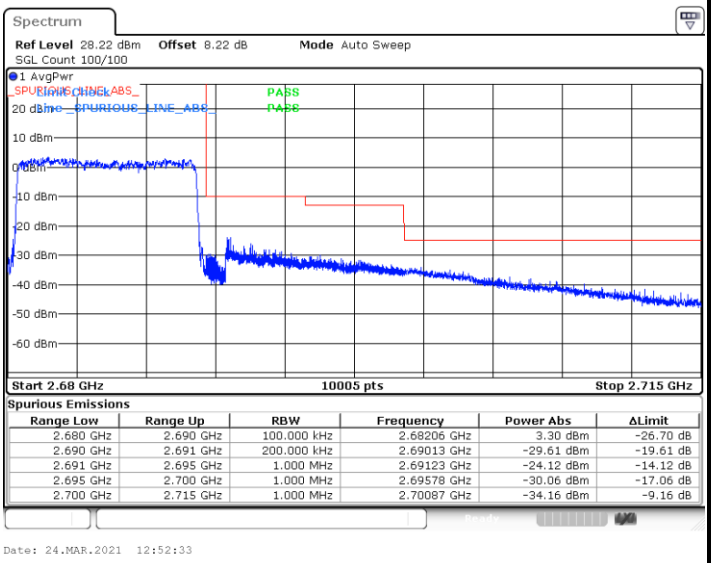


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49002 GHz	-33.29 dBm	-8.29 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49481 GHz	-24.06 dBm	-11.06 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49599 GHz	-34.21 dBm	-21.21 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.49844 GHz	3.36 dBm	-26.64 dB

Date: 24.MAR.2021 12:44:24

Highest Band Edge / Full RB



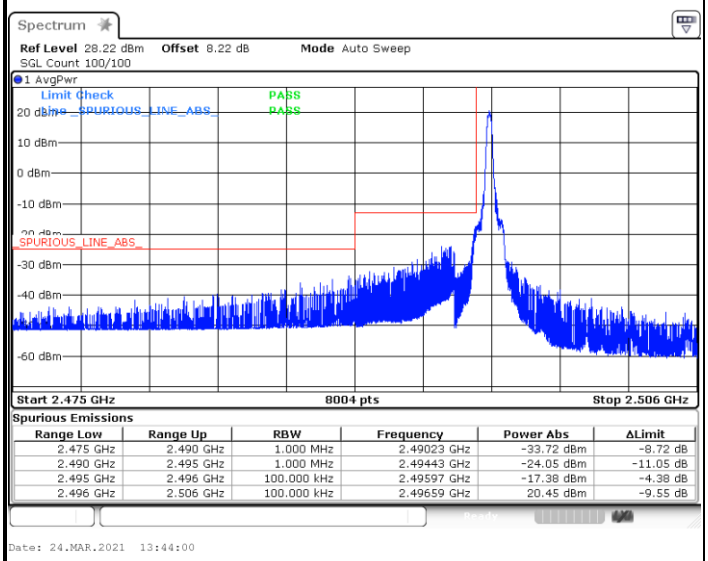
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68206 GHz	3.30 dBm	-26.70 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69013 GHz	-29.61 dBm	-19.61 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69123 GHz	-24.12 dBm	-14.12 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69578 GHz	-30.06 dBm	-17.06 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70087 GHz	-34.16 dBm	-9.16 dB

Date: 24.MAR.2021 12:52:33

LTE Band 41 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

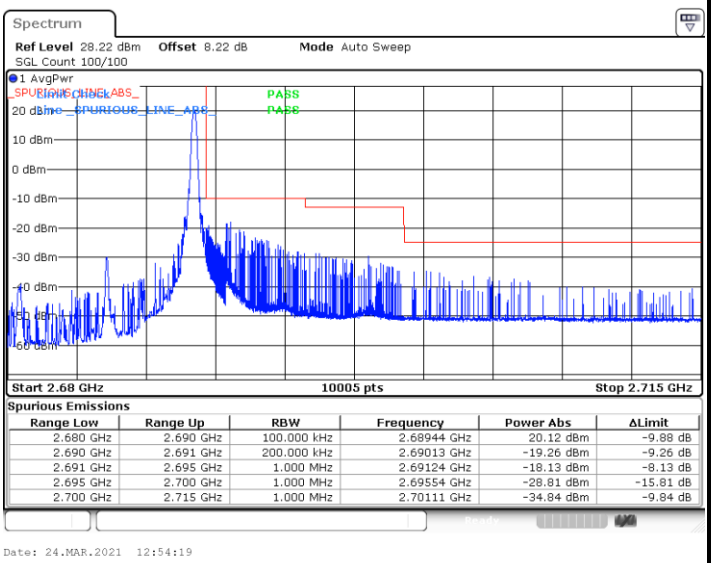


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49023 GHz	-33.72 dBm	-8.72 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49443 GHz	-24.05 dBm	-11.05 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49597 GHz	-17.38 dBm	-4.38 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.49659 GHz	20.45 dBm	-9.55 dB

Date: 24.MAR.2021 13:44:00

Highest Band Edge / 1 RB

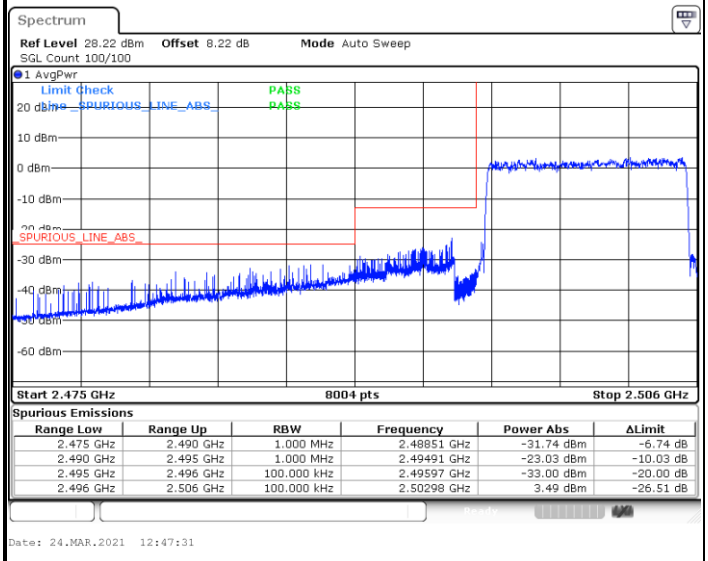


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68944 GHz	20.12 dBm	-9.88 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69013 GHz	-19.26 dBm	-9.26 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69124 GHz	-18.13 dBm	-8.13 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69554 GHz	-28.81 dBm	-15.81 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70111 GHz	-34.84 dBm	-9.84 dB

Date: 24.MAR.2021 12:54:19

Lowest Band Edge / Full RB

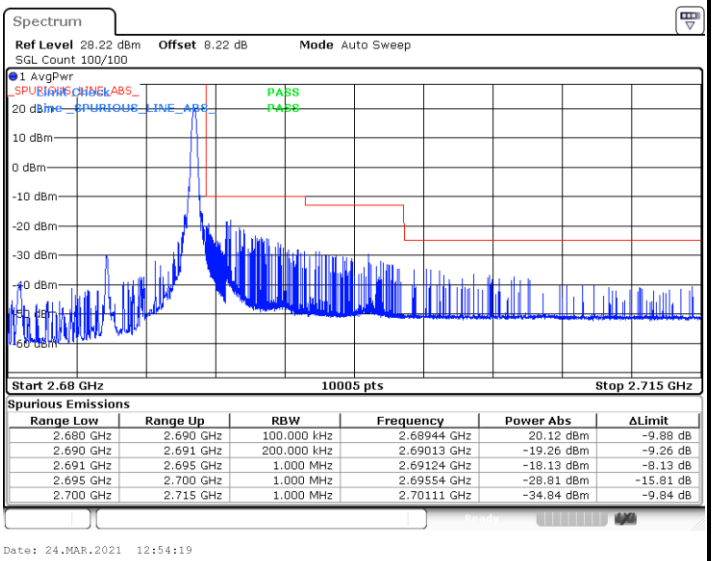


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48851 GHz	-31.74 dBm	-6.74 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49491 GHz	-23.03 dBm	-10.03 dB
2.495 GHz	2.496 GHz	100.000 kHz	2.49597 GHz	-33.00 dBm	-20.00 dB
2.496 GHz	2.506 GHz	100.000 kHz	2.50298 GHz	3.49 dBm	-26.51 dB

Date: 24.MAR.2021 12:47:31

Highest Band Edge / Full RB



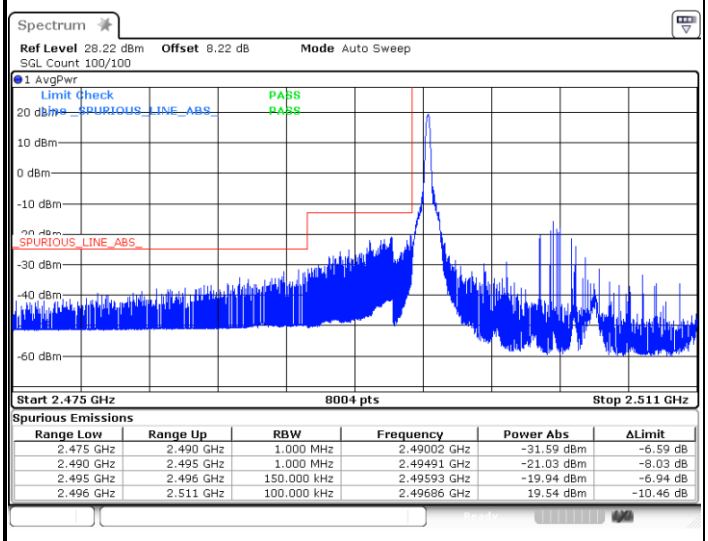
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.680 GHz	2.690 GHz	100.000 kHz	2.68944 GHz	20.12 dBm	-9.88 dB
2.690 GHz	2.691 GHz	200.000 kHz	2.69013 GHz	-19.26 dBm	-9.26 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69124 GHz	-18.13 dBm	-8.13 dB
2.695 GHz	2.700 GHz	1.000 MHz	2.69554 GHz	-28.81 dBm	-15.81 dB
2.700 GHz	2.715 GHz	1.000 MHz	2.70111 GHz	-34.84 dBm	-9.84 dB

