FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	POCO
MODEL NAME	:	M2012K11AG
FCC ID	:	2AFZZK11AG
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(H)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 19, 2020 and completely tested on Jan. 06, 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

James Huang

Approved by: James Huang / Manager

ACCREDITED
Cert #5145.02

Sporton International (Kunshan) Inc.
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TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **6**

1.1 Applicant 6
1.2 Manufacturer 6
1.3 Product Feature of Equipment Under Test 6
1.4 Product Specification of Equipment Under Test 7
1.5 Modification of EUT 7
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator 8
1.7 Testing Location 9
1.8 Test Software 10
1.9 Applicable Standards 10

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **11**

2.1 Test Mode 11
2.2 Connection Diagram of Test System 13
2.3 Support Unit used in test configuration and system 13
2.4 Measurement Results Explanation Example 13
2.5 Frequency List of Low/Middle/High Channels 14

3 CONDUCTED TEST ITEMS **17**

3.1 Measuring Instruments 17
3.2 Test Setup 17
3.3 Test Result of Conducted Test 17
3.4 Conducted Output Power and ERP/EIRP 18
3.5 Peak-to-Average Ratio 19
3.6 Occupied Bandwidth 20
3.7 Conducted Band Edge 21
3.8 Conducted Spurious Emission 23
3.9 Frequency Stability 24

4 RADIATED TEST ITEMS **25**

4.1 Measuring Instruments 25
4.2 Test Setup 25
4.3 Test Result of Radiated Test 25
4.4 Radiated Spurious Emission 26

5 LIST OF MEASURING EQUIPMENT **27**

6 UNCERTAINTY OF EVALUATION **28**

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG0D1907B	Rev. 01	Initial issue of report	Feb. 08, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 66)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		

Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 66)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 35.44 dB at 1664.000 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

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	M2012K11AG
FCC ID	2AFZZK11AG
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR / EDR / LE NFC / GNSS
IMEI Code	Conducted: 864856050017581/864856050017599 Radiation: 864856050007400/864856050007418
HW Version	P2
SW Version	MIUI12
EUT Stage	Identical Prototype

Note: There are two types of EUT, the differences are memory capacity and battery. According to the difference, the sample 1 to perform full tests.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 66 : 2110 MHz~ 2180 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**Ant10:** LTE Band 5 : 24.68 dBm **Ant2:** LTE Band 12 : 24.49 dBm LTE Band 17 : 24.46 dBm **Ant4:** LTE Band 2 : 24.25 dBm LTE Band 4 : 24.45 dBm LTE Band 66 : 24.61 dBm
Antenna Gain	**Ant10:** LTE Band 5 : -4.83 dBi **Ant2:** LTE Band 12 : -7.29 dBi LTE Band 17 : -7.29 dBi **Ant4:** LTE Band 2 : -2.31 dBi LTE Band 4 : -2.79 dBi LTE Band 66 : -2.79 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink only)

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

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 2		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	1860.0 ~ 1900.0	18M5G7D	0.0018	0.1563	18M4W7D	-	0.1343

LTE Band 5		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)
10	829.0 ~ 844.0	9M03G7D	0.0062	0.0589	8M97W7D	-	0.0511

LTE Band 4		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	1720.0 ~ 1745.0	18M3G7D	0.0024	0.1521	18M4W7D	-	0.1262

LTE Band 66		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	1720.0 ~ 1770.0	18M3G7D	0.0024	0.1521	18M4W7D	-	0.1262

LTE Band 12		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)
10	704.0 ~ 711.0	9M03G7D	0.0105	0.0320	9M05W7D	-	0.0274

LTE Band 17		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)
10	709.0 ~ 711.0	9M03G7D	0.0105	0.0320	9M05W7D	-	0.0274

Note:

1. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
2. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
3. Based on engineering evaluation, only the maximum bandwidth and the worst modulation test results are shown in the report.

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, 22(H), 24(E), 27(L), 27(H)
- 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.

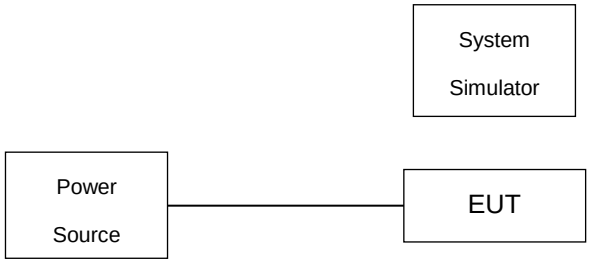
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

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	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v			v		v	
	5				v	-	-	v	v	v			v		v	
	12				v	-	-	v	v	v			v		v	
	66						v	v	v	v			v		v	
26dB and 99% Bandwidth	2						v	v	v				v		v	
	5				v	-	-	v	v				v		v	
	12				v	-	-	v	v				v		v	
	66						v	v	v				v		v	
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v		v	v		v

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
Conducted Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	12	v	v	v	v	-	-	v			v			v	v	v
	66	v	v	v	v	v	v	v			v			v	v	v
Frequency Stability	2						v	v					v		v	
	5				v	-	-	v					v		v	
	12				v	-	-	v					v		v	
	66						v	v					v		v	

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
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	5	Worst Case													v	
	12	Worst Case													v	
	66	Worst Case													v	
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4. 5. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17. 6. 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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

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 4.60 dB.

Example :

Offset(dB) = RF cable loss(dB)

= 4.60 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 66 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

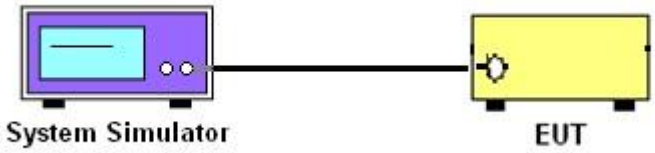
3 Conducted Test Items

3.1 Measuring Instruments

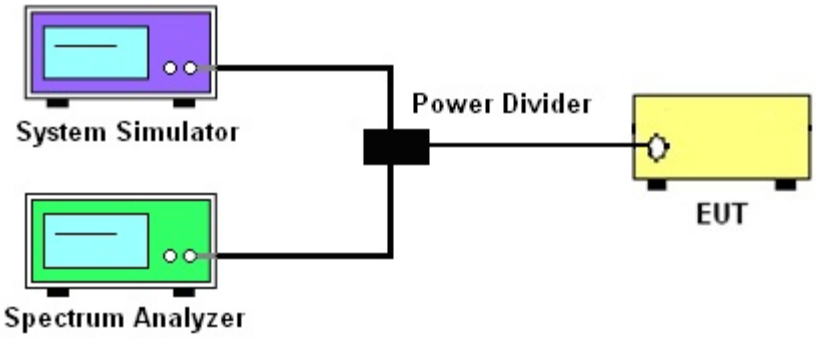
See list of measuring instruments of this test report.

3.2 Test Setup

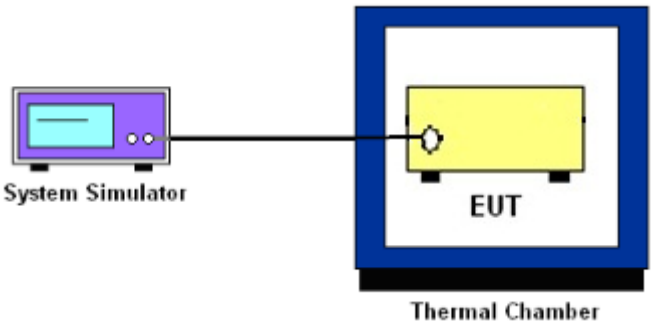
3.2.1 Conducted Output Power



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 ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/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 ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12 and Band 17.

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4 and Band 66.

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

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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.

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.

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

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.

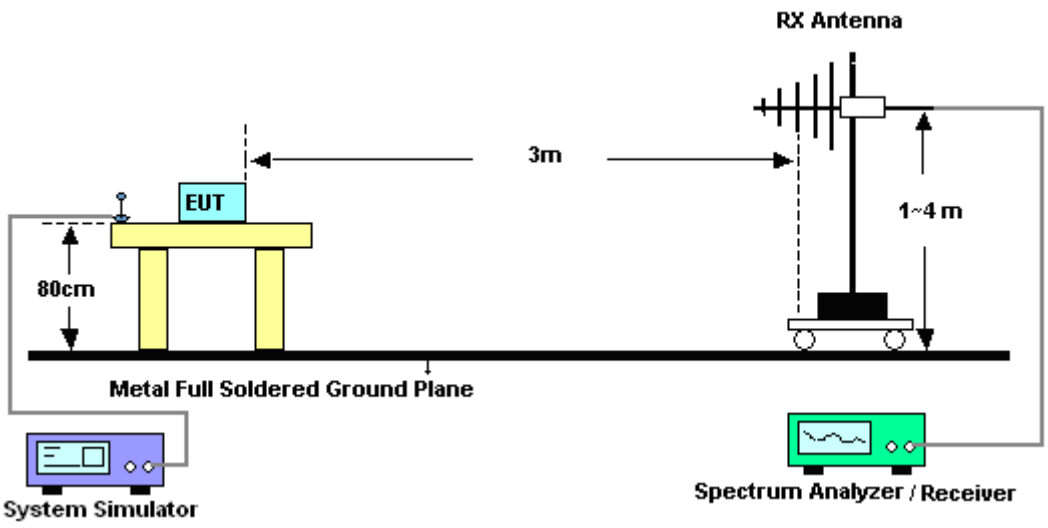
4 Radiated Test Items

4.1 Measuring Instruments

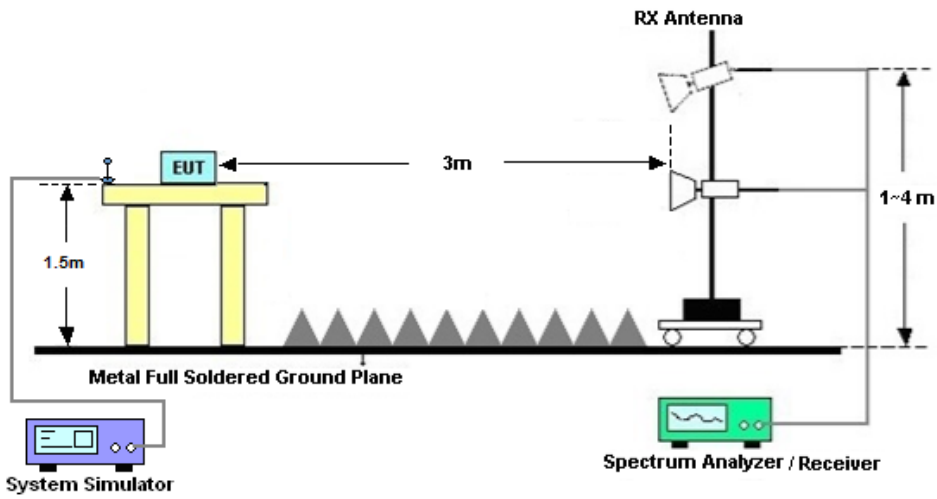
See list of measuring instruments of this test report.

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.

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.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2020	Dec. 31, 2020~ Jan. 03, 2021	Nov. 01, 2021	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 03, 2020	Dec. 31, 2020~ Jan. 03, 2021	Jul. 02, 2021	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 15, 2020	Jan. 06, 2021	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Jun. 08, 2020	Jan. 06, 2021	Jun. 07, 2021	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	218642	1GHz~18GHz	Dec. 20, 2020	Jan. 06, 2021	Dec. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Jan. 06, 2021	Jan. 06, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Jan. 06, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 06, 2021	Jan. 06, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jan. 06, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 14, 2020	Jan. 06, 2021	Oct. 13, 2021	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 06, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 06, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 06, 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)

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	24.19	**24.25**	24.14
20	QPSK	1	49	24.05	24.06	24.03
20	QPSK	1	99	23.91	23.99	23.84
20	QPSK	50	0	23.20	23.33	23.13
20	QPSK	50	24	23.28	23.30	23.15
20	QPSK	50	50	23.24	23.07	23.18
20	QPSK	100	0	23.26	23.27	23.14
20	16QAM	1	0	23.59	23.51	23.45
20	64QAM	1	0	22.30	23.46	22.28
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	24.20	24.17	24.09
15	16QAM	1	0	23.49	23.52	23.40
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	24.16	24.10	24.08
10	16QAM	1	0	23.58	23.35	23.41
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	24.24	23.85	23.77
5	16QAM	1	0	23.55	23.37	23.31
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	24.21	24.05	23.78

3	16QAM	1	0	23.51	23.24	23.04
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	24.05	24.05	24.15
1.4	16QAM	1	0	23.47	23.26	23.35

LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	24.40	**24.45**	24.33
20	QPSK	1	49	24.25	24.19	24.11
20	QPSK	1	99	24.19	24.15	24.05
20	QPSK	50	0	23.53	23.55	23.40
20	QPSK	50	24	23.52	23.48	23.29
20	QPSK	50	50	23.42	23.34	23.26
20	QPSK	100	0	23.44	23.51	23.36
20	16QAM	1	0	23.31	23.80	23.63
20	64QAM	1	0	23.44	22.74	22.43
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	24.25	24.44	24.39
15	16QAM	1	0	23.31	23.79	23.55
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	24.35	24.28	24.18
10	16QAM	1	0	23.71	23.61	23.52
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	24.41	24.32	24.24
5	16QAM	1	0	23.71	23.64	23.54
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	24.39	24.34	24.26
3	16QAM	1	0	23.68	23.70	23.59
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	24.29	24.26	24.15
1.4	16QAM	1	0	23.61	23.60	23.46

LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	24.60	**24.68**	24.65
10	QPSK	1	25	24.51	24.54	24.53
10	QPSK	1	49	24.57	24.49	24.49
10	QPSK	25	0	23.66	23.79	23.66
10	QPSK	25	12	23.76	23.77	23.67
10	QPSK	25	25	23.71	23.71	23.71
10	QPSK	50	0	23.75	23.76	23.66
10	16QAM	1	0	24.00	24.06	24.00
10	64QAM	1	0	23.04	23.04	23.04
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	24.67	24.64	24.62
5	16QAM	1	0	24.04	23.98	23.98
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	24.65	24.59	24.57
3	16QAM	1	0	23.97	24.05	23.98
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	24.54	24.57	24.53
1.4	16QAM	1	0	23.92	23.94	23.90

LTE Band 12:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	24.36	**24.49**	24.35
10	QPSK	1	25	24.31	24.32	24.35
10	QPSK	1	49	24.45	24.45	24.40
10	QPSK	25	0	23.49	23.57	23.50
10	QPSK	25	12	23.50	23.50	23.51
10	QPSK	25	25	23.54	23.56	23.57
10	QPSK	50	0	23.51	23.58	23.50
10	16QAM	1	0	23.82	23.75	23.77
10	64QAM	1	0	22.87	22.78	22.82
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	24.42	24.42	24.41
5	16QAM	1	0	23.76	23.71	23.65
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	24.47	24.40	24.46
3	16QAM	1	0	23.68	23.66	23.80
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	24.37	24.38	24.34
1.4	16QAM	1	0	23.72	23.71	23.62

LTE Band 17:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	24.32	**24.46**	24.35
10	QPSK	1	25	24.37	24.31	24.35
10	QPSK	1	49	24.40	24.38	24.41
10	QPSK	25	0	23.39	23.56	23.40
10	QPSK	25	12	23.53	23.52	23.45
10	QPSK	25	25	23.54	23.52	23.50
10	QPSK	50	0	23.45	23.53	23.48
10	16QAM	1	0	23.79	23.80	23.74
10	64QAM	1	0	22.87	22.87	22.88
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	24.39	24.45	24.44
5	16QAM	1	0	23.78	23.80	23.71

LTE Band 66:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. Freq.	Power Middle Ch. Freq.	Power High Ch. Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	24.28	**24.61**	24.40
20	QPSK	1	49	24.42	24.36	24.27
20	QPSK	1	99	24.37	24.32	24.02
20	QPSK	50	0	23.59	23.65	23.61
20	QPSK	50	24	23.56	23.53	23.37
20	QPSK	50	50	23.48	23.44	23.25
20	QPSK	100	0	23.50	23.56	23.45
20	16QAM	1	0	23.80	23.42	23.69
20	64QAM	1	0	23.22	22.34	22.45
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	24.32	24.08	24.41
15	16QAM	1	0	23.67	23.35	23.79
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	24.15	23.87	24.27
10	16QAM	1	0	23.66	23.26	23.46
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	24.24	24.37	24.03
5	16QAM	1	0	23.51	23.05	23.30
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	24.36	24.12	24.04
3	16QAM	1	0	23.67	23.21	23.38
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	24.26	24.19	24.34
1.4	16QAM	1	0	23.47	23.18	23.33

ERP/EIRP

LTE Band 2 (GT - LC = -2.31 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	24.05	24.05	24.15	24.21	24.05	23.78	24.24	23.85	23.77
Conducted Power (Watts)	0.2541	0.2541	0.2600	0.2636	0.2541	0.2388	0.2655	0.2427	0.2382
EIRP(dBm)	21.74	21.74	21.84	21.90	21.74	21.47	21.93	21.54	21.46
EIRP(Watts)	0.1493	0.1493	0.1528	0.1549	0.1493	0.1403	0.1560	0.1426	0.1400

LTE Band 2 (GT - LC = -2.31 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	24.16	24.10	24.08	24.20	24.17	24.09	24.19	24.25	24.14
Conducted Power (Watts)	0.2606	0.2570	0.2559	0.2630	0.2612	0.2564	0.2624	0.2661	0.2594
EIRP(dBm)	21.85	21.79	21.77	21.89	21.86	21.78	21.88	21.94	21.83
EIRP(Watts)	0.1531	0.1510	0.1503	0.1545	0.1535	0.1507	0.1542	0.1563	0.1524

LTE Band 2 (GT - LC = -2.31 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	23.47	23.26	23.35	23.51	23.24	23.04	23.55	23.37	23.31
Conducted Power (Watts)	0.2223	0.2118	0.2163	0.2244	0.2109	0.2014	0.2265	0.2173	0.2143
EIRP(dBm)	21.16	20.95	21.04	21.20	20.93	20.73	21.24	21.06	21.00
EIRP(Watts)	0.1306	0.1245	0.1271	0.1318	0.1239	0.1183	0.1330	0.1276	0.1259

LTE Band 2 (GT - LC = -2.31 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	23.58	23.35	23.41	23.49	23.52	23.40	23.59	23.51	23.45
Conducted Power (Watts)	0.2280	0.2163	0.2193	0.2234	0.2249	0.2188	0.2286	0.2244	0.2213
EIRP(dBm)	21.27	21.04	21.10	21.18	21.21	21.09	21.28	21.20	21.14
EIRP(Watts)	0.1340	0.1271	0.1288	0.1312	0.1321	0.1285	0.1343	0.1318	0.1300

LTE Band 2 (GT - LC = -2.31 dB) 64QAM			
Bandwidth	**20M**		
Channel	**18650**	**18900**	**19100**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**1860**	**1880**	**1900**
Conducted Power (dBm)	22.30	23.46	22.28
Conducted Power (Watts)	0.1698	0.2218	0.1690
ERP(dBm)	19.99	21.15	19.97
ERP(Watts)	0.0998	0.1303	0.0993

LTE Band 5 (GT - LC = -4.83 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	24.54	24.57	24.53	24.65	24.59	24.57	24.67	24.64	24.62
Conducted Power (Watts)	0.2844	0.2864	0.2838	0.2917	0.2877	0.2864	0.2931	0.2911	0.2897
ERP(dBm)	17.56	17.59	17.55	17.67	17.61	17.59	17.69	17.66	17.64
ERP(Watts)	0.0570	0.0574	0.0569	0.0585	0.0577	0.0574	0.0587	0.0583	0.0581

LTE Band 5 (GT - LC = -4.83 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	24.60	24.68	24.65
Conducted Power (Watts)	0.2884	0.2938	0.2917
ERP(dBm)	17.62	17.70	17.67
ERP(Watts)	0.0578	0.0589	0.0585

LTE Band 5 (GT - LC = -4.83 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	23.92	23.94	23.90	23.97	24.05	23.98	24.04	23.98	23.98
Conducted Power (Watts)	0.2466	0.2477	0.2455	0.2495	0.2541	0.2500	0.2535	0.2500	0.2500
ERP(dBm)	16.94	16.96	16.92	16.99	17.07	17.00	17.06	17.00	17.00
ERP(Watts)	0.0494	0.0497	0.0492	0.0500	0.0509	0.0501	0.0508	0.0501	0.0501

LTE Band 5 (GT - LC = -4.83 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	24.00	24.06	24.00
Conducted Power (Watts)	0.2512	0.2547	0.2512
ERP(dBm)	17.02	17.08	17.02
ERP(Watts)	0.0504	0.0511	0.0504

LTE Band 5 (GT - LC = -4.83 dB) 64QAM			
Bandwidth	**10M**		
Channel	**20450**	**20525**	**20600**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**829**	**836.5**	**844**
Conducted Power (dBm)	23.04	23.04	23.04
Conducted Power (Watts)	0.2014	0.2014	0.2014
ERP(dBm)	16.06	16.06	16.06
ERP(Watts)	0.0404	0.0404	0.0404

LTE Band 12 (GT - LC = -7.29 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	24.37	24.38	24.34	24.47	24.40	24.46	24.42	24.42	24.41
Conducted Power (Watts)	0.2735	0.2742	0.2716	0.2799	0.2754	0.2793	0.2767	0.2767	0.2761
ERP(dBm)	14.93	14.94	14.90	15.03	14.96	15.02	14.98	14.98	14.97
ERP(Watts)	0.0311	0.0312	0.0309	0.0318	0.0313	0.0318	0.0315	0.0315	0.0314

LTE Band 12 (GT - LC = -7.29 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	24.36	24.49	24.35
Conducted Power (Watts)	0.2729	0.2812	0.2723
ERP(dBm)	14.92	15.05	14.91
ERP(Watts)	0.0310	0.0320	0.0310

LTE Band 12 (GT - LC = -7.29 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	23.72	23.71	23.62	23.68	23.66	23.80	23.76	23.71	23.65
Conducted Power (Watts)	0.2355	0.2350	0.2301	0.2333	0.2323	0.2399	0.2377	0.2350	0.2317
ERP(dBm)	14.28	14.27	14.18	14.24	14.22	14.36	14.32	14.27	14.21
ERP(Watts)	0.0268	0.0267	0.0262	0.0265	0.0264	0.0273	0.0270	0.0267	0.0264

LTE Band 12 (GT - LC = -7.29 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.82	23.75	23.77
Conducted Power (Watts)	0.2410	0.2371	0.2382
ERP(dBm)	14.38	14.31	14.33
ERP(Watts)	0.0274	0.0270	0.0271

LTE Band 12 (GT - LC = -7.29 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.87	22.78	22.82
Conducted Power (Watts)	0.1936	0.1897	0.1914
ERP(dBm)	13.43	13.34	13.38
ERP(Watts)	0.0220	0.0216	0.0218

LTE Band 66 (GT - LC = -2.79 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	24.26	24.19	24.34	24.36	24.12	24.04	24.24	24.37	24.03
Conducted Power (Watts)	0.2667	0.2624	0.2716	0.2729	0.2582	0.2535	0.2655	0.2735	0.2529
EIRP(dBm)	21.47	21.40	21.55	21.57	21.33	21.25	21.45	21.58	21.24
EIRP(Watts)	0.1403	0.1380	0.1429	0.1435	0.1358	0.1334	0.1396	0.1439	0.1330

LTE Band 66 (GT - LC = -2.79 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	24.15	23.87	24.27	24.32	24.08	24.41	24.28	24.61	24.40
Conducted Power (Watts)	0.2600	0.2438	0.2673	0.2704	0.2559	0.2761	0.2679	0.2891	0.2754
EIRP(dBm)	21.36	21.08	21.48	21.53	21.29	21.62	21.49	21.82	21.61
EIRP(Watts)	0.1368	0.1282	0.1406	0.1422	0.1346	0.1452	0.1409	0.1521	0.1449

LTE Band 66 (GT - LC = -2.79 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	23.47	23.18	23.33	23.67	23.21	23.38	23.51	23.05	23.30
Conducted Power (Watts)	0.2223	0.2080	0.2153	0.2328	0.2094	0.2178	0.2244	0.2018	0.2138
EIRP(dBm)	20.68	20.39	20.54	20.88	20.42	20.59	20.72	20.26	20.51
EIRP(Watts)	0.1169	0.1094	0.1132	0.1225	0.1102	0.1146	0.1180	0.1062	0.1125

LTE Band 66 (GT - LC = -2.79 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	23.66	23.26	23.46	23.67	23.35	23.79	23.80	23.42	23.69
Conducted Power (Watts)	0.2323	0.2118	0.2218	0.2328	0.2163	0.2393	0.2399	0.2198	0.2339
EIRP(dBm)	20.87	20.47	20.67	20.88	20.56	21.00	21.01	20.63	20.90
EIRP(Watts)	0.1222	0.1114	0.1167	0.1225	0.1138	0.1259	0.1262	0.1156	0.1230

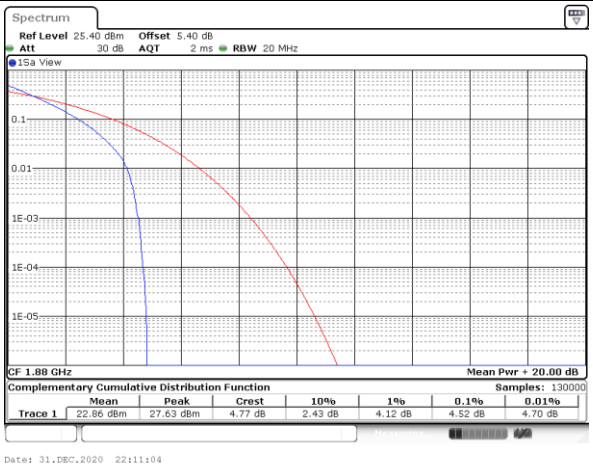
LTE Band 66 (GT - LC = -2.79 dB) 64QAM			
Bandwidth	**20M**		
Channel	**132072**	**132072**	**132072**
	(Low)	**(Low)**	**(Low)**
Frequency (MHz)	**1720**	**1720**	**1720**
Conducted Power (dBm)	23.22	22.34	22.45
Conducted Power (Watts)	0.2099	0.1714	0.1758
ERP(dBm)	20.43	19.55	19.66
ERP(Watts)	0.1104	0.0902	0.0925

LTE Band 2

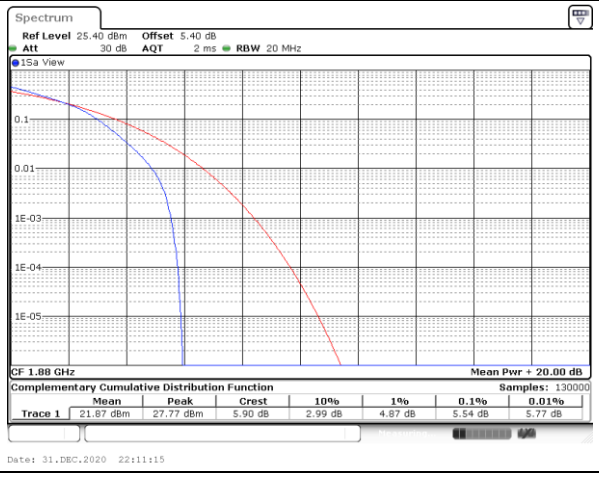
Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.54	6.52	PASS

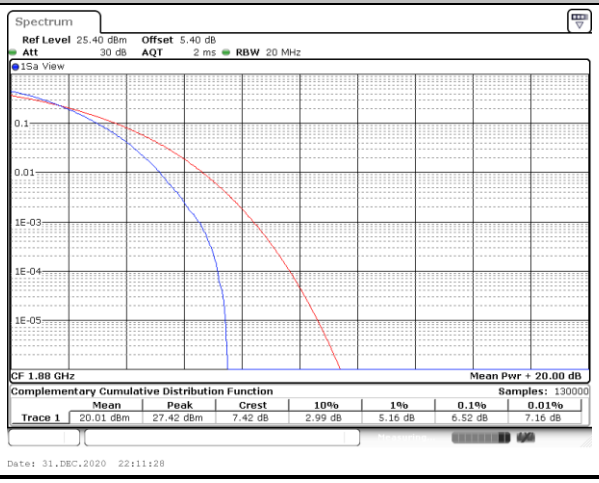
LTE Band 2 / 20MHz / QPSK Middle Channel / Full RB



LTE Band 2 / 20MHz / 16QAM Middle Channel / Full RB



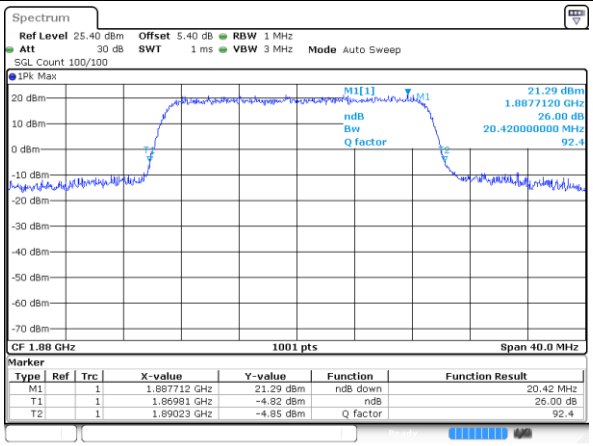
LTE Band 2 / 20MHz / 64QAM Middle Channel / Full RB