Date: 24.MAR.2021 12:54:19

LTE Band 41 / 15MHz / QPSK

Lowest Band Edge / 1 RB

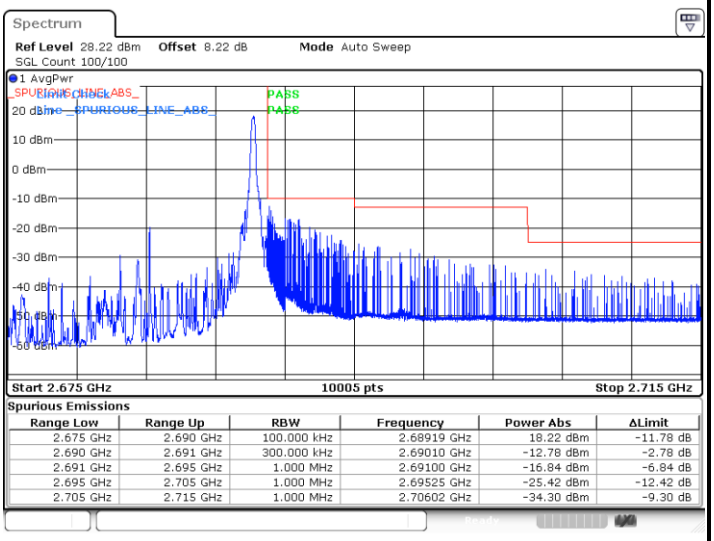


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49002 GHz	-31.59 dBm	-6.59 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49491 GHz	-21.03 dBm	-8.03 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49593 GHz	-19.94 dBm	-6.94 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49686 GHz	19.54 dBm	-10.46 dB

Date: 24.MAR.2021 13:07:13

Highest Band Edge / 1 RB

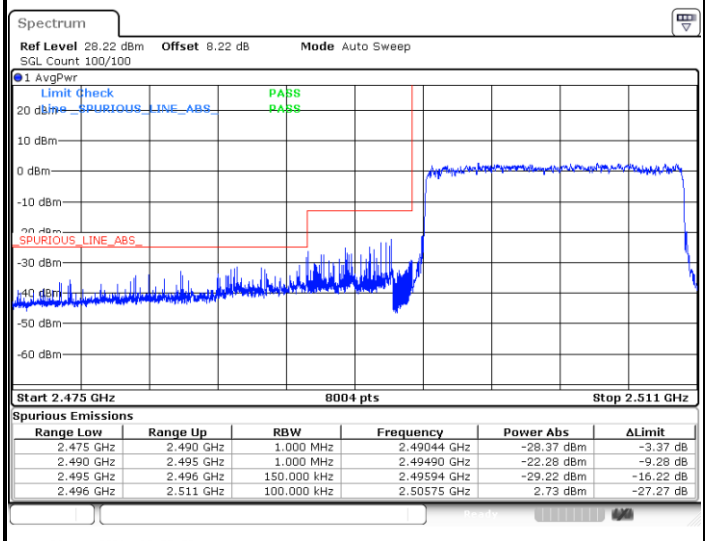


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68919 GHz	18.22 dBm	-11.78 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69010 GHz	-12.78 dBm	-2.78 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69100 GHz	-16.84 dBm	-6.84 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69525 GHz	-25.42 dBm	-12.42 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70602 GHz	-34.30 dBm	-9.30 dB

Date: 24.MAR.2021 13:10:26

Lowest Band Edge / Full RB

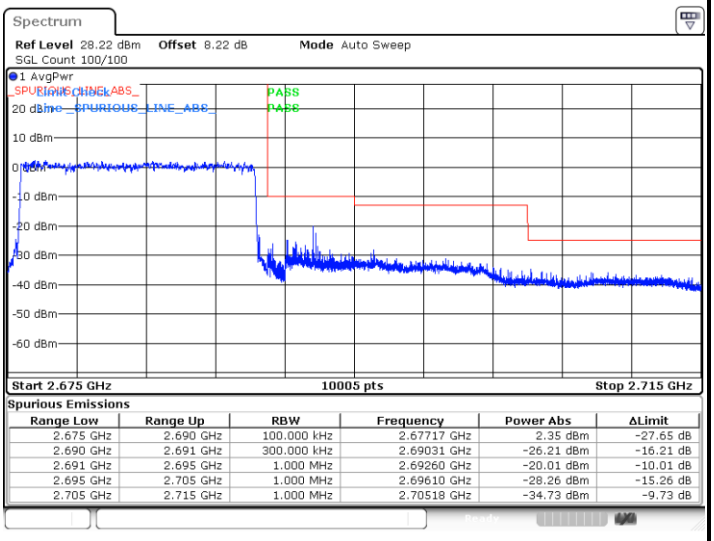


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49044 GHz	-28.37 dBm	-3.37 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49490 GHz	-22.28 dBm	-9.28 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49594 GHz	-29.22 dBm	-16.22 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50575 GHz	2.73 dBm	-27.27 dB

Date: 24.MAR.2021 12:59:50

Highest Band Edge / Full RB



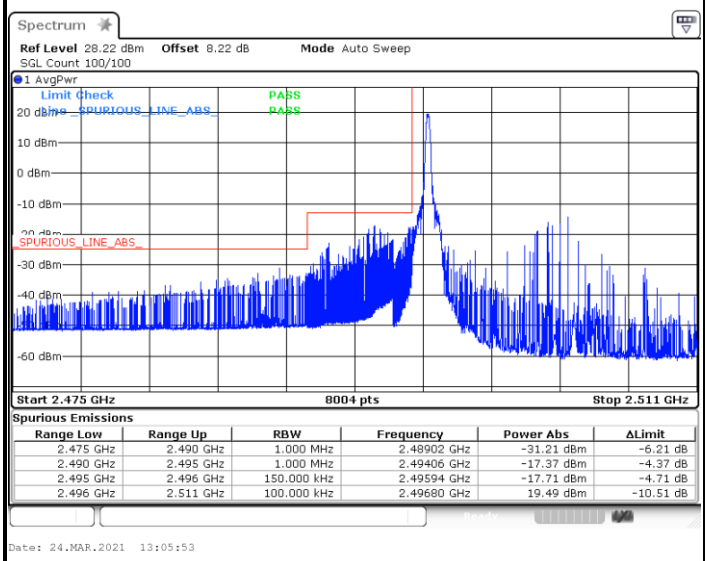
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.67717 GHz	2.35 dBm	-27.65 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69031 GHz	-26.21 dBm	-16.21 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69260 GHz	-20.01 dBm	-10.01 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69610 GHz	-28.26 dBm	-15.26 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70518 GHz	-34.73 dBm	-9.73 dB

Date: 24.MAR.2021 13:08:07

LTE Band 41 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

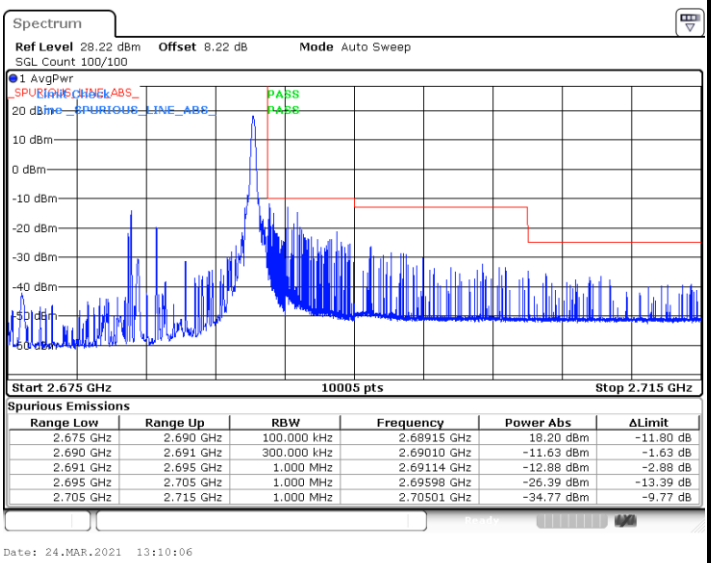


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48902 GHz	-31.21 dBm	-6.21 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49406 GHz	-17.37 dBm	-4.37 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49594 GHz	-17.71 dBm	-4.71 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49680 GHz	19.49 dBm	-10.51 dB