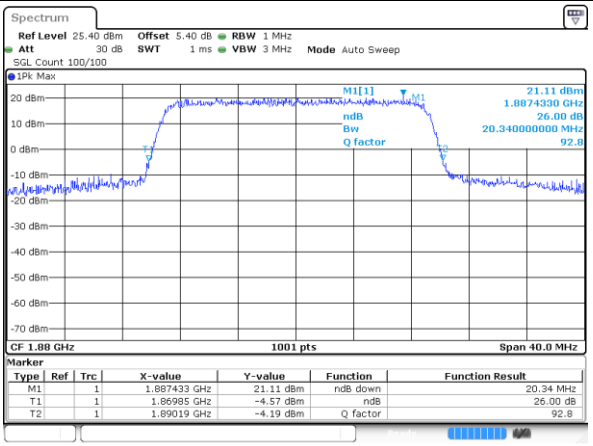


26dB Bandwidth

Mode	LTE Band 2 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.42	20.34

LTE Band 2	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

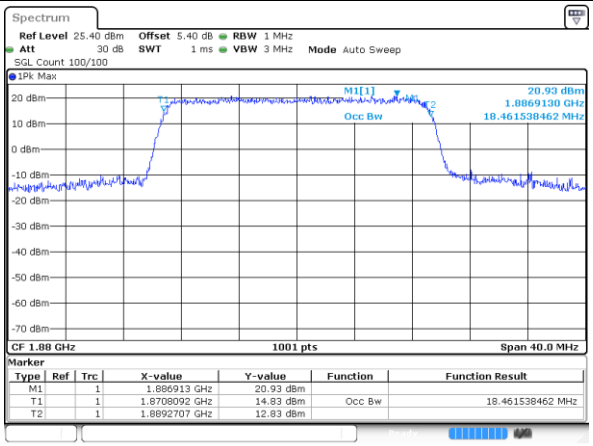


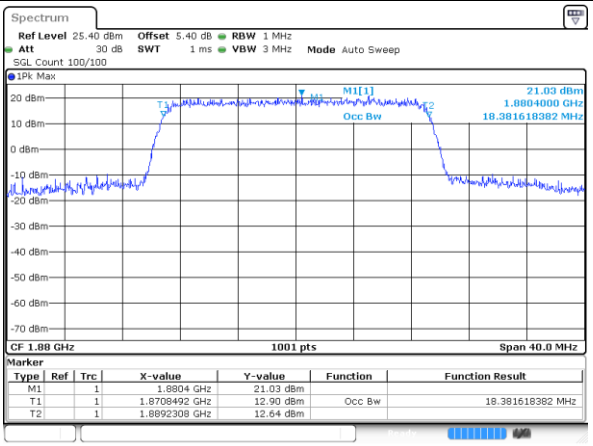


Occupied Bandwidth

Mode	LTE Band 2 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.46	18.38

LTE Band 2	
Middle Channel / 20MHz / QPSK	Middle Channel / 20MHz / 16QAM

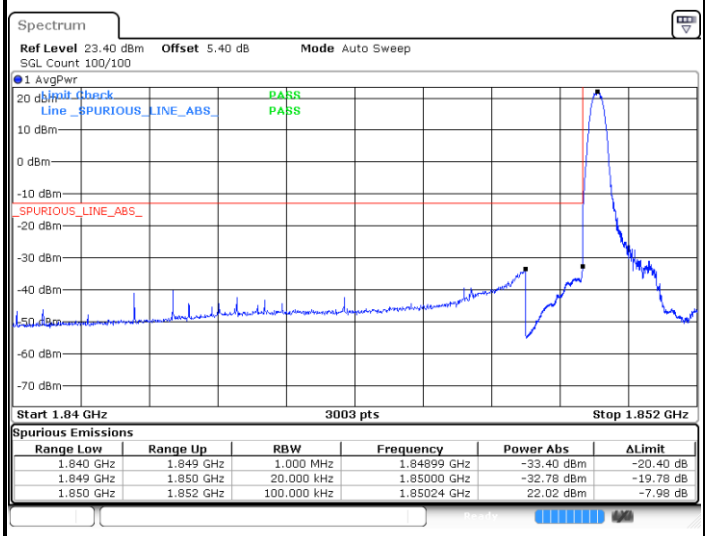




Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

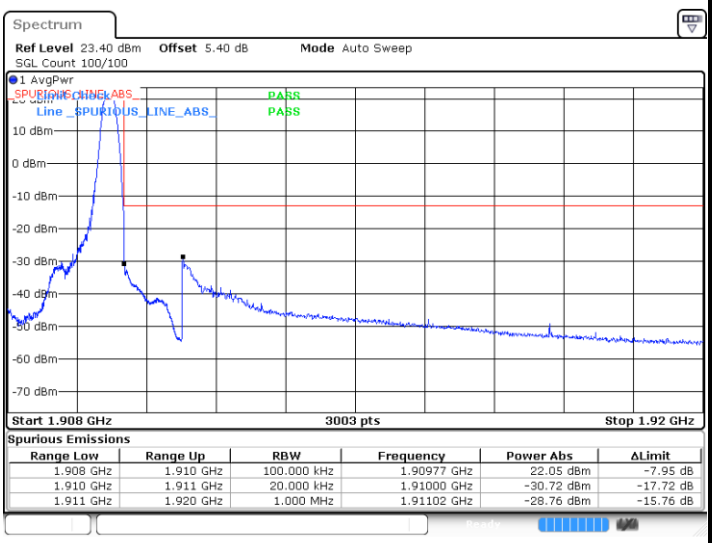


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-33.40 dBm	-20.40 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-32.78 dBm	-19.78 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85024 GHz	22.02 dBm	-7.98 dB

Date: 31.DEC.2020 21:42:51

Highest Band Edge / 1RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90977 GHz	22.05 dBm	-7.95 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-30.72 dBm	-17.72 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-28.76 dBm	-15.76 dB

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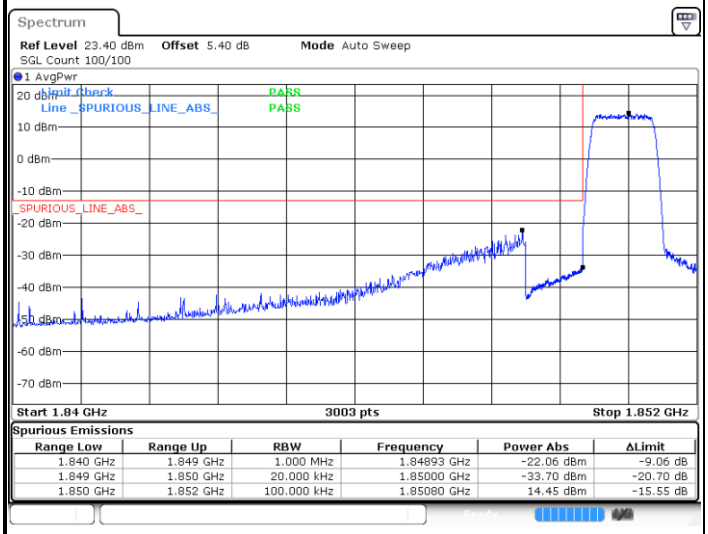
Lowest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84893 GHz	-22.06 dBm	-9.06 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-33.70 dBm	-20.70 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85080 GHz	14.45 dBm	-15.55 dB

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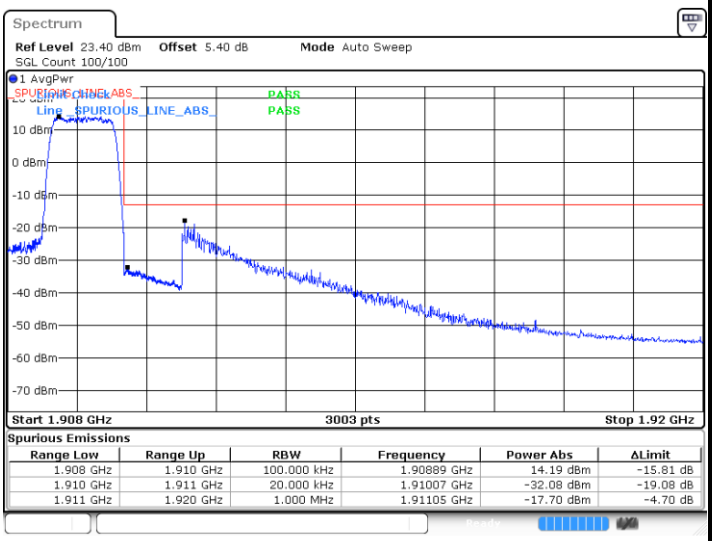
Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90889 GHz	14.19 dBm	-15.81 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91007 GHz	-32.08 dBm	-19.08 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91105 GHz	-17.70 dBm	-4.70 dB

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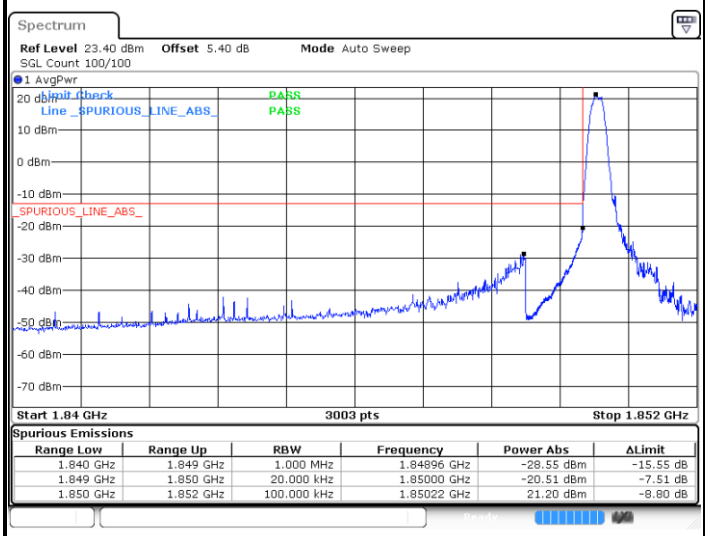
LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

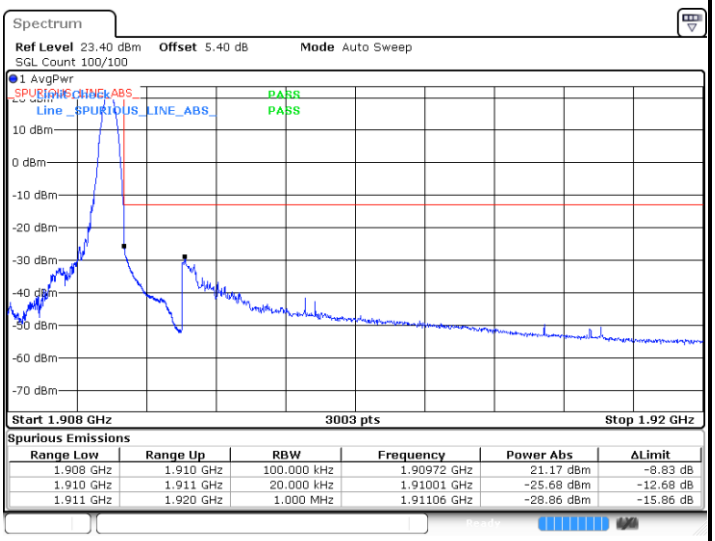


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-28.55 dBm	-15.55 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-20.51 dBm	-7.51 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85022 GHz	21.20 dBm	-8.80 dB

Date: 31.DEC.2020 21:44:00

Highest Band Edge / 1 RB

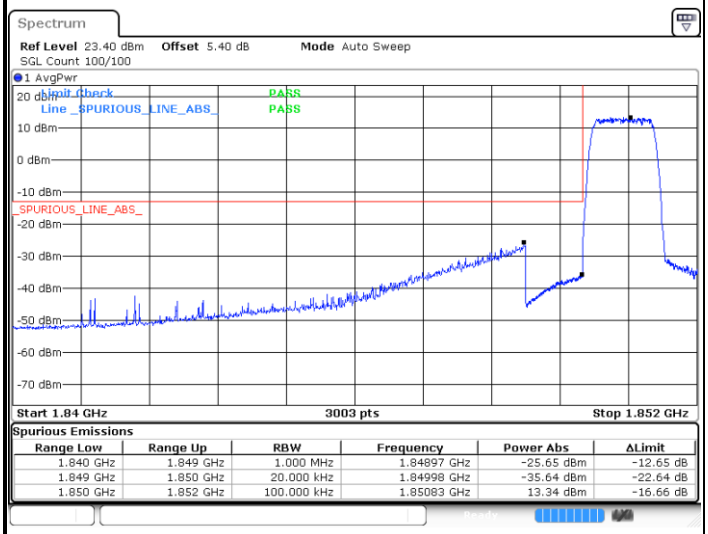


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90972 GHz	21.17 dBm	-8.83 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91001 GHz	-25.68 dBm	-12.68 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-28.86 dBm	-15.86 dB

Date: 31.DEC.2020 21:48:34

Lowest Band Edge / Full RB

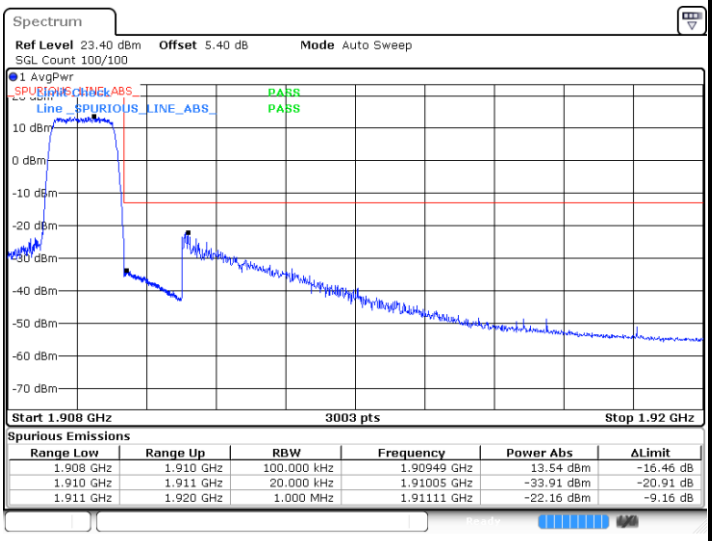


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-25.65 dBm	-12.65 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84998 GHz	-35.64 dBm	-22.64 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85083 GHz	13.34 dBm	-16.66 dB

Date: 31.DEC.2020 21:46:17

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90949 GHz	13.54 dBm	-16.46 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91005 GHz	-33.91 dBm	-20.91 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91111 GHz	-22.16 dBm	-9.16 dB

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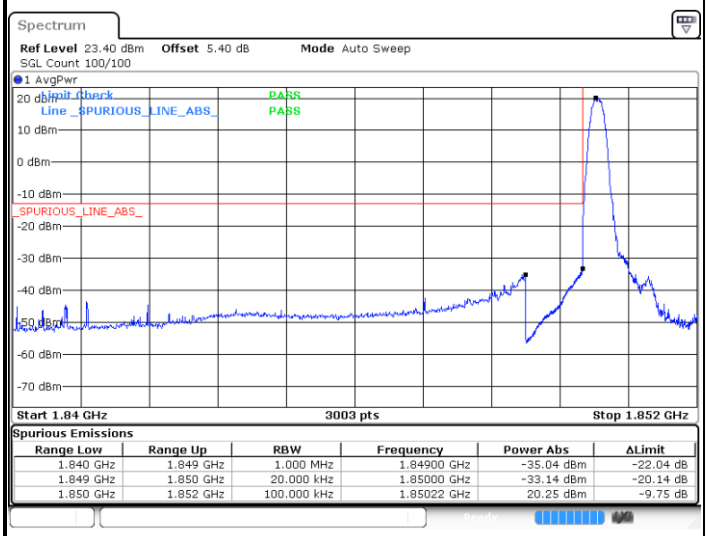
LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

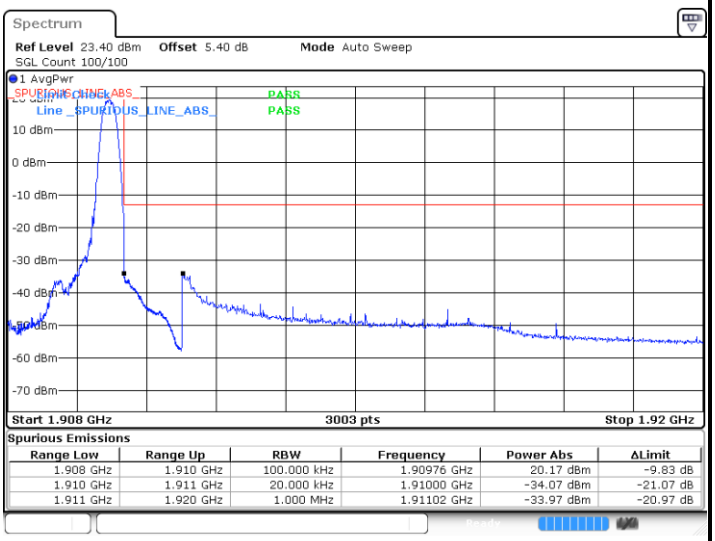


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-35.04 dBm	-22.04 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-33.14 dBm	-20.14 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85022 GHz	20.25 dBm	-9.75 dB

Date: 31.DEC.2020 22:36:30

Highest Band Edge / 1 RB

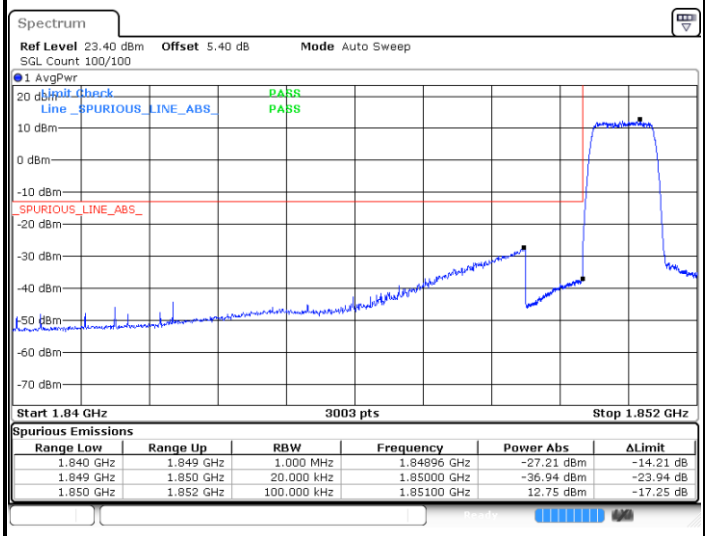


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	20.17 dBm	-9.83 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91000 GHz	-34.07 dBm	-21.07 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-33.97 dBm	-20.97 dB

Date: 31.DEC.2020 22:38:47

Lowest Band Edge / Full RB

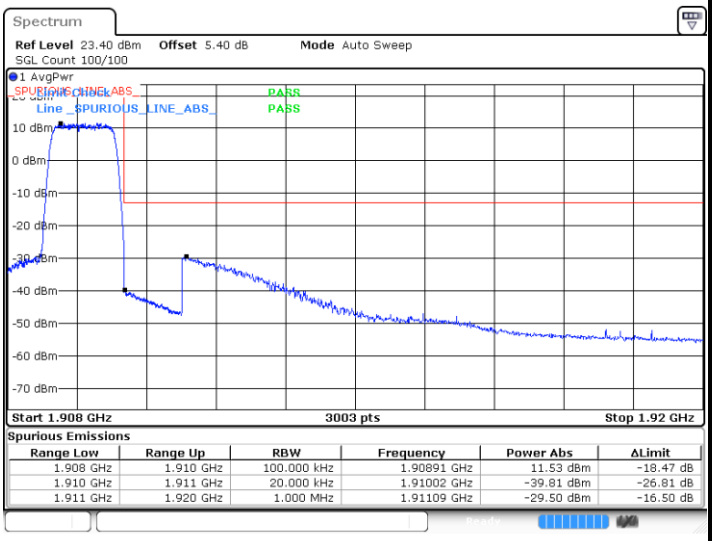


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-27.21 dBm	-14.21 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-36.94 dBm	-23.94 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85100 GHz	12.75 dBm	-17.25 dB

Date: 31.DEC.2020 22:37:38

Highest Band Edge / Full RB



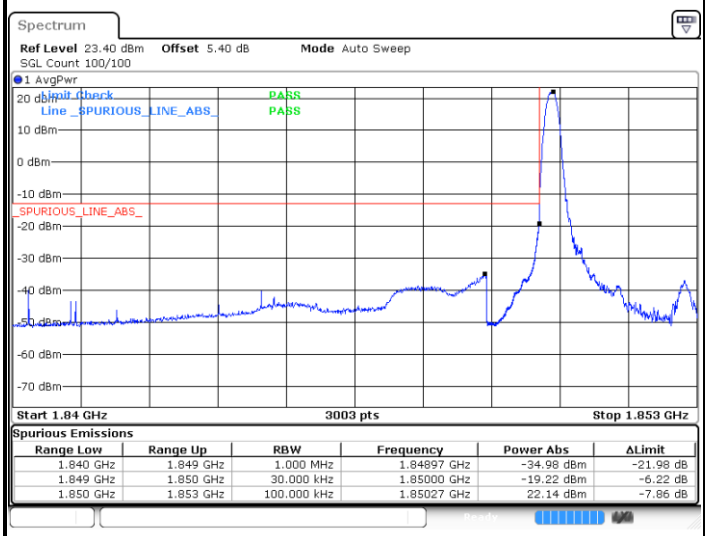
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90891 GHz	11.53 dBm	-18.47 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91002 GHz	-39.81 dBm	-26.81 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-29.50 dBm	-16.50 dB

Date: 31.DEC.2020 22:39:55

LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB

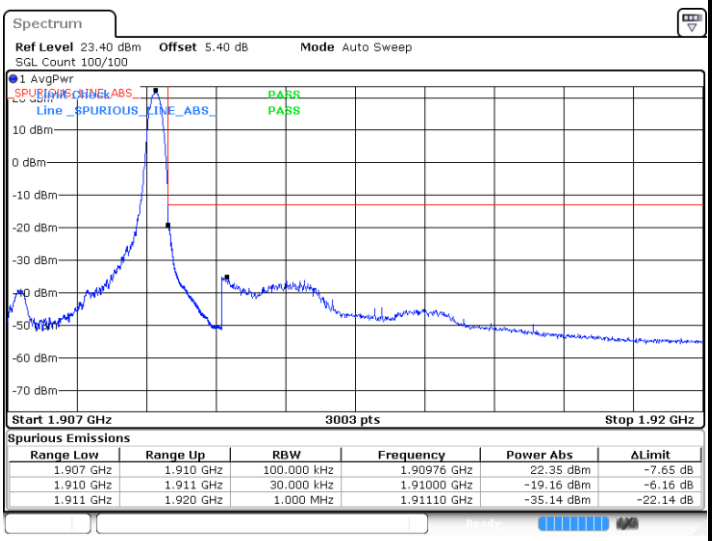


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-34.98 dBm	-21.98 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-19.22 dBm	-6.22 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85027 GHz	22.14 dBm	-7.86 dB

Date: 31.DEC.2020 21:51:59

Highest Band Edge / 1 RB

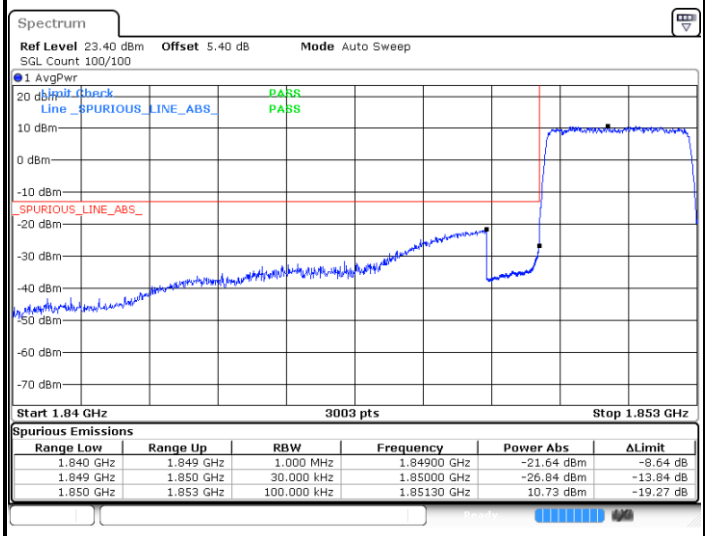


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	22.35 dBm	-7.65 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-19.16 dBm	-6.16 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91110 GHz	-35.14 dBm	-22.14 dB

Date: 31.DEC.2020 23:04:11

Lowest Band Edge / Full RB

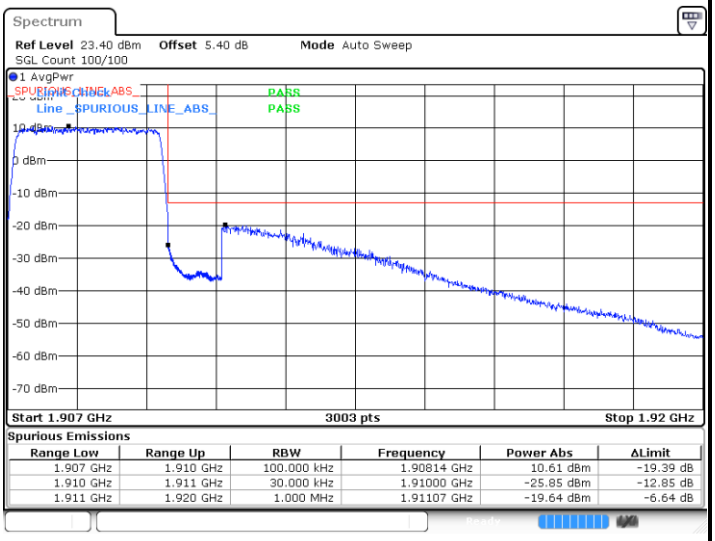


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-21.64 dBm	-8.64 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-26.84 dBm	-13.84 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85130 GHz	10.73 dBm	-19.27 dB

Date: 31.DEC.2020 21:54:16

Highest Band Edge / Full RB



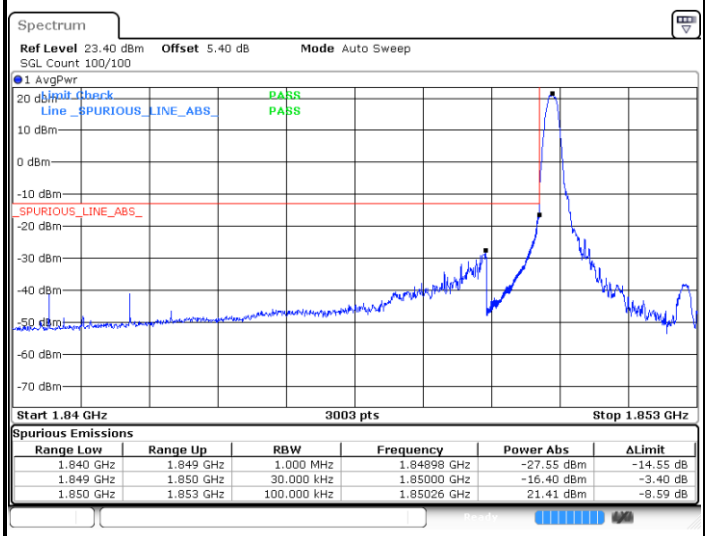
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90814 GHz	10.61 dBm	-19.39 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-25.85 dBm	-12.85 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-19.64 dBm	-6.64 dB

Date: 31.DEC.2020 21:57:42

LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

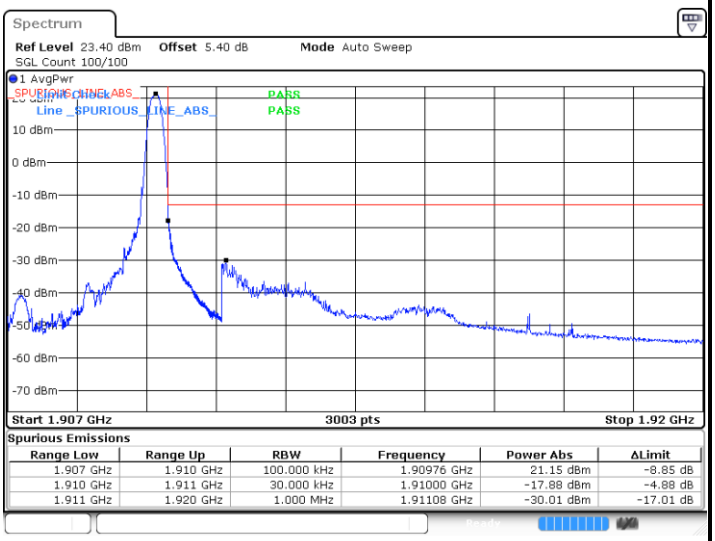


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-27.55 dBm	-14.55 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-16.40 dBm	-3.40 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85026 GHz	21.41 dBm	-8.59 dB

Date: 31.DEC.2020 21:53:08

Highest Band Edge /1 RB

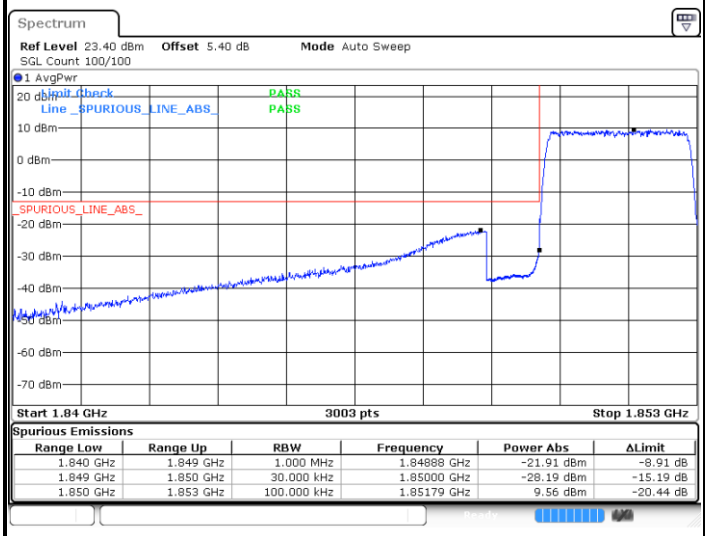


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	21.15 dBm	-8.85 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-17.88 dBm	-4.88 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-30.01 dBm	-17.01 dB

Date: 31.DEC.2020 21:56:33

Lowest Band Edge / Full RB

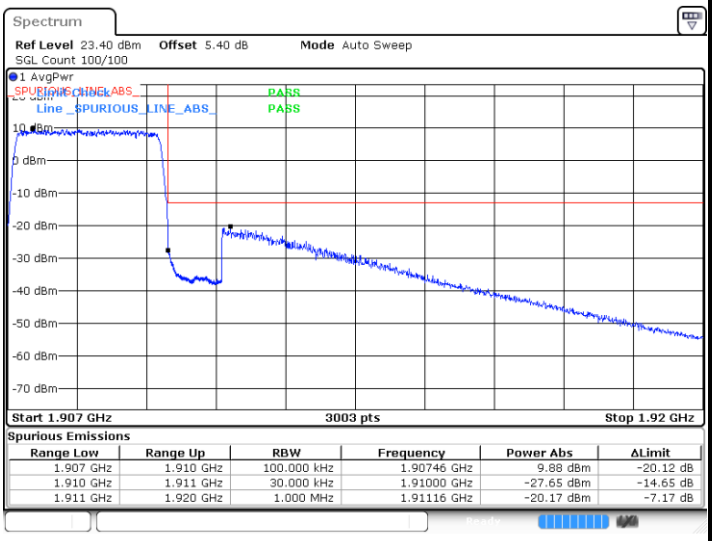


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84888 GHz	-21.91 dBm	-8.91 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-28.19 dBm	-15.19 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85179 GHz	9.56 dBm	-20.44 dB

Date: 31.DEC.2020 21:55:25

Highest Band Edge / Full RB



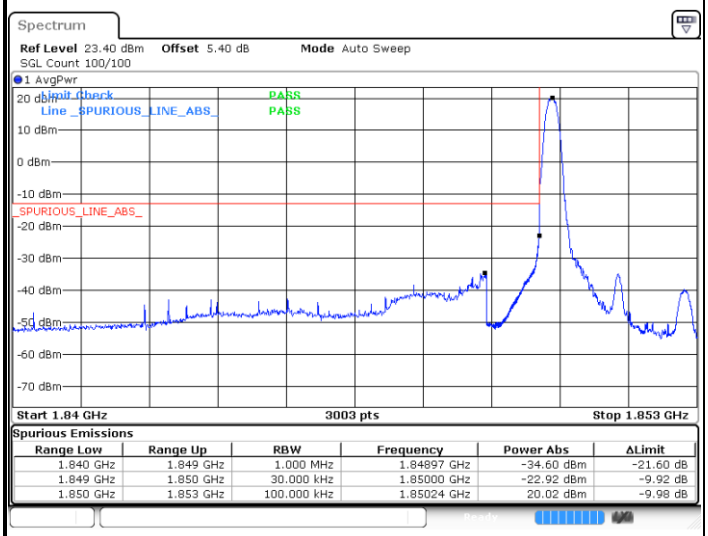
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90746 GHz	9.88 dBm	-20.12 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-27.65 dBm	-14.65 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91116 GHz	-20.17 dBm	-7.17 dB

Date: 31.DEC.2020 21:58:50

LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

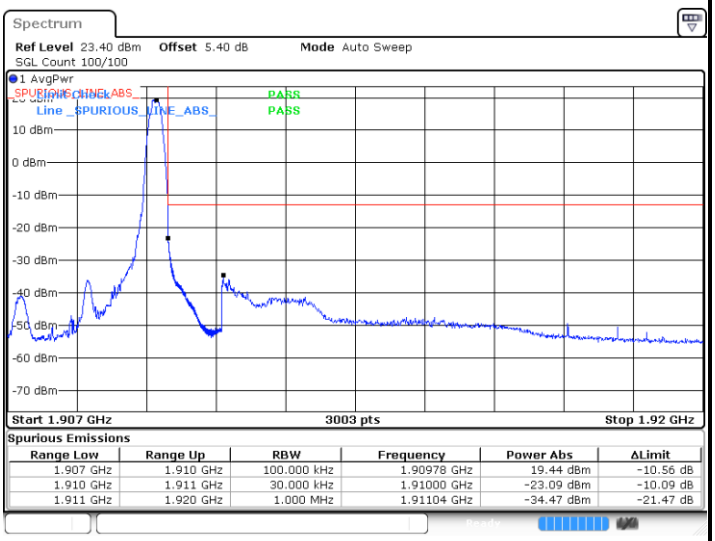


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-34.60 dBm	-21.60 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-22.92 dBm	-9.92 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85024 GHz	20.02 dBm	-9.98 dB