Date: 24.MAR.2021 13:05:53

Highest Band Edge / 1 RB

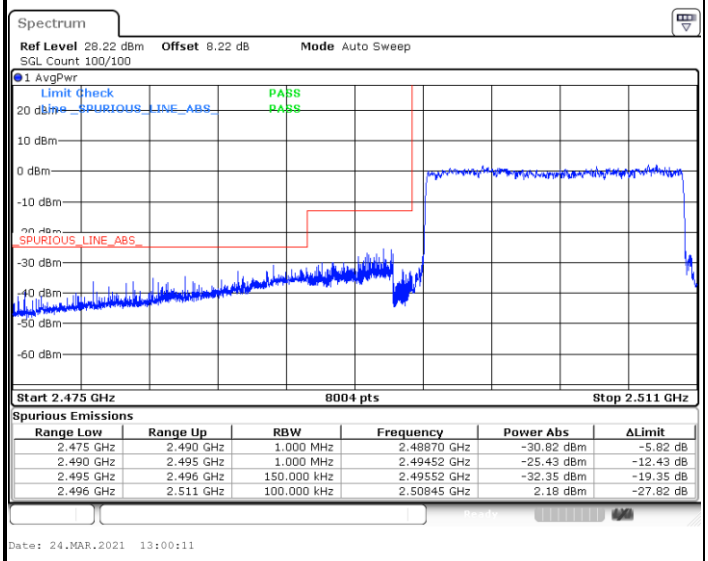


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68915 GHz	18.20 dBm	-11.80 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69010 GHz	-11.63 dBm	-1.63 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69114 GHz	-12.88 dBm	-2.88 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69598 GHz	-26.39 dBm	-13.39 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70501 GHz	-34.77 dBm	-9.77 dB

Date: 24.MAR.2021 13:10:06

Lowest Band Edge / Full RB

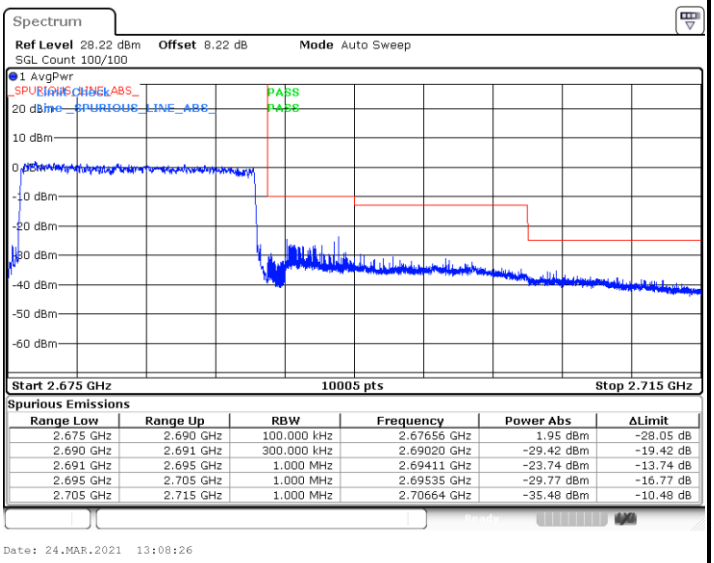


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48870 GHz	-30.82 dBm	-5.82 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49452 GHz	-25.43 dBm	-12.43 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49552 GHz	-32.35 dBm	-19.35 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50845 GHz	2.18 dBm	-27.82 dB

Date: 24.MAR.2021 13:00:11

Highest Band Edge / Full RB



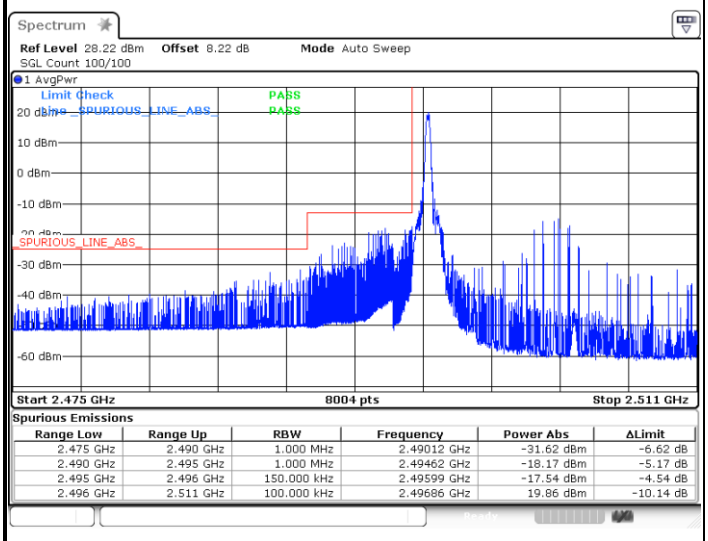
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.67656 GHz	1.95 dBm	-28.05 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69020 GHz	-29.42 dBm	-19.42 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69411 GHz	-23.74 dBm	-13.74 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69535 GHz	-29.77 dBm	-16.77 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70664 GHz	-35.48 dBm	-10.48 dB

Date: 24.MAR.2021 13:08:26

LTE Band 41 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

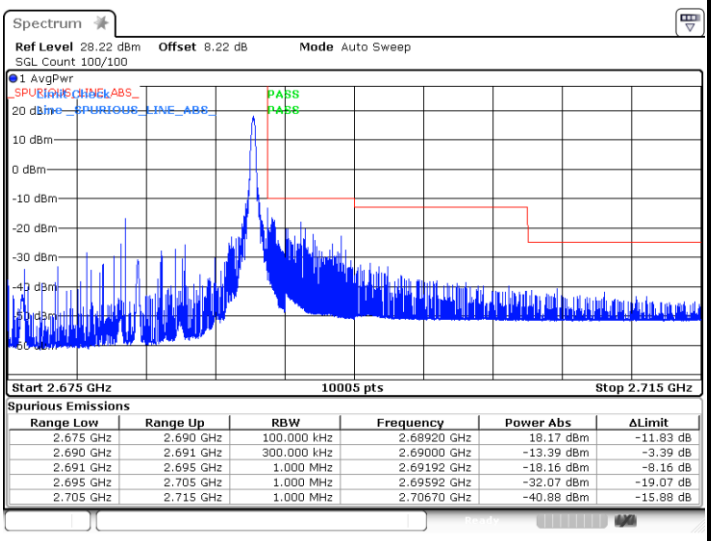


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49012 GHz	-31.62 dBm	-6.62 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49462 GHz	-18.17 dBm	-5.17 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49599 GHz	-17.54 dBm	-4.54 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49686 GHz	19.86 dBm	-10.14 dB

Date: 24.MAR.2021 13:03:04

Highest Band Edge / 1 RB

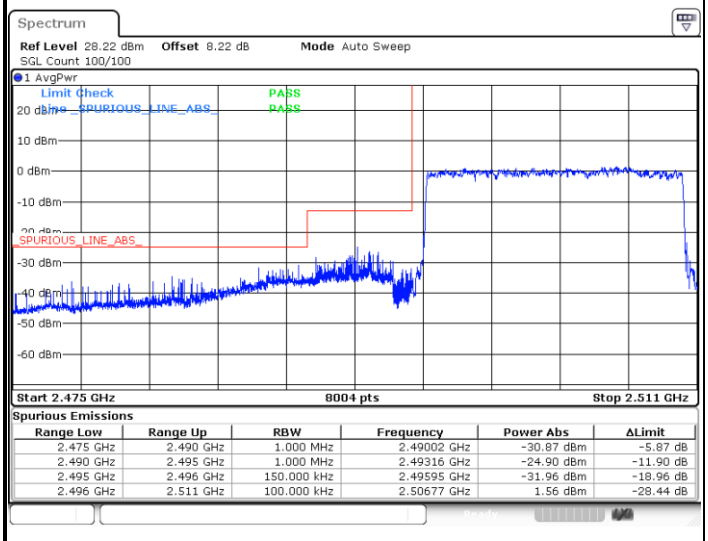


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68920 GHz	18.17 dBm	-11.83 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69000 GHz	-13.39 dBm	-3.39 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69192 GHz	-18.16 dBm	-8.16 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69592 GHz	-32.07 dBm	-19.07 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70670 GHz	-40.88 dBm	-15.88 dB

Date: 24.MAR.2021 13:09:48

Lowest Band Edge / Full RB

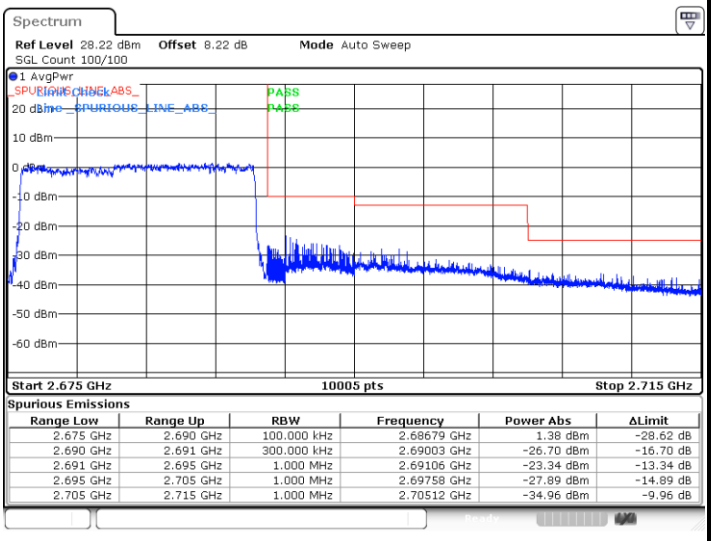


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49002 GHz	-30.87 dBm	-5.87 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49316 GHz	-24.90 dBm	-11.90 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49595 GHz	-31.96 dBm	-18.96 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50677 GHz	1.56 dBm	-28.44 dB