Date: 31.DEC.2020 22:41:04

Highest Band Edge /1 RB

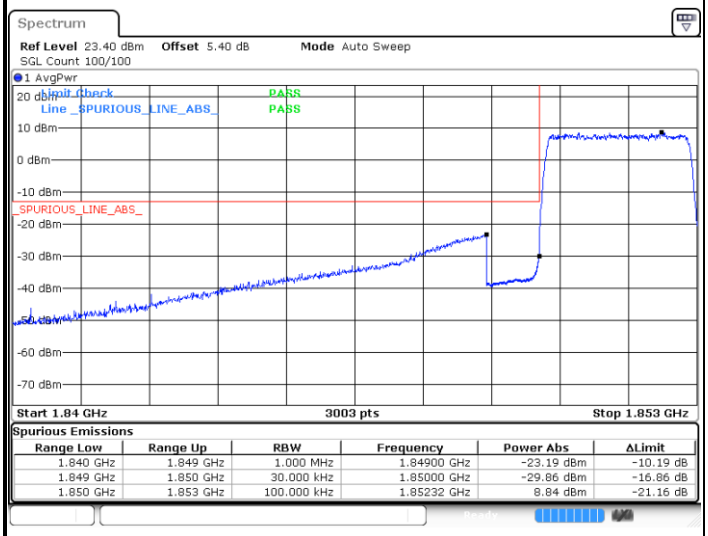


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90978 GHz	19.44 dBm	-10.56 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-23.09 dBm	-10.09 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91104 GHz	-34.47 dBm	-21.47 dB

Date: 31.DEC.2020 22:44:29

Lowest Band Edge / Full RB

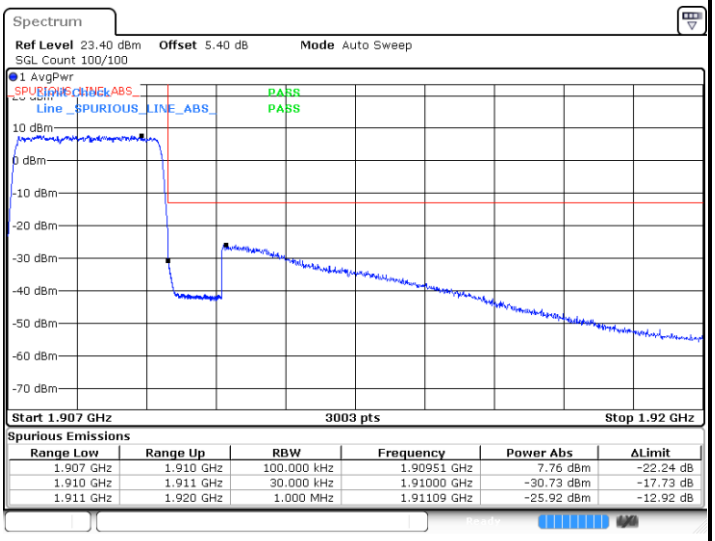


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-23.19 dBm	-10.19 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-29.86 dBm	-16.86 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85232 GHz	8.84 dBm	-21.16 dB

Date: 31.DEC.2020 22:42:12

Highest Band Edge / Full RB



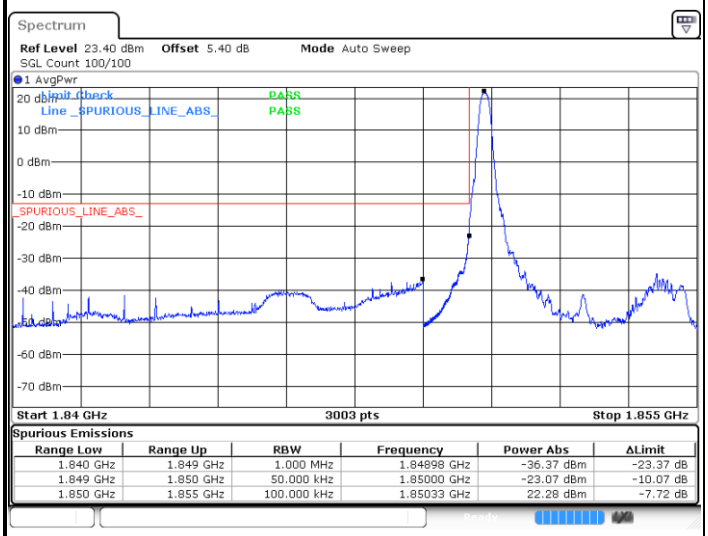
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90951 GHz	7.76 dBm	-22.24 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-30.73 dBm	-17.73 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-25.92 dBm	-12.92 dB

Date: 31.DEC.2020 22:43:21

LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB

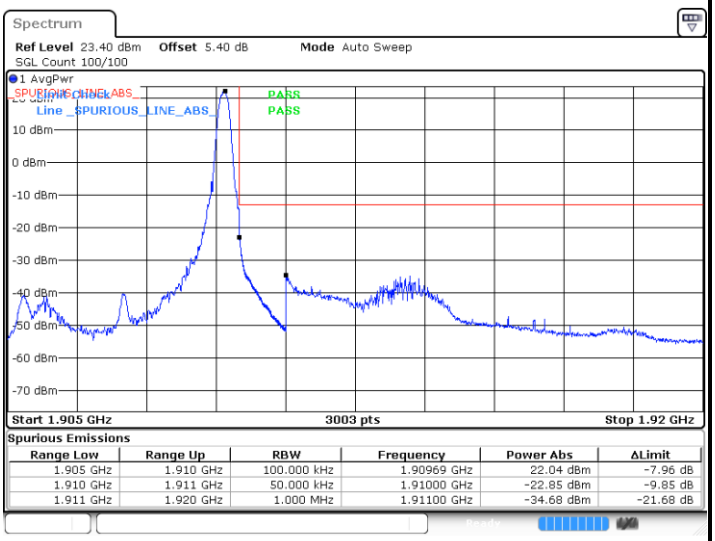


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-36.37 dBm	-23.37 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-23.07 dBm	-10.07 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85033 GHz	22.28 dBm	-7.72 dB

Date: 31.DEC.2020 21:59:59

Highest Band Edge / 1 RB

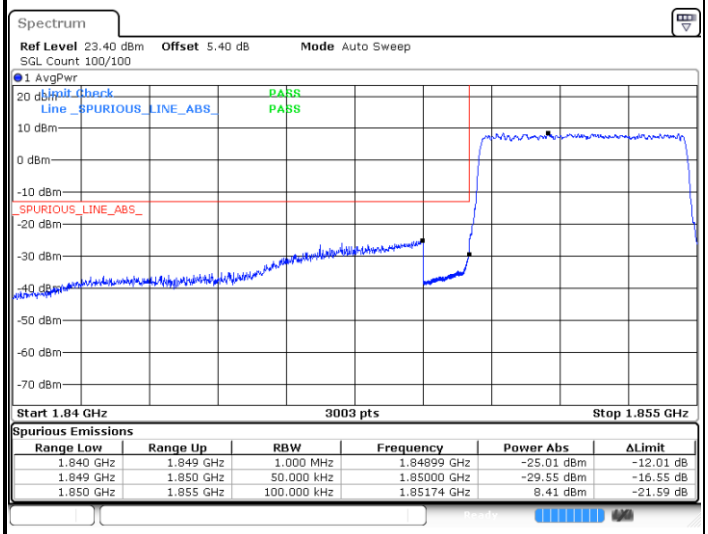


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90969 GHz	22.04 dBm	-7.96 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-22.85 dBm	-9.85 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-34.68 dBm	-21.68 dB

Date: 31.DEC.2020 22:04:33

Lowest Band Edge / Full RB

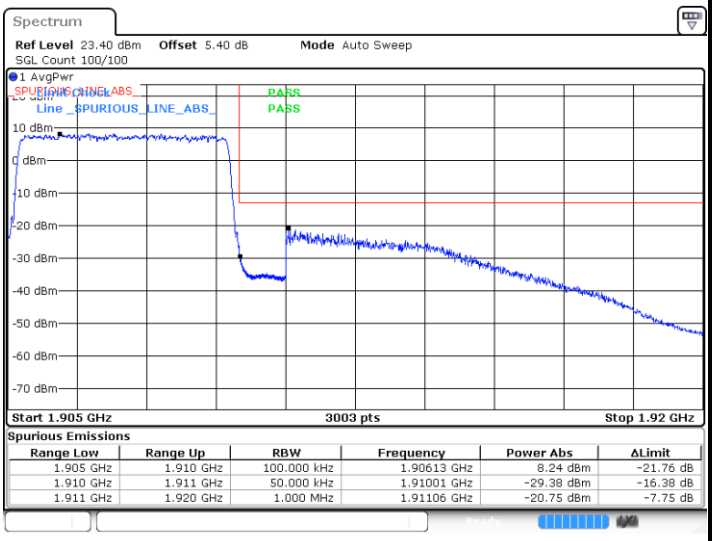


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-25.01 dBm	-12.01 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-29.55 dBm	-16.55 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85174 GHz	8.41 dBm	-21.59 dB

Date: 31.DEC.2020 22:02:16

Highest Band Edge / Full RB



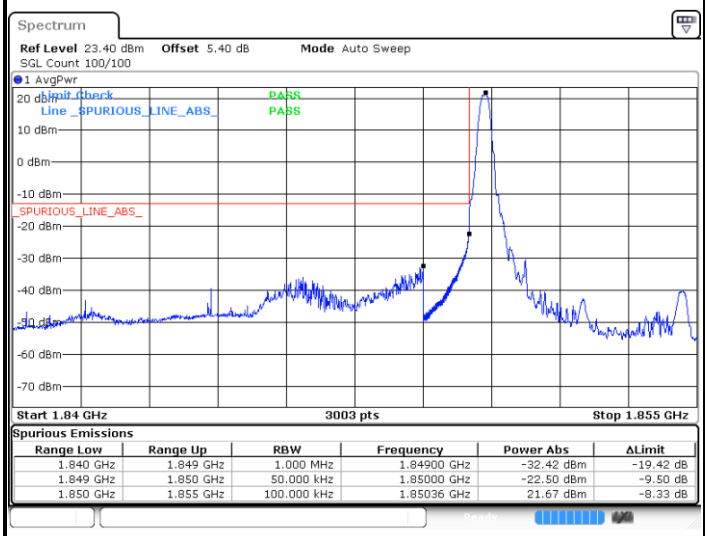
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90613 GHz	8.24 dBm	-21.76 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91001 GHz	-29.38 dBm	-16.38 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-20.75 dBm	-7.75 dB

Date: 31.DEC.2020 22:06:50

LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB

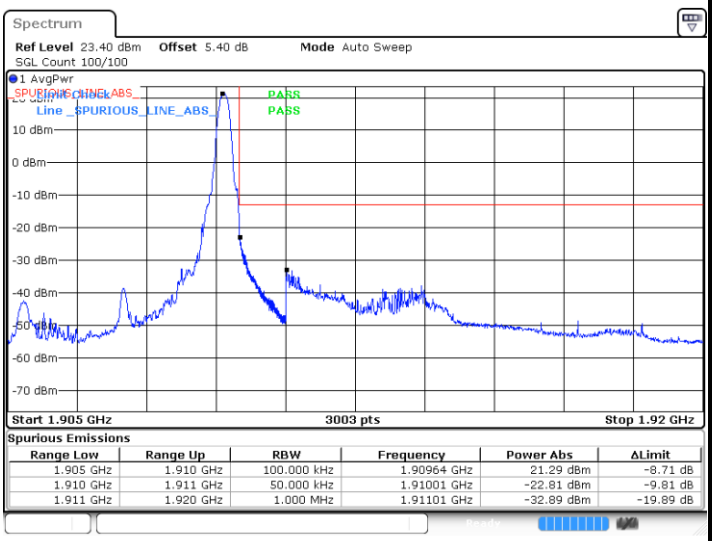


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-32.42 dBm	-19.42 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-22.50 dBm	-9.50 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85036 GHz	21.67 dBm	-8.33 dB

Date: 31.DEC.2020 22:01:07

Highest Band Edge / 1 RB

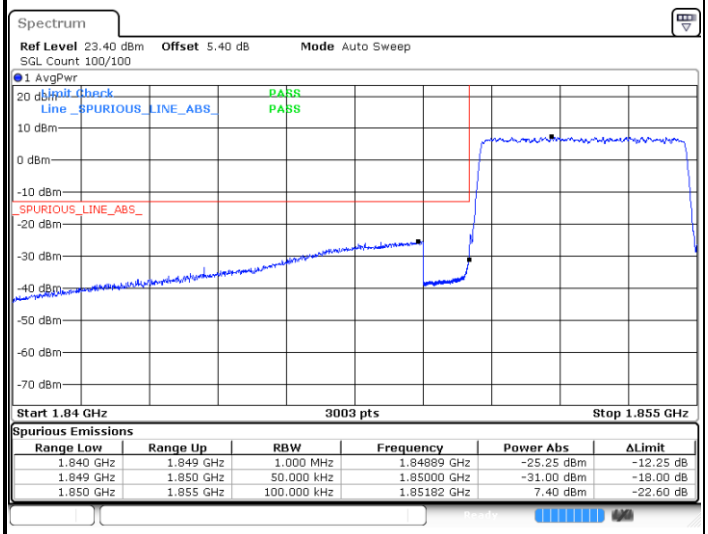


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90964 GHz	21.29 dBm	-8.71 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91001 GHz	-22.81 dBm	-9.81 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-32.89 dBm	-19.89 dB

Date: 31.DEC.2020 22:05:41

Lowest Band Edge / Full RB

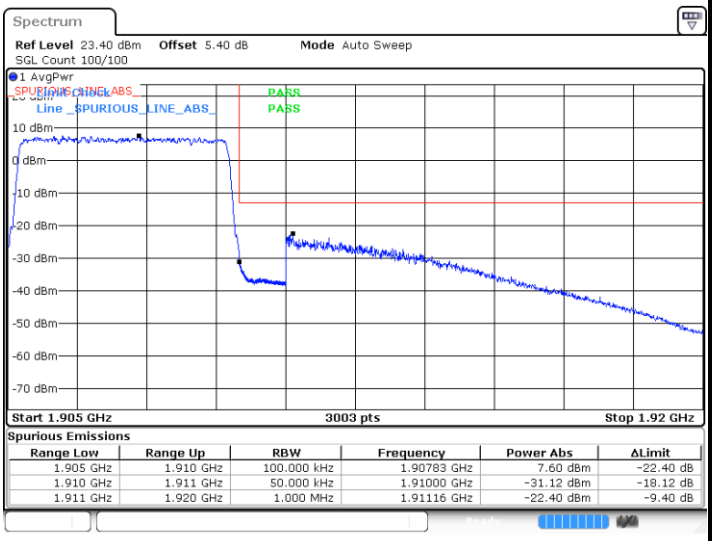


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84889 GHz	-25.25 dBm	-12.25 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-31.00 dBm	-18.00 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85182 GHz	7.40 dBm	-22.60 dB

Date: 31.DEC.2020 22:03:24

Highest Band Edge / Full RB



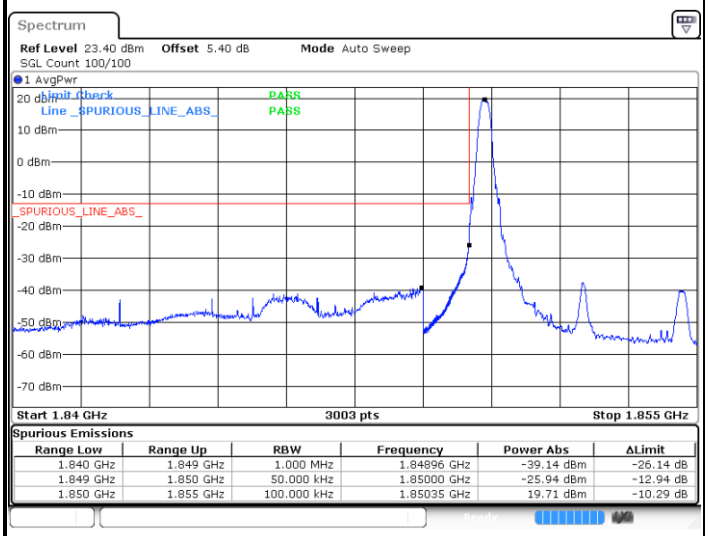
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90783 GHz	7.60 dBm	-22.40 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-31.12 dBm	-18.12 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91116 GHz	-22.40 dBm	-9.40 dB

Date: 31.DEC.2020 22:07:58

LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB

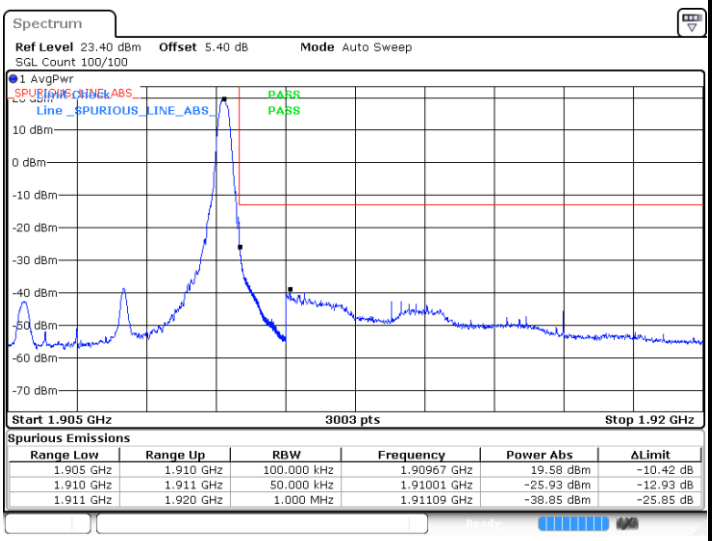


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-39.14 dBm	-26.14 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-25.94 dBm	-12.94 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85035 GHz	19.71 dBm	-10.29 dB

Date: 31.DEC.2020 22:45:37

Highest Band Edge / 1 RB

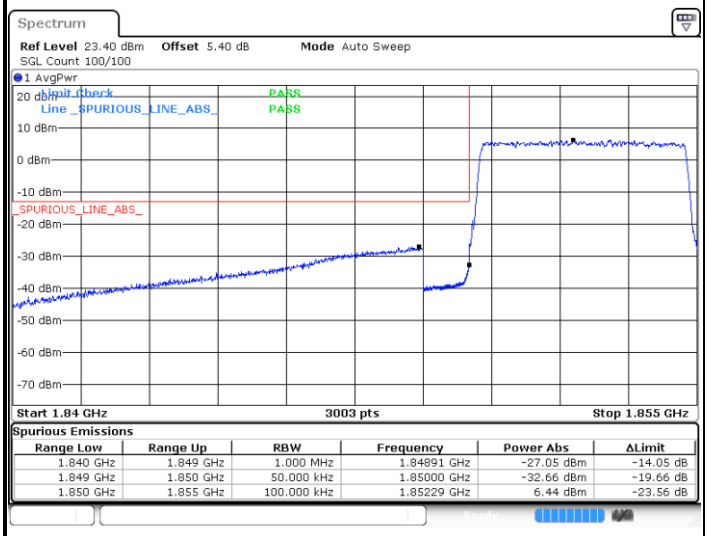


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90967 GHz	19.58 dBm	-10.42 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91001 GHz	-25.93 dBm	-12.93 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-38.85 dBm	-25.85 dB

Date: 31.DEC.2020 22:49:03

Lowest Band Edge / Full RB

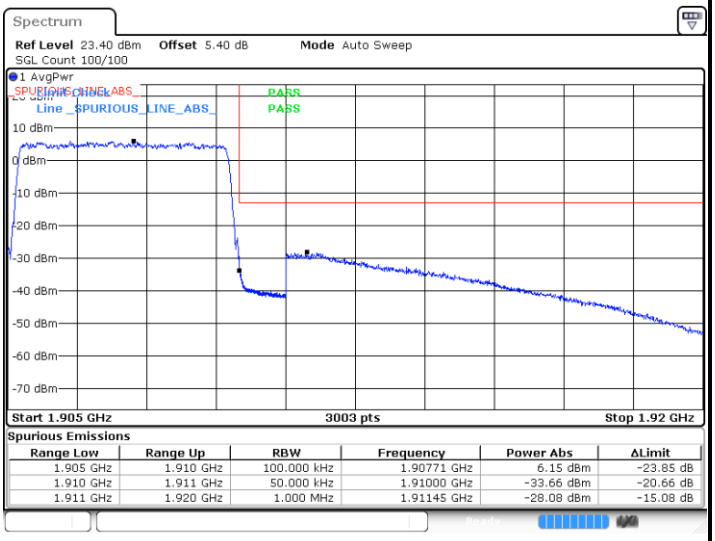


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-27.05 dBm	-14.05 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-32.66 dBm	-19.66 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85229 GHz	6.44 dBm	-23.56 dB

Date: 31.DEC.2020 22:46:46

Highest Band Edge / Full RB



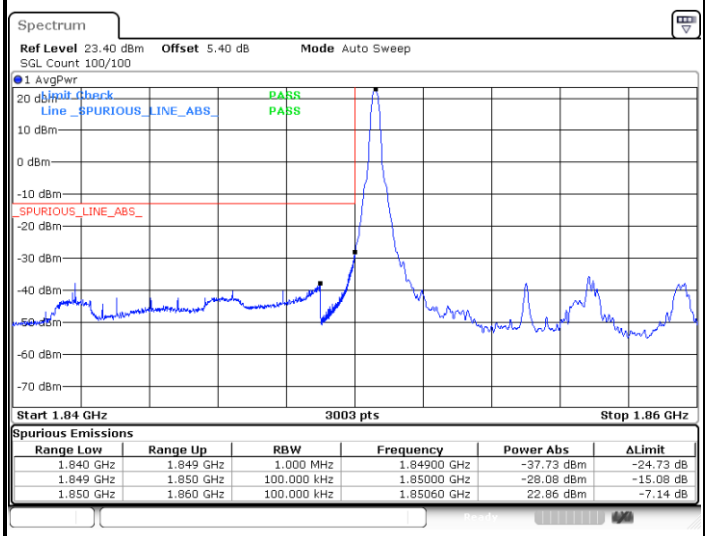
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90771 GHz	6.15 dBm	-23.85 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-33.66 dBm	-20.66 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91145 GHz	-28.08 dBm	-15.08 dB

Date: 31.DEC.2020 22:47:54

LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB

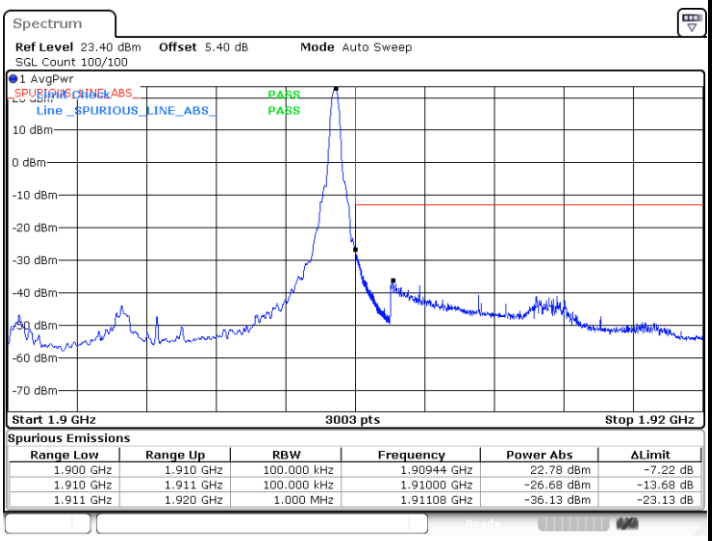


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-37.73 dBm	-24.73 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-28.08 dBm	-15.08 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85060 GHz	22.86 dBm	-7.14 dB

Date: 3.JAN.2021 18:49:25

Highest Band Edge / 1 RB

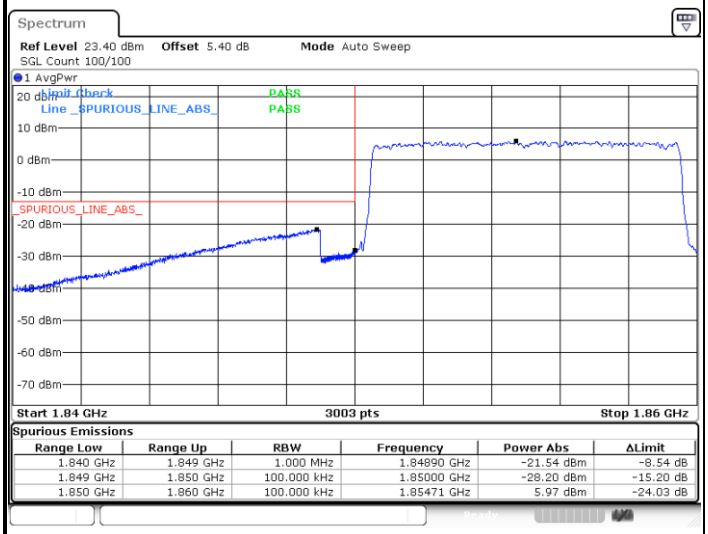


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90944 GHz	22.78 dBm	-7.22 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-26.68 dBm	-13.68 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-36.13 dBm	-23.13 dB

Date: 3.JAN.2021 18:53:59

Lowest Band Edge / Full RB

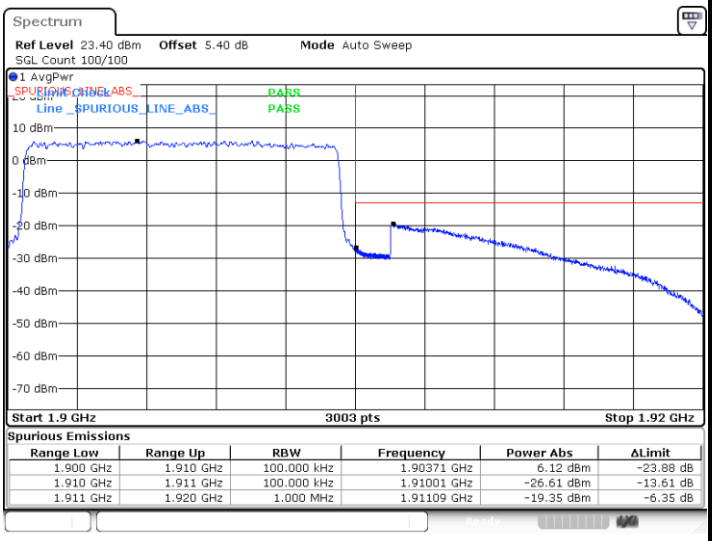


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84890 GHz	-21.54 dBm	-8.54 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-28.20 dBm	-15.20 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85471 GHz	5.97 dBm	-24.03 dB

Date: 3.JAN.2021 18:51:41

Highest Band Edge / Full RB



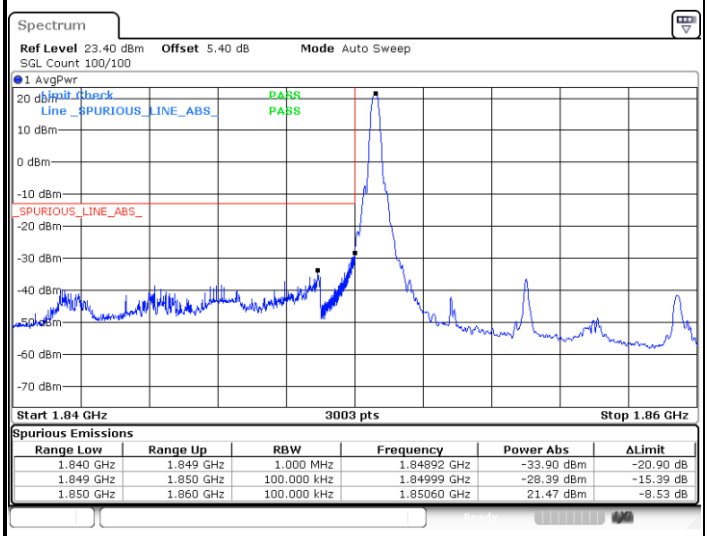
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90371 GHz	6.12 dBm	-23.88 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-26.61 dBm	-13.61 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-19.35 dBm	-6.35 dB

Date: 3.JAN.2021 18:56:16

LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

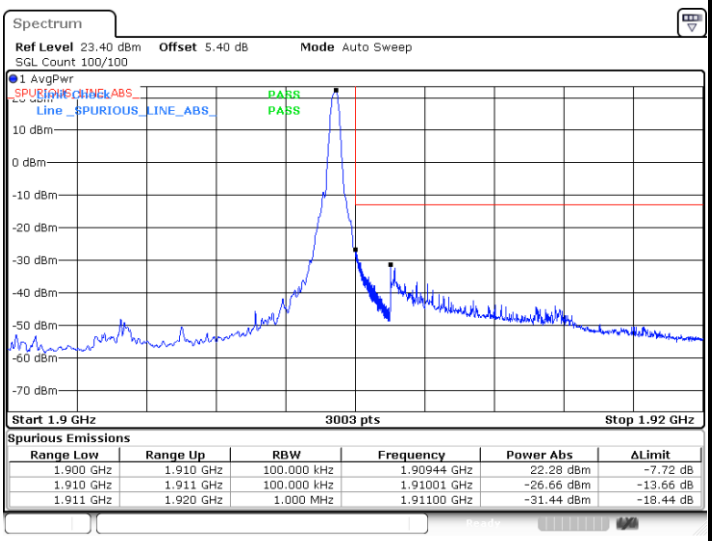


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84892 GHz	-33.90 dBm	-20.90 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-28.39 dBm	-15.39 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85060 GHz	21.47 dBm	-8.53 dB

Date: 3.JAN.2021 18:50:33

Highest Band Edge / 1 RB

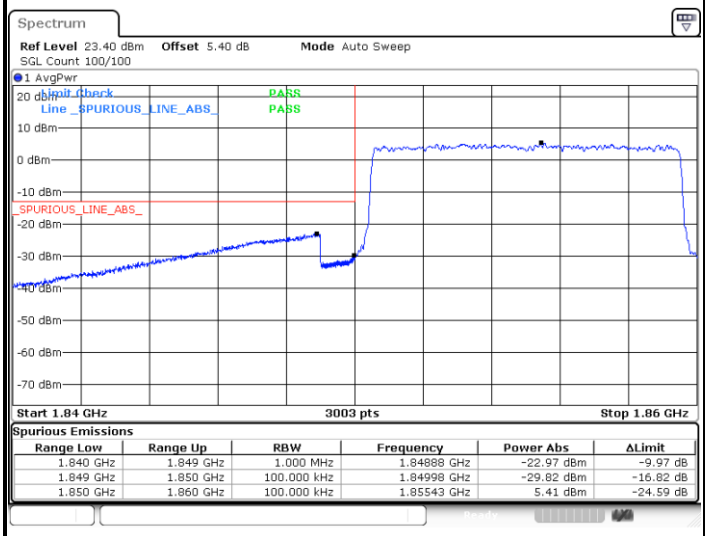


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90944 GHz	22.28 dBm	-7.72 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-26.66 dBm	-13.66 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-31.44 dBm	-18.44 dB