Date: 24.MAR.2021 13:00:38

Highest Band Edge / Full RB



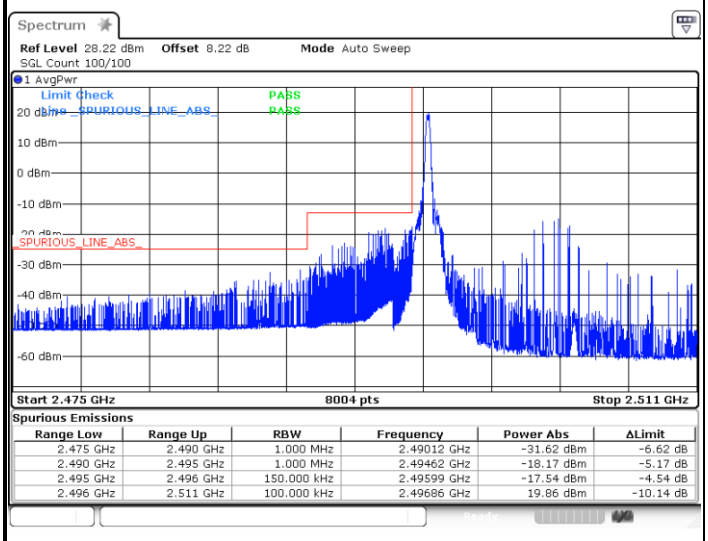
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68679 GHz	1.38 dBm	-28.62 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69003 GHz	-26.70 dBm	-16.70 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69106 GHz	-23.34 dBm	-13.34 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69758 GHz	-27.89 dBm	-14.89 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70512 GHz	-34.96 dBm	-9.96 dB

Date: 24.MAR.2021 13:08:46

LTE Band 41 / 20MHz / QPSK

Lowest Band Edge / 1 RB

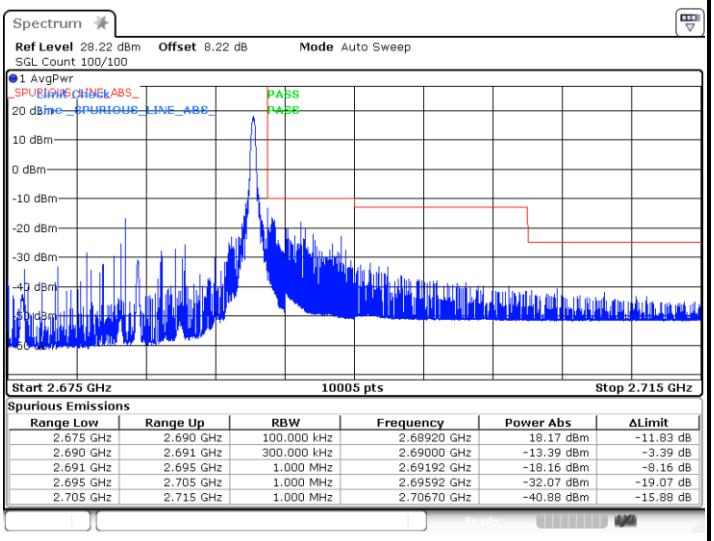


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49012 GHz	-31.62 dBm	-6.62 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49462 GHz	-18.17 dBm	-5.17 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49599 GHz	-17.54 dBm	-4.54 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49686 GHz	19.86 dBm	-10.14 dB

Date: 24.MAR.2021 13:03:04

Highest Band Edge / 1 RB

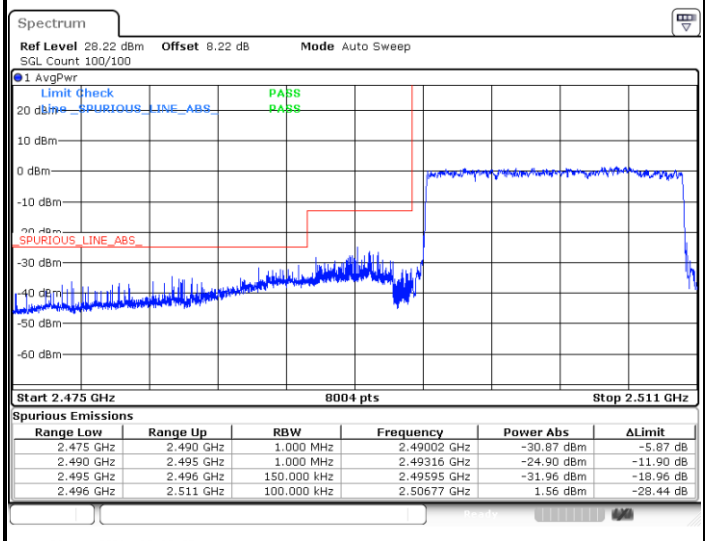


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68920 GHz	18.17 dBm	-11.83 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69000 GHz	-13.39 dBm	-3.39 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69192 GHz	-18.16 dBm	-8.16 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69592 GHz	-32.07 dBm	-19.07 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70670 GHz	-40.88 dBm	-15.88 dB

Date: 24.MAR.2021 13:09:48

Lowest Band Edge / Full RB

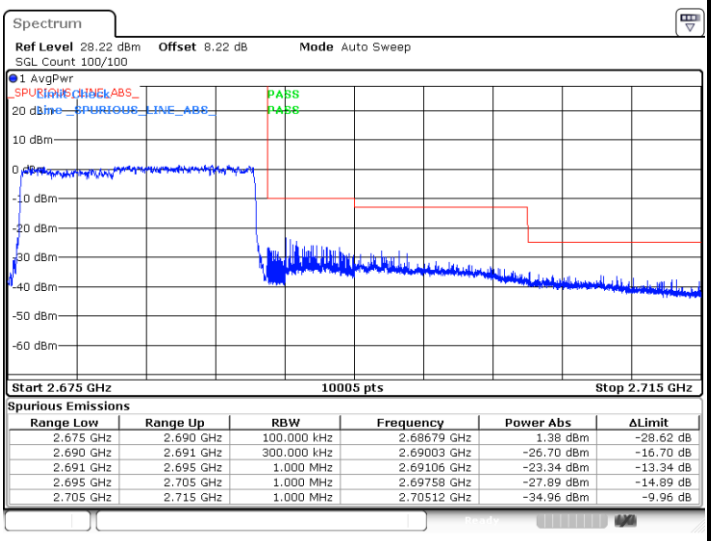


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49002 GHz	-30.87 dBm	-5.87 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49316 GHz	-24.90 dBm	-11.90 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49595 GHz	-31.96 dBm	-18.96 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50677 GHz	1.56 dBm	-28.44 dB

Date: 24.MAR.2021 13:00:38

Highest Band Edge / Full RB



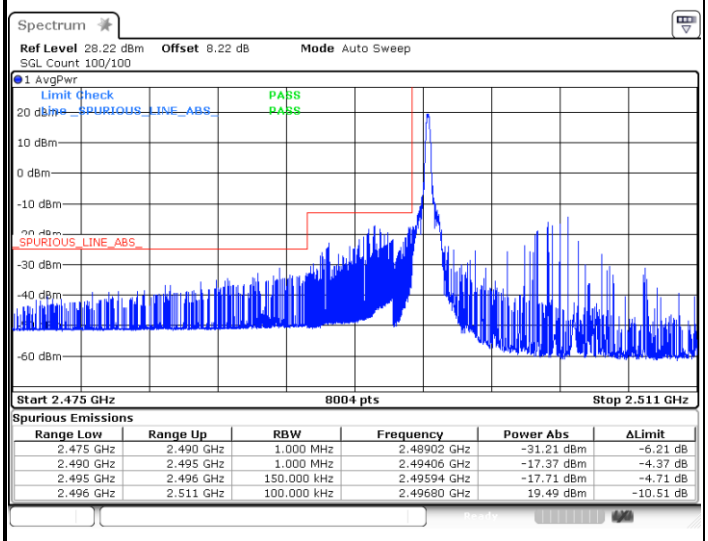
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68679 GHz	1.38 dBm	-28.62 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69003 GHz	-26.70 dBm	-16.70 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69106 GHz	-23.34 dBm	-13.34 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69758 GHz	-27.89 dBm	-14.89 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70512 GHz	-34.96 dBm	-9.96 dB

Date: 24.MAR.2021 13:08:46

LTE Band 41 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

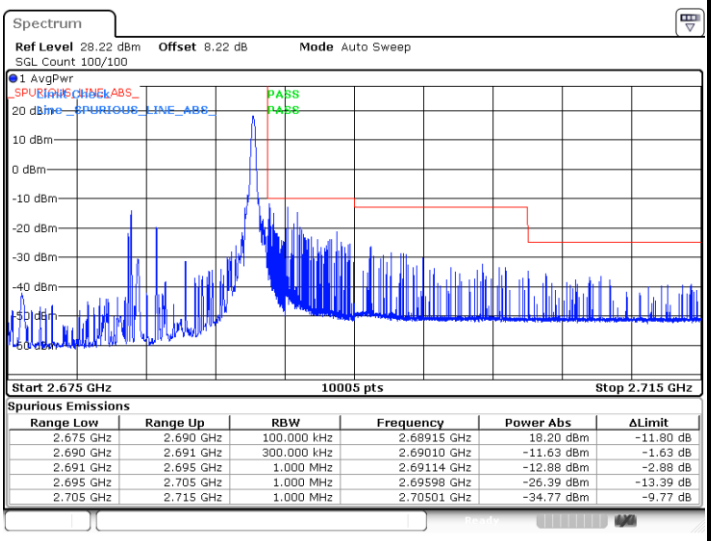


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48902 GHz	-31.21 dBm	-6.21 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49406 GHz	-17.37 dBm	-4.37 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49594 GHz	-17.71 dBm	-4.71 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49680 GHz	19.49 dBm	-10.51 dB