Date: 3.JAN.2021 18:55:07

Lowest Band Edge / Full RB

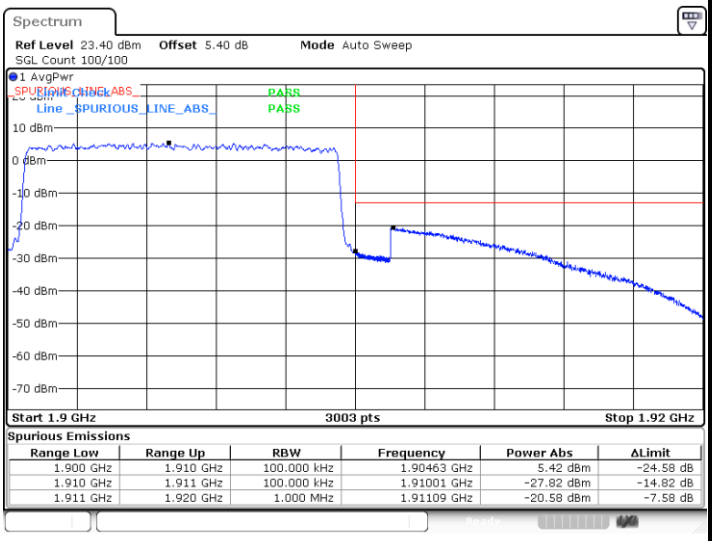


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84888 GHz	-22.97 dBm	-9.97 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84998 GHz	-29.82 dBm	-16.82 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85543 GHz	5.41 dBm	-24.59 dB

Date: 3.JAN.2021 18:52:50

Highest Band Edge / Full RB



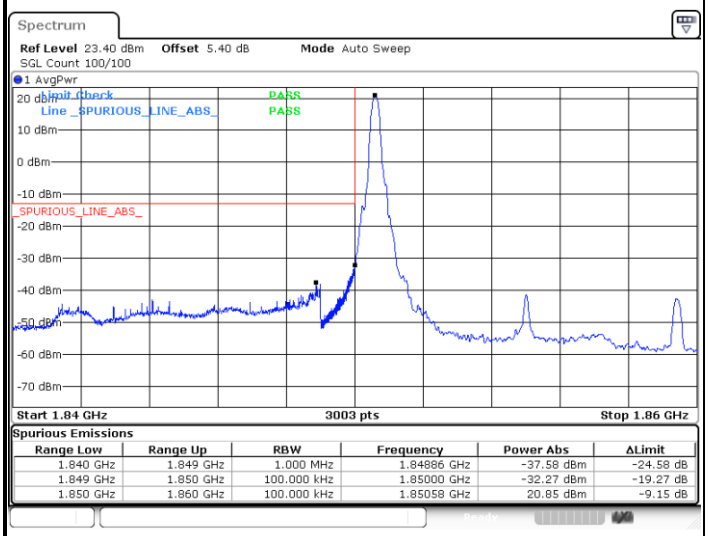
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90463 GHz	5.42 dBm	-24.58 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-27.82 dBm	-14.82 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-20.58 dBm	-7.58 dB

Date: 3.JAN.2021 18:57:24

LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

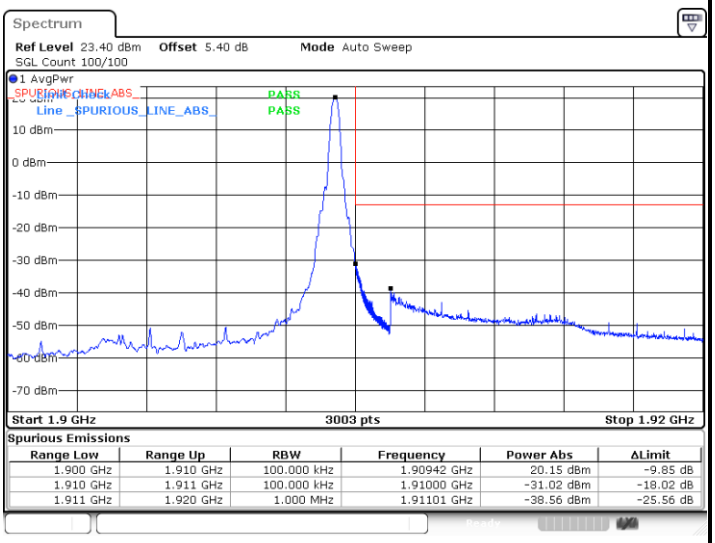


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84886 GHz	-37.58 dBm	-24.58 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-32.27 dBm	-19.27 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85058 GHz	20.85 dBm	-9.15 dB

Date: 3.JAN.2021 19:16:49

Highest Band Edge / 1 RB

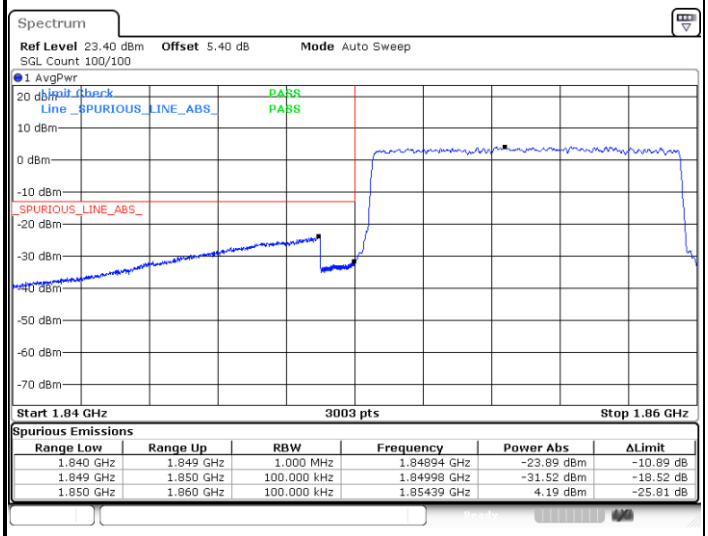


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90942 GHz	20.15 dBm	-9.85 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-31.02 dBm	-18.02 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-38.56 dBm	-25.56 dB

Date: 3.JAN.2021 19:20:14

Lowest Band Edge / Full RB

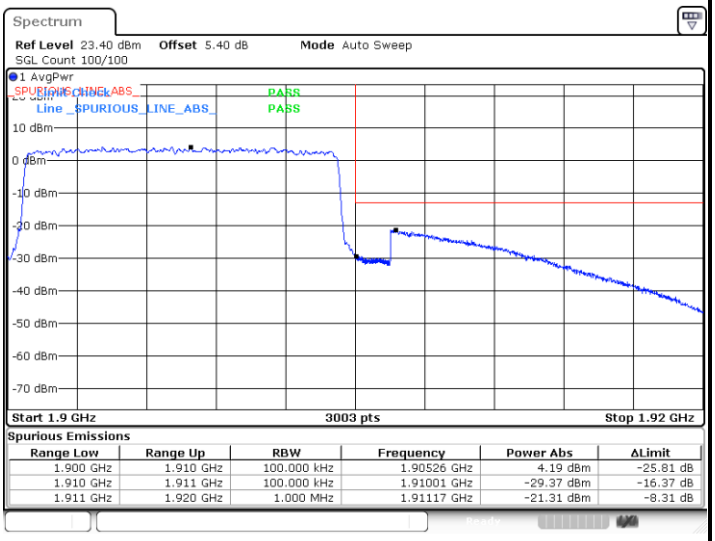


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84894 GHz	-23.89 dBm	-10.89 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84998 GHz	-31.52 dBm	-18.52 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85439 GHz	4.19 dBm	-25.81 dB

Date: 3.JAN.2021 19:17:57

Highest Band Edge / Full RB



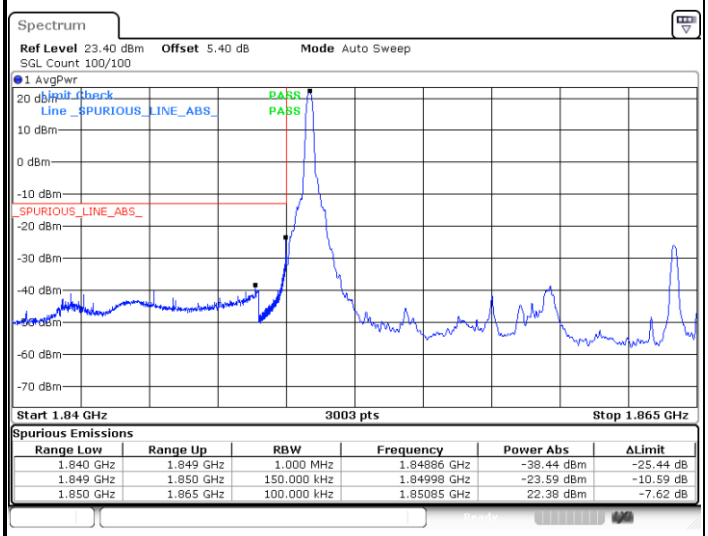
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90526 GHz	4.19 dBm	-25.81 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-29.37 dBm	-16.37 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91117 GHz	-21.31 dBm	-8.31 dB

Date: 3.JAN.2021 19:19:06

LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB

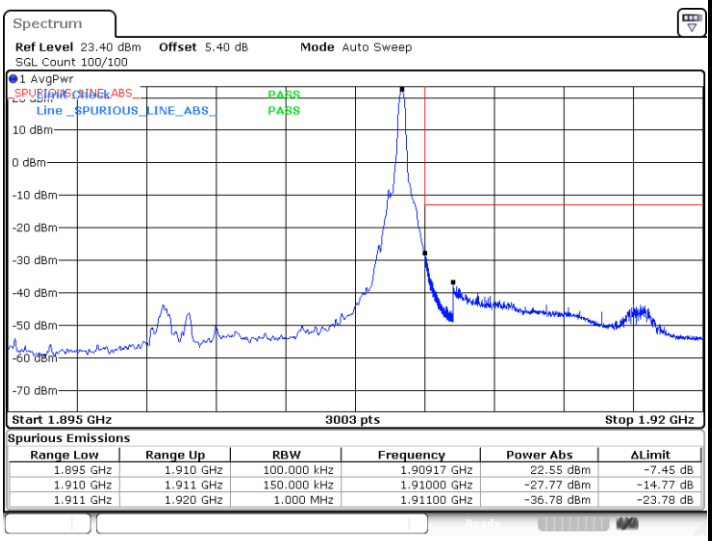


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84886 GHz	-38.44 dBm	-25.44 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84998 GHz	-23.59 dBm	-10.59 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85085 GHz	22.38 dBm	-7.62 dB

Date: 3.JAN.2021 18:58:33

Highest Band Edge / 1 RB

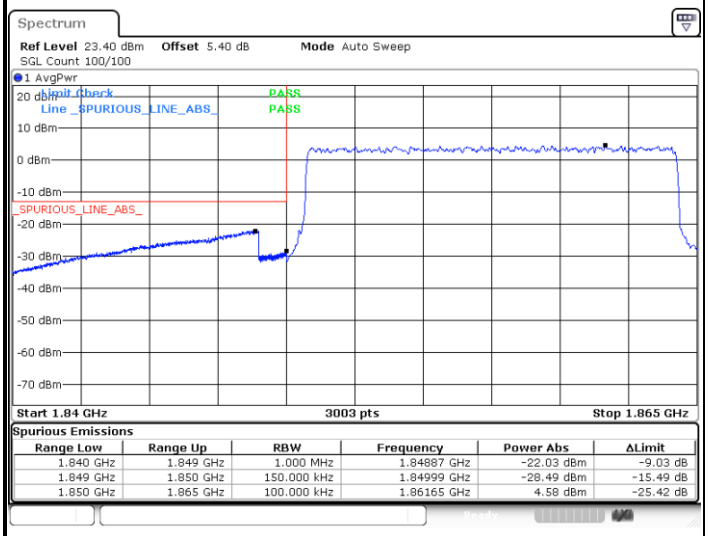


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	22.55 dBm	-7.45 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-27.77 dBm	-14.77 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-36.78 dBm	-23.78 dB

Date: 3.JAN.2021 19:03:07

Lowest Band Edge / Full RB

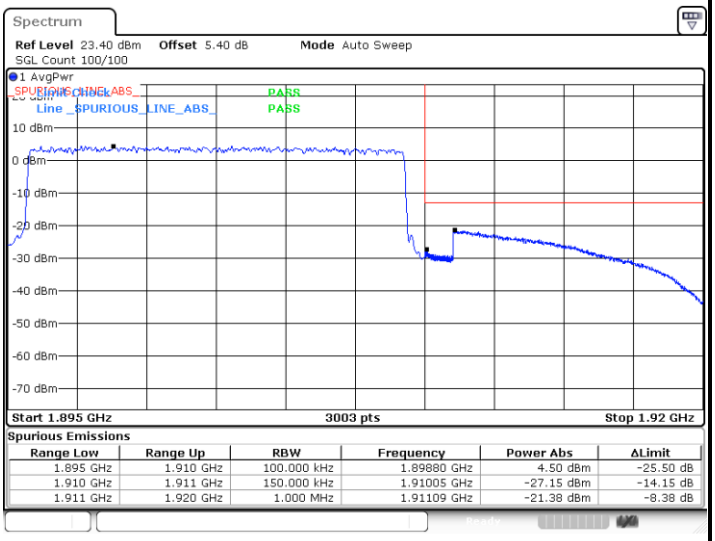


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84887 GHz	-22.03 dBm	-9.03 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-28.49 dBm	-15.49 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86165 GHz	4.58 dBm	-25.42 dB

Date: 3.JAN.2021 19:00:50

Highest Band Edge / Full RB



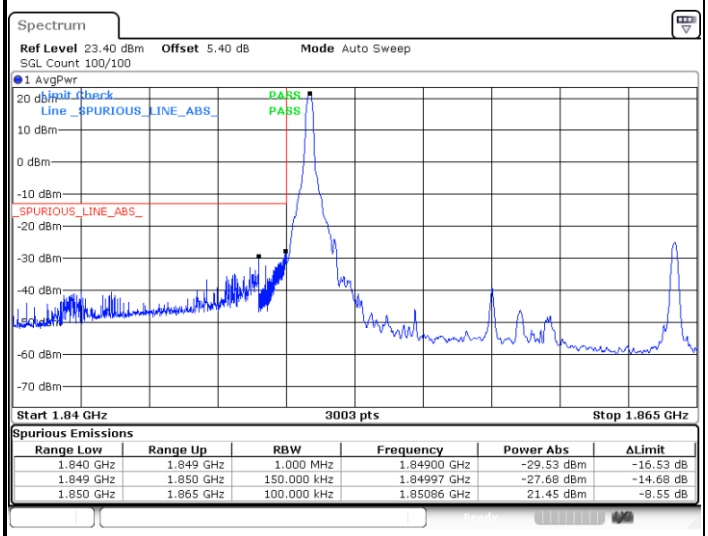
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89880 GHz	4.50 dBm	-25.50 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91005 GHz	-27.15 dBm	-14.15 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-21.38 dBm	-8.38 dB

Date: 3.JAN.2021 19:05:25

LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

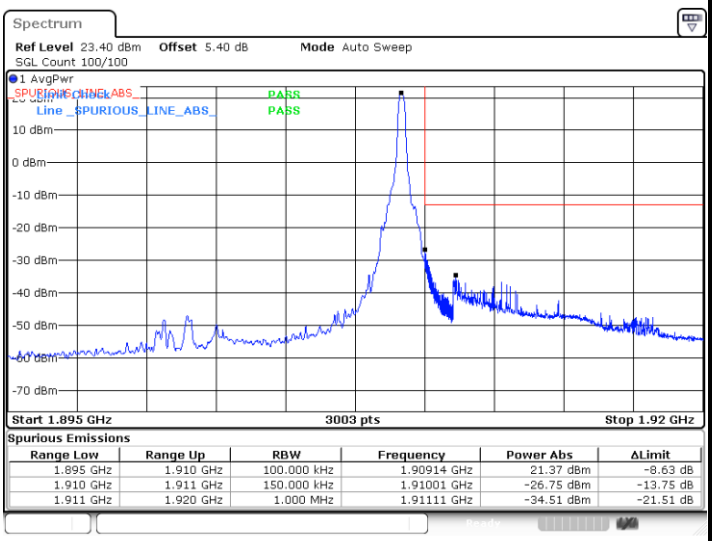


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-29.53 dBm	-16.53 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84997 GHz	-27.68 dBm	-14.68 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85086 GHz	21.45 dBm	-8.55 dB