Date: 24.MAR.2021 13:05:53

Highest Band Edge / 1 RB

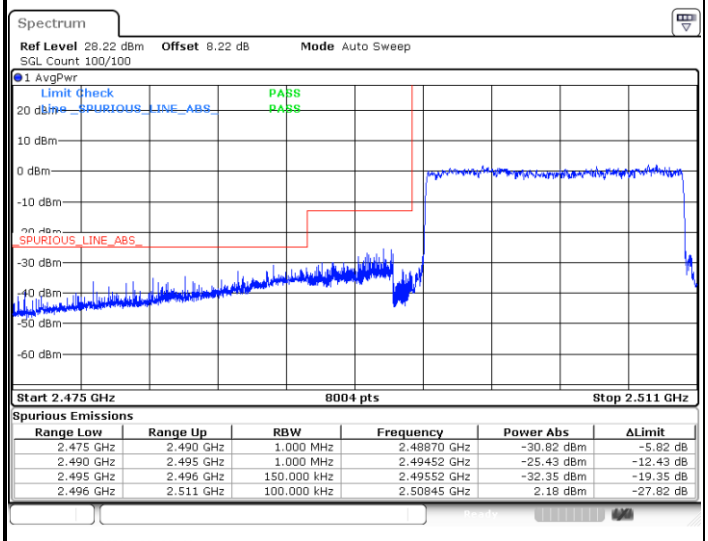


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68915 GHz	18.20 dBm	-11.80 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69010 GHz	-11.63 dBm	-1.63 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69114 GHz	-12.88 dBm	-2.88 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69598 GHz	-26.39 dBm	-13.39 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70501 GHz	-34.77 dBm	-9.77 dB

Date: 24.MAR.2021 13:10:06

Lowest Band Edge / Full RB

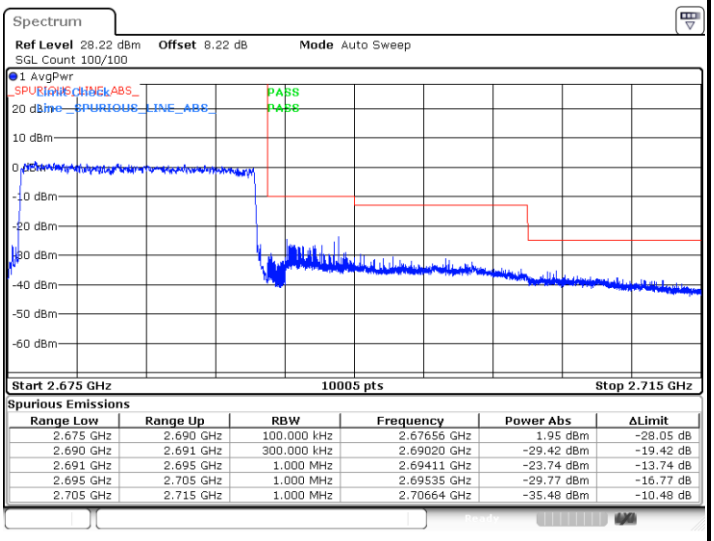


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48870 GHz	-30.82 dBm	-5.82 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49452 GHz	-25.43 dBm	-12.43 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49552 GHz	-32.35 dBm	-19.35 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50845 GHz	2.18 dBm	-27.82 dB

Date: 24.MAR.2021 13:00:11

Highest Band Edge / Full RB



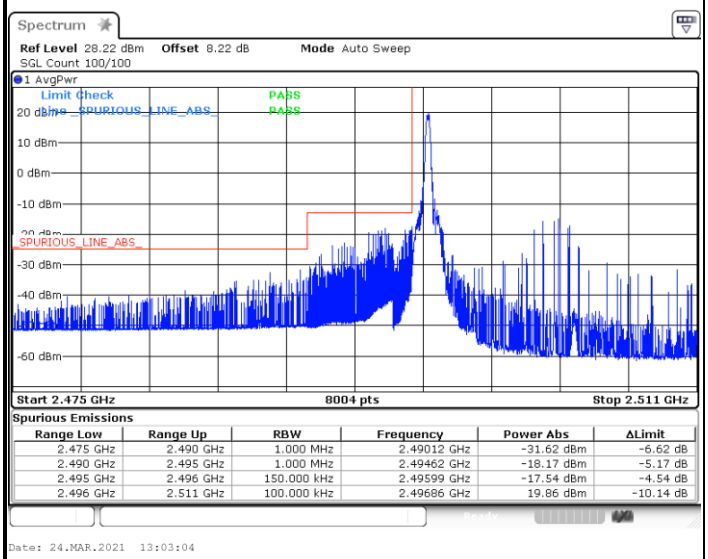
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.67656 GHz	1.95 dBm	-28.05 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69020 GHz	-29.42 dBm	-19.42 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69411 GHz	-23.74 dBm	-13.74 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69535 GHz	-29.77 dBm	-16.77 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70664 GHz	-35.48 dBm	-10.48 dB

Date: 24.MAR.2021 13:08:26

LTE Band 41 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

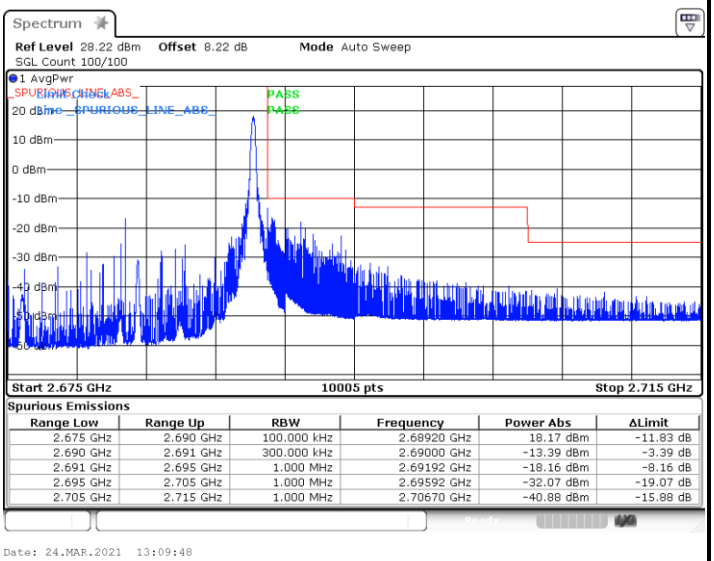


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49012 GHz	-31.62 dBm	-6.62 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49462 GHz	-18.17 dBm	-5.17 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49599 GHz	-17.54 dBm	-4.54 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.49686 GHz	19.86 dBm	-10.14 dB

Date: 24.MAR.2021 13:03:04

Highest Band Edge / 1 RB

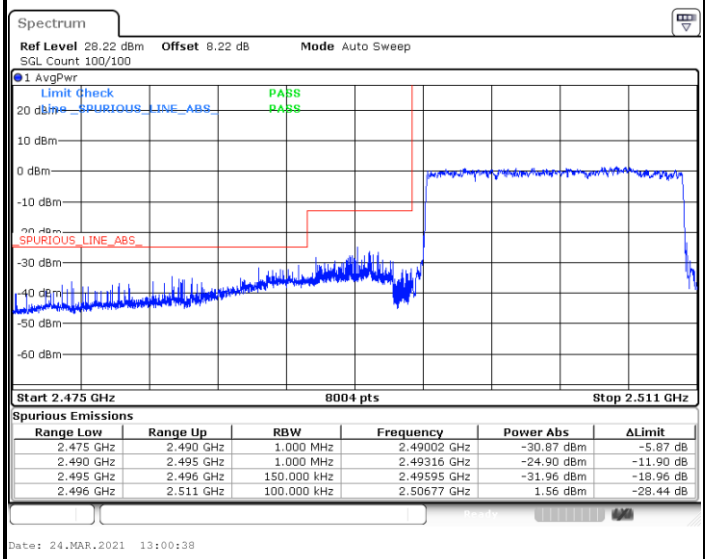


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68920 GHz	18.17 dBm	-11.83 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69000 GHz	-13.39 dBm	-3.39 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69192 GHz	-18.16 dBm	-8.16 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69592 GHz	-32.07 dBm	-19.07 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70670 GHz	-40.88 dBm	-15.88 dB

Date: 24.MAR.2021 13:09:48

Lowest Band Edge / Full RB

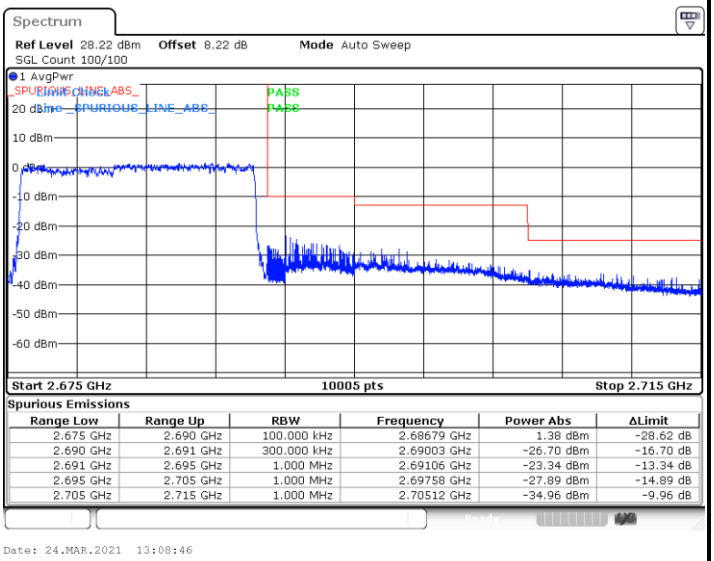


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49002 GHz	-30.87 dBm	-5.87 dB
2.490 GHz	2.495 GHz	1.000 MHz	2.49316 GHz	-24.90 dBm	-11.90 dB
2.495 GHz	2.496 GHz	150.000 kHz	2.49595 GHz	-31.96 dBm	-18.96 dB
2.496 GHz	2.511 GHz	100.000 kHz	2.50677 GHz	1.56 dBm	-28.44 dB

Date: 24.MAR.2021 13:00:38

Highest Band Edge / Full RB



Spurious Emissions

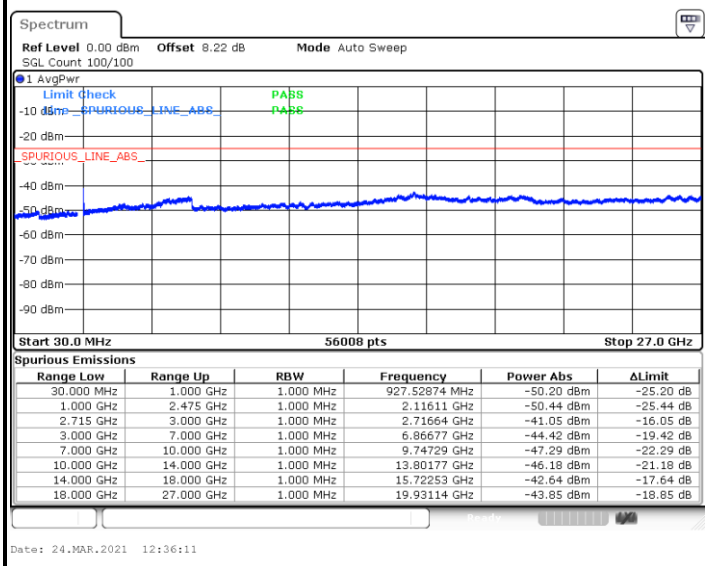
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.675 GHz	2.690 GHz	100.000 kHz	2.68679 GHz	1.38 dBm	-28.62 dB
2.690 GHz	2.691 GHz	300.000 kHz	2.69003 GHz	-26.70 dBm	-16.70 dB
2.691 GHz	2.695 GHz	1.000 MHz	2.69106 GHz	-23.34 dBm	-13.34 dB
2.695 GHz	2.705 GHz	1.000 MHz	2.69758 GHz	-27.89 dBm	-14.89 dB
2.705 GHz	2.715 GHz	1.000 MHz	2.70512 GHz	-34.96 dBm	-9.96 dB

Date: 24.MAR.2021 13:08:46

Conducted Spurious Emission

LTE Band 41 / 5MHz

Lowest Channel / QPSK

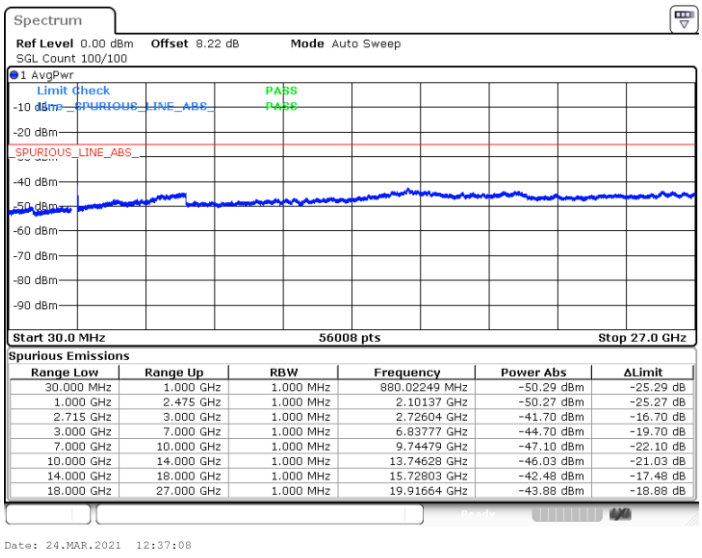


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.52874 MHz	-50.20 dBm	-25.20 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.11611 GHz	-50.44 dBm	-25.44 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71664 GHz	-41.05 dBm	-16.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86677 GHz	-44.42 dBm	-19.42 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74729 GHz	-47.29 dBm	-22.29 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.80177 GHz	-46.18 dBm	-21.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72253 GHz	-42.64 dBm	-17.64 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93114 GHz	-43.85 dBm	-18.85 dB

Date: 24.MAR.2021 12:36:11

Middle Channel / QPSK

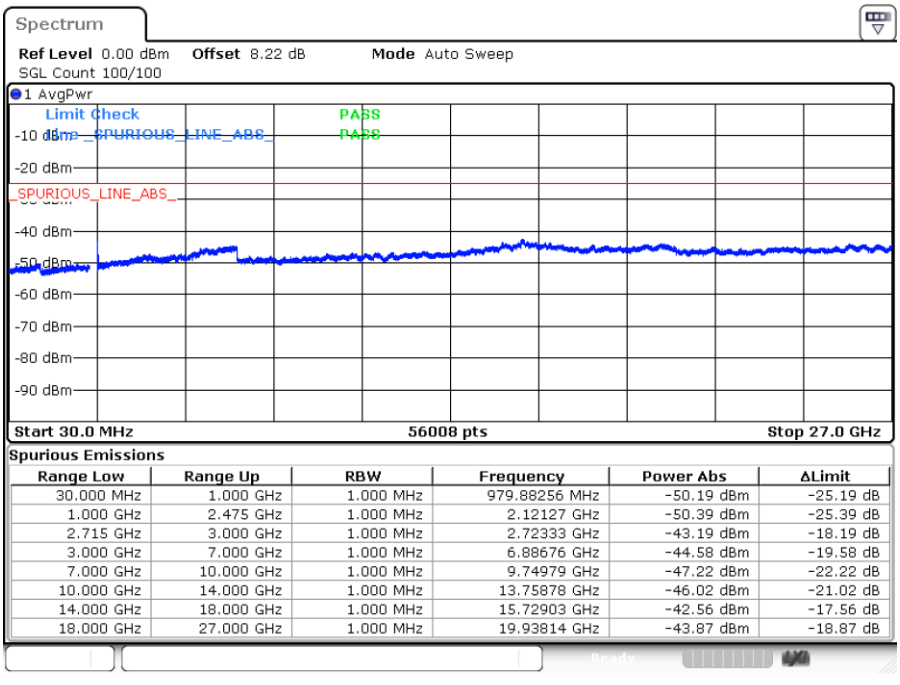


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	880.02249 MHz	-50.29 dBm	-25.29 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.10137 GHz	-50.27 dBm	-25.27 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.72604 GHz	-41.70 dBm	-16.70 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83777 GHz	-44.70 dBm	-19.70 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74479 GHz	-47.10 dBm	-22.10 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.74628 GHz	-46.03 dBm	-21.03 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72803 GHz	-42.48 dBm	-17.48 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.91664 GHz	-43.88 dBm	-18.88 dB

Date: 24.MAR.2021 12:37:08

Highest Channel / QPSK



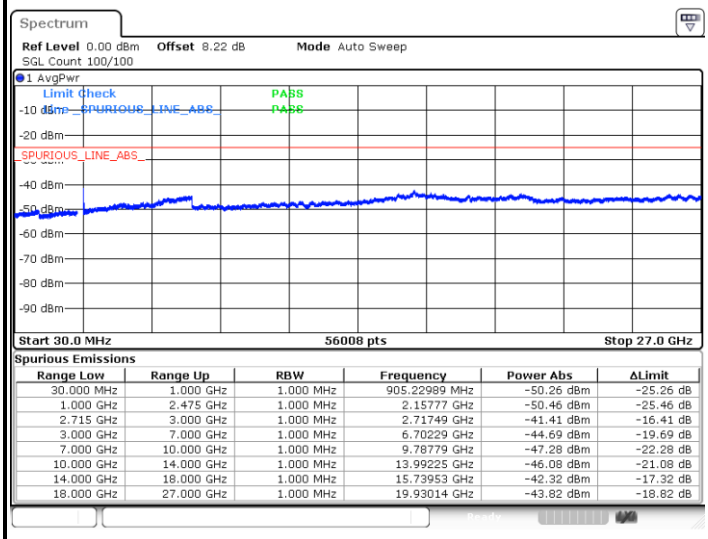
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.88256 MHz	-50.19 dBm	-25.19 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.12127 GHz	-50.39 dBm	-25.39 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.72333 GHz	-43.19 dBm	-18.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88676 GHz	-44.58 dBm	-19.58 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74979 GHz	-47.22 dBm	-22.22 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.75878 GHz	-46.02 dBm	-21.02 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72903 GHz	-42.56 dBm	-17.56 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93814 GHz	-43.87 dBm	-18.87 dB

Date: 24.MAR.2021 12:40:58

LTE Band 41 / 10MHz

Lowest Channel / QPSK

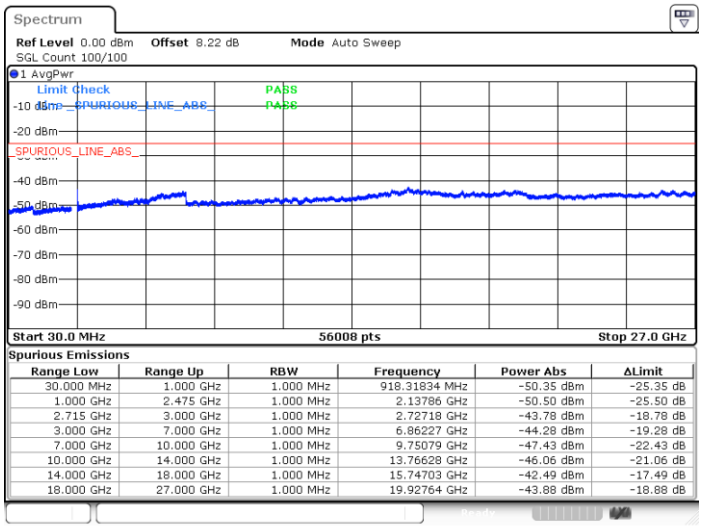


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	905.22989 MHz	-50.26 dBm	-25.26 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.15777 GHz	-50.46 dBm	-25.46 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71749 GHz	-41.41 dBm	-16.41 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.70229 GHz	-44.69 dBm	-19.69 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.78779 GHz	-47.28 dBm	-22.28 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.99225 GHz	-46.08 dBm	-21.08 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73953 GHz	-42.32 dBm	-17.32 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93014 GHz	-43.82 dBm	-18.82 dB

Date: 24.MAR.2021 12:58:50

Middle Channel / QPSK

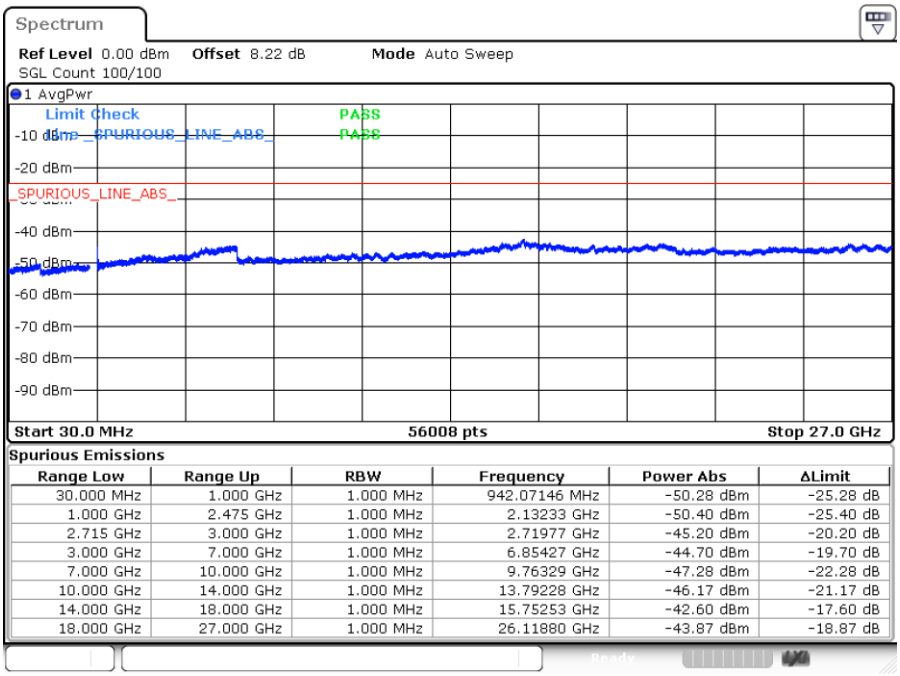


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	918.31834 MHz	-50.35 dBm	-25.35 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.13786 GHz	-50.50 dBm	-25.50 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.72718 GHz	-43.78 dBm	-18.78 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86227 GHz	-44.28 dBm	-19.28 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.75079 GHz	-47.43 dBm	-22.43 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.76628 GHz	-46.06 dBm	-21.06 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.74703 GHz	-42.49 dBm	-17.49 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92764 GHz	-43.88 dBm	-18.88 dB

Date: 24.MAR.2021 12:57:42

Highest Channel / QPSK



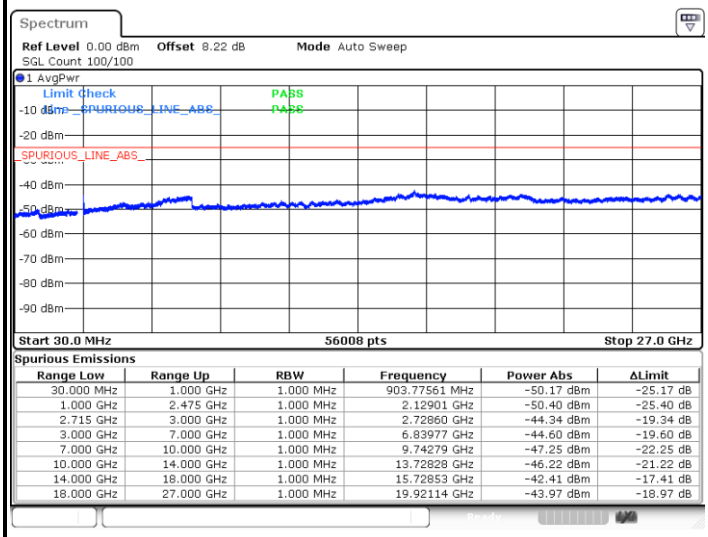
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	942.07146 MHz	-50.28 dBm	-25.28 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.13233 GHz	-50.40 dBm	-25.40 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71977 GHz	-45.20 dBm	-20.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85427 GHz	-44.70 dBm	-19.70 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.76329 GHz	-47.28 dBm	-22.28 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79228 GHz	-46.17 dBm	-21.17 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.75253 GHz	-42.60 dBm	-17.60 dB
18.000 GHz	27.000 GHz	1.000 MHz	26.11880 GHz	-43.87 dBm	-18.87 dB

Date: 24.MAR.2021 12:56:43

LTE Band 41 / 15MHz

Lowest Channel / QPSK

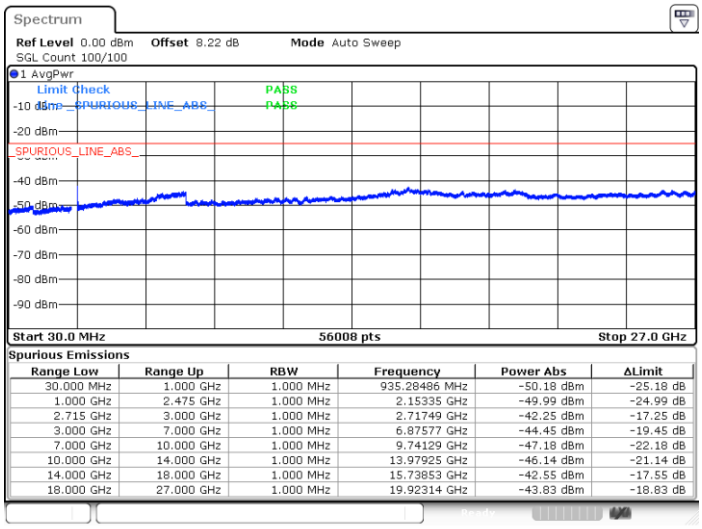


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	903.77561 MHz	-50.17 dBm	-25.17 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.12901 GHz	-50.40 dBm	-25.40 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.72860 GHz	-44.34 dBm	-19.34 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83977 GHz	-44.60 dBm	-19.60 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74279 GHz	-47.25 dBm	-22.25 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.72828 GHz	-46.22 dBm	-21.22 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72853 GHz	-42.41 dBm	-17.41 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92114 GHz	-43.97 dBm	-18.97 dB

Date: 24.MAR.2021 13:15:14

Middle Channel / QPSK

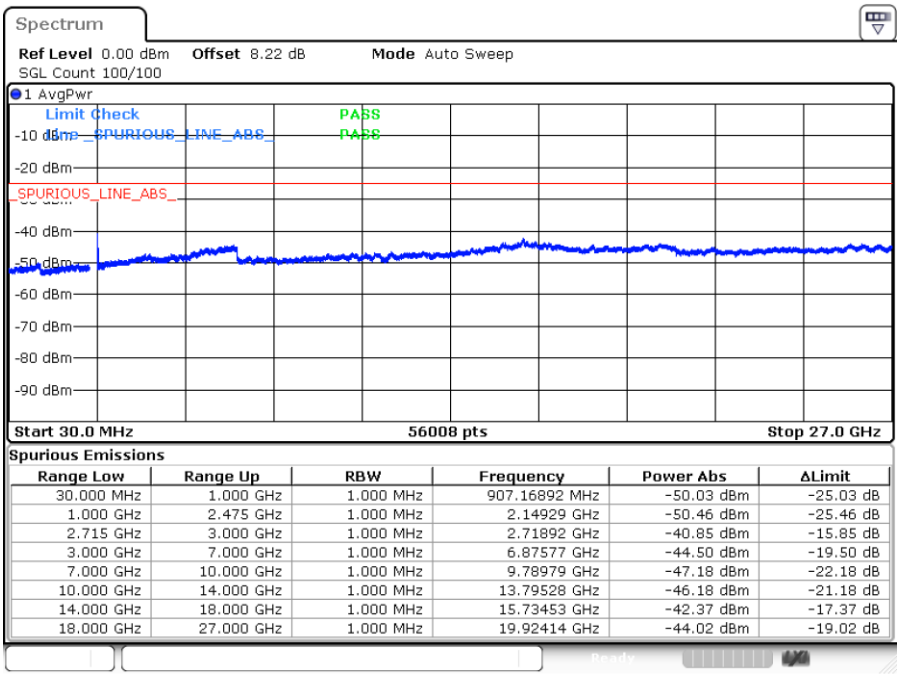


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-50.18 dBm	-25.18 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.15335 GHz	-49.99 dBm	-24.99 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71749 GHz	-42.25 dBm	-17.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87577 GHz	-44.45 dBm	-19.45 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.74129 GHz	-47.18 dBm	-22.18 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.97925 GHz	-46.14 dBm	-21.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73853 GHz	-42.55 dBm	-17.55 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92314 GHz	-43.83 dBm	-18.83 dB

Date: 24.MAR.2021 13:14:20

Highest Channel / QPSK



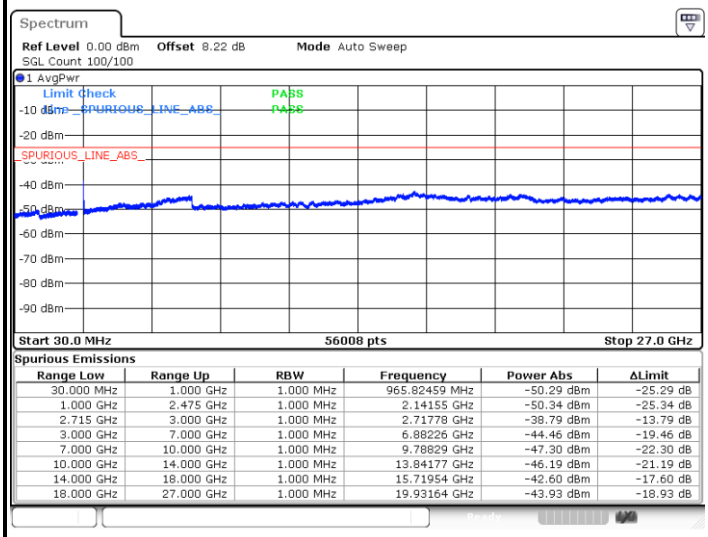
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	907.16892 MHz	-50.03 dBm	-25.03 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.14929 GHz	-50.46 dBm	-25.46 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71892 GHz	-40.85 dBm	-15.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87577 GHz	-44.50 dBm	-19.50 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.78979 GHz	-47.18 dBm	-22.18 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.79528 GHz	-46.18 dBm	-21.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73453 GHz	-42.37 dBm	-17.37 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92414 GHz	-44.02 dBm	-19.02 dB

Date: 24.MAR.2021 13:11:33

LTE Band 41 / 20MHz

Lowest Channel / QPSK

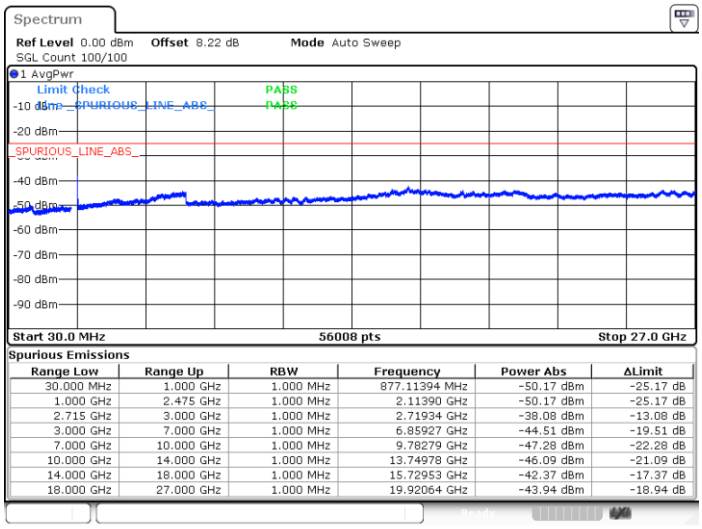


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-50.29 dBm	-25.29 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.14155 GHz	-50.34 dBm	-25.34 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71778 GHz	-38.79 dBm	-13.79 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88226 GHz	-44.46 dBm	-19.46 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.78829 GHz	-47.30 dBm	-22.30 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.84177 GHz	-46.19 dBm	-21.19 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.71954 GHz	-42.60 dBm	-17.60 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.93164 GHz	-43.93 dBm	-18.93 dB

Date: 24.MAR.2021 13:30:28

Middle Channel / QPSK

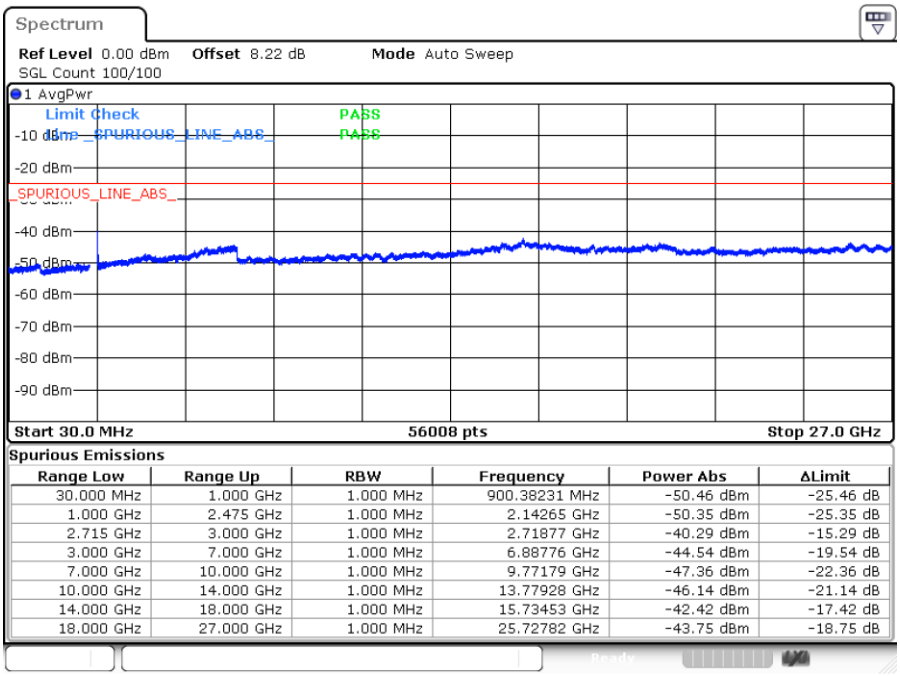


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	877.11394 MHz	-50.17 dBm	-25.17 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.11390 GHz	-50.17 dBm	-25.17 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71934 GHz	-38.08 dBm	-13.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85927 GHz	-44.51 dBm	-19.51 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.78279 GHz	-47.28 dBm	-22.28 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.74978 GHz	-46.09 dBm	-21.09 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.72953 GHz	-42.37 dBm	-17.37 dB
18.000 GHz	27.000 GHz	1.000 MHz	19.92064 GHz	-43.94 dBm	-18.94 dB

Date: 24.MAR.2021 13:29:34

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	900.38231 MHz	-50.46 dBm	-25.46 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.14265 GHz	-50.35 dBm	-25.35 dB
2.715 GHz	3.000 GHz	1.000 MHz	2.71877 GHz	-40.29 dBm	-15.29 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88776 GHz	-44.54 dBm	-19.54 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.77179 GHz	-47.36 dBm	-22.36 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.77928 GHz	-46.14 dBm	-21.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.73453 GHz	-42.42 dBm	-17.42 dB
18.000 GHz	27.000 GHz	1.000 MHz	25.72782 GHz	-43.75 dBm	-18.75 dB

Date: 24.MAR.2021 13:28:40

Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0010	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0015	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0009	
20	Normal Voltage	0.0014	
20	Battery End Point	0.0013	

Note:

1. Normal Voltage =3.86 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.3V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 41 / 20MHz / QPSK								
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	4996	-61.17	-25	-36.17	-71.38	3.03	13.24	H
	7492	-33.02	-25	-8.02	-42.47	3.56	13.01	H
	9990	-60.54	-25	-35.54	-70.06	3.92	13.44	H
	12490	-53.59	-25	-28.59	-62.63	4.39	13.43	H
	4996	-63.20	-25	-38.20	-73.41	3.03	13.24	V
	7492	-34.52	-25	-9.52	-43.97	3.56	13.01	V
	9990	-60.84	-25	-35.84	-70.36	3.92	13.44	V
	12490	-54.82	-25	-29.82	-63.86	4.39	13.43	V
Middle	5168	-59.09	-25	-34.09	-69.30	3.03	13.24	H
	7752	-32.81	-25	-7.81	-42.26	3.56	13.01	H
	10340	-58.62	-25	-33.62	-68.14	3.92	13.44	H
	12920	-49.75	-25	-24.75	-58.79	4.39	13.43	H
	5168	-63.25	-25	-38.25	-73.46	3.03	13.24	V
	7752	-35.24	-25	-10.24	-44.69	3.56	13.01	V
	10340	-58.83	-25	-33.83	-68.35	3.92	13.44	V
	12920	-52.29	-25	-27.29	-61.33	4.39	13.43	V
Highest	5340	-59.29	-25	-34.29	-69.50	3.03	13.24	H
	8015	-50.43	-25	-25.43	-59.88	3.56	13.01	H
	10683	-59.22	-25	-34.22	-68.74	3.92	13.44	H
	13356	-53.09	-25	-28.09	-62.13	4.39	13.43	H
	5340	-62.62	-25	-37.62	-72.83	3.03	13.24	V
	8015	-53.37	-25	-28.37	-62.82	3.56	13.01	V
	10683	-59.04	-25	-34.04	-68.56	3.92	13.44	V
	13356	-50.95	-25	-25.95	-59.99	4.39	13.43	V

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