Date: 3.JAN.2021 18:59:42

Highest Band Edge / 1 RB

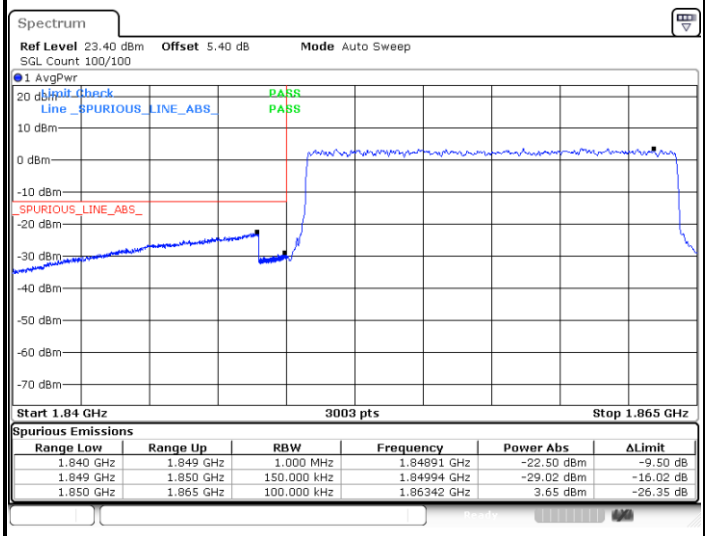


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90914 GHz	21.37 dBm	-8.63 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91001 GHz	-26.75 dBm	-13.75 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91111 GHz	-34.51 dBm	-21.51 dB

Date: 3.JAN.2021 19:04:16

Lowest Band Edge / Full RB

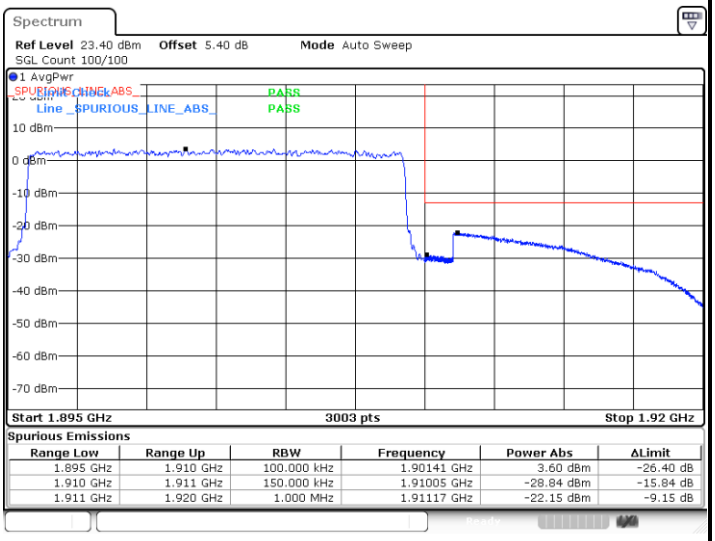


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-22.50 dBm	-9.50 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84994 GHz	-29.02 dBm	-16.02 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86342 GHz	3.65 dBm	-26.35 dB

Date: 3.JAN.2021 19:01:59

Highest Band Edge / Full RB



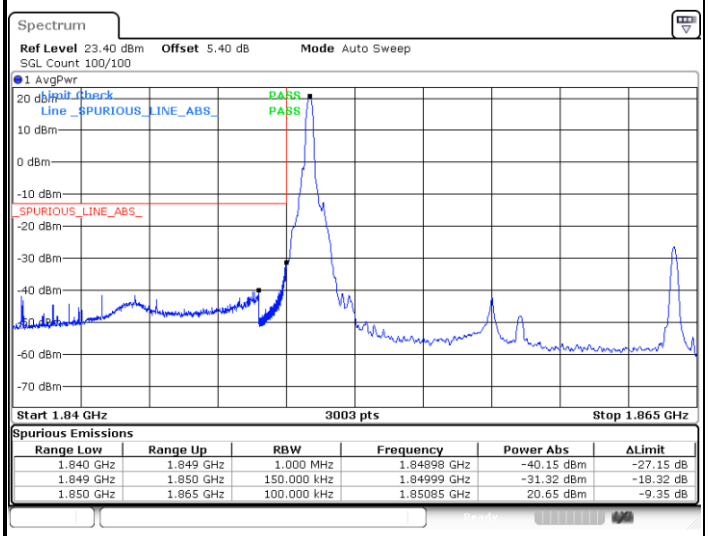
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90141 GHz	3.60 dBm	-26.40 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91005 GHz	-28.84 dBm	-15.84 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91117 GHz	-22.15 dBm	-9.15 dB

Date: 3.JAN.2021 19:06:33

LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

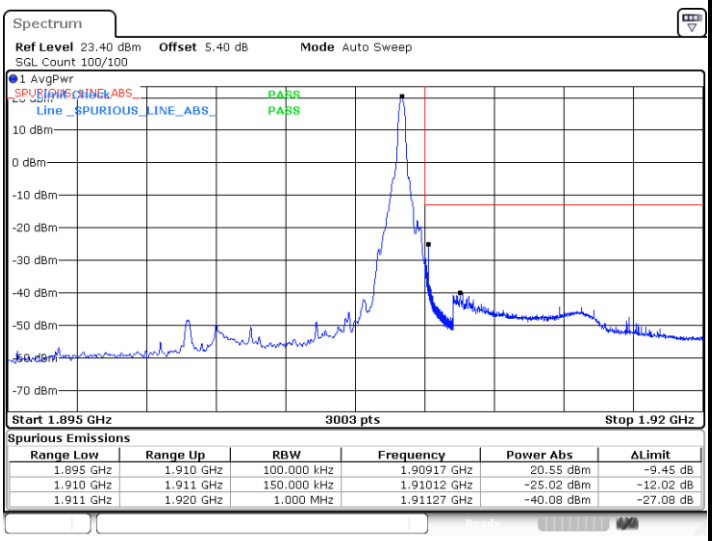


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-40.15 dBm	-27.15 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-31.32 dBm	-18.32 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85085 GHz	20.65 dBm	-9.35 dB

Date: 3.JAN.2021 19:21:23

Highest Band Edge / 1 RB

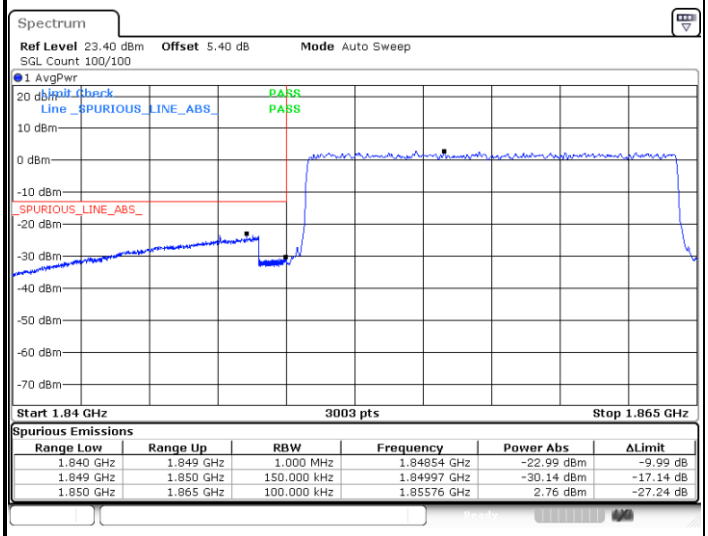


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	20.55 dBm	-9.45 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91012 GHz	-25.02 dBm	-12.02 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91127 GHz	-40.08 dBm	-27.08 dB

Date: 3.JAN.2021 19:24:48

Lowest Band Edge / Full RB

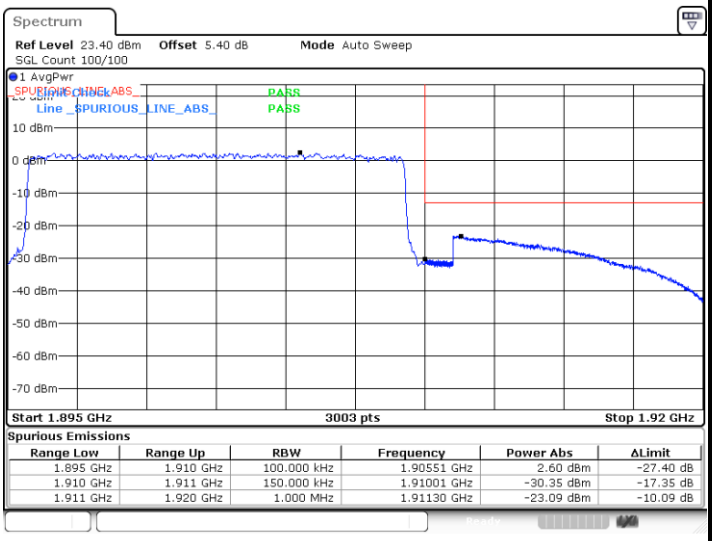


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84854 GHz	-22.99 dBm	-9.99 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84997 GHz	-30.14 dBm	-17.14 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85576 GHz	2.76 dBm	-27.24 dB

Date: 3.JAN.2021 19:22:31

Highest Band Edge / Full RB



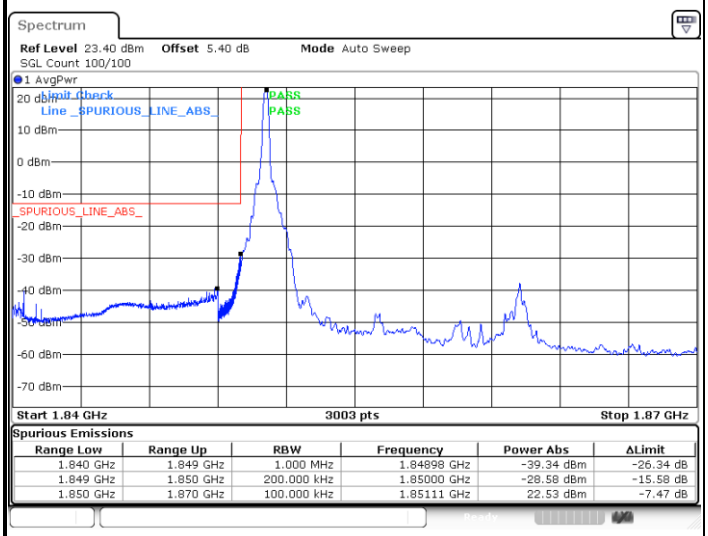
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90551 GHz	2.60 dBm	-27.40 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91001 GHz	-30.35 dBm	-17.35 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91130 GHz	-23.09 dBm	-10.09 dB

Date: 3.JAN.2021 19:23:39

LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB

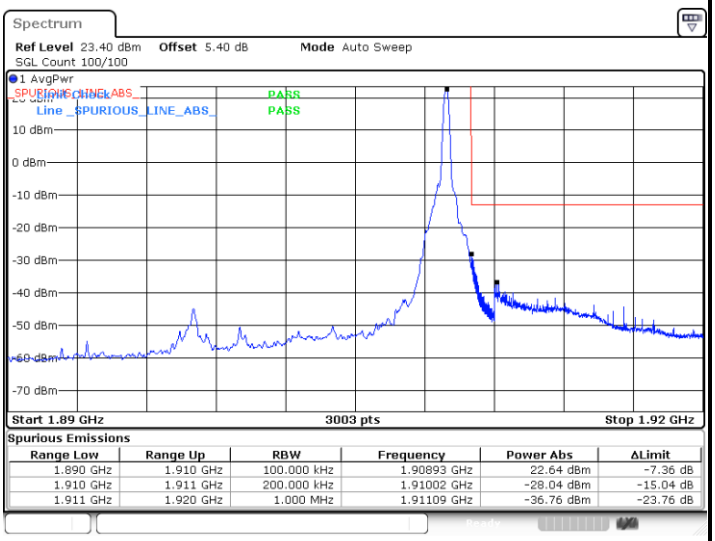


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-39.34 dBm	-26.34 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.85000 GHz	-28.58 dBm	-15.58 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85111 GHz	22.53 dBm	-7.47 dB

Date: 3.JAN.2021 19:07:42

Highest Band Edge / 1 RB

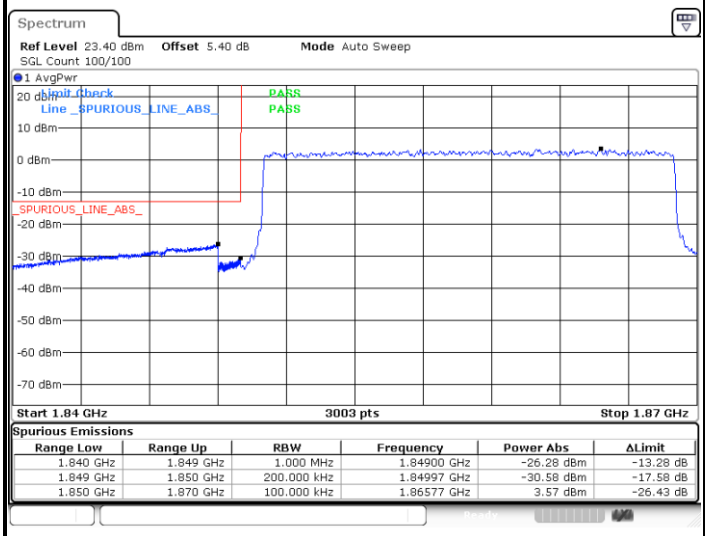


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	22.64 dBm	-7.36 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91002 GHz	-28.04 dBm	-15.04 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-36.76 dBm	-23.76 dB

Date: 3.JAN.2021 19:12:16

Lowest Band Edge / Full RB

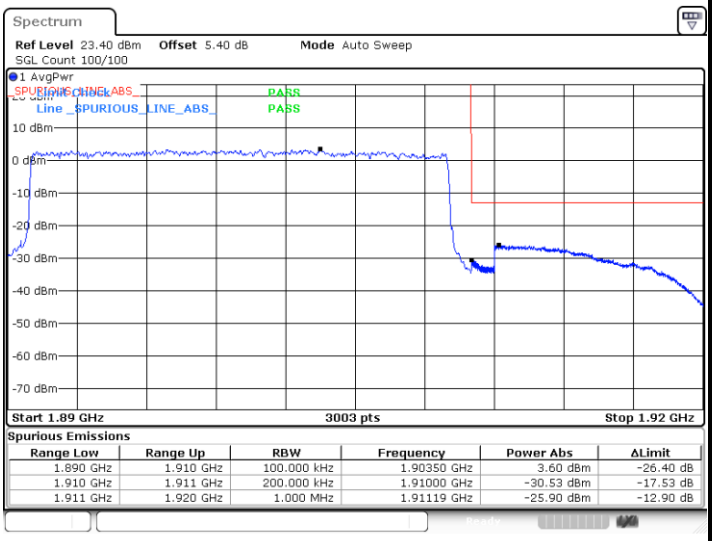


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-26.28 dBm	-13.28 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84997 GHz	-30.58 dBm	-17.58 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86577 GHz	3.57 dBm	-26.43 dB

Date: 3.JAN.2021 19:09:59

Highest Band Edge / Full RB



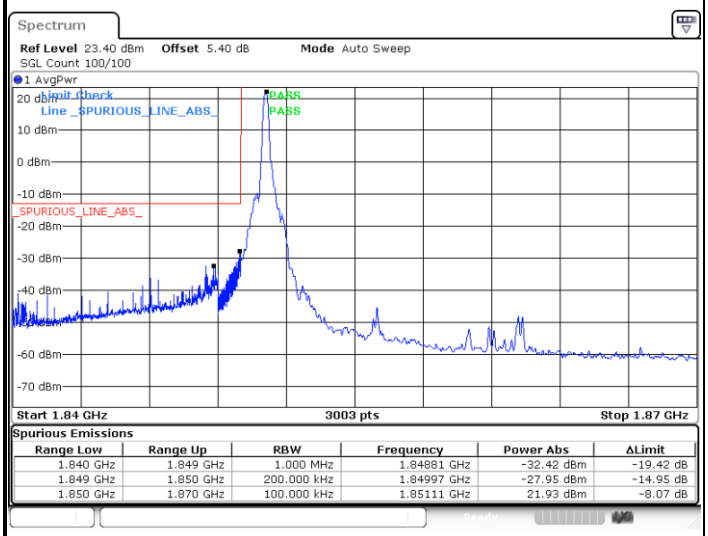
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90350 GHz	3.60 dBm	-26.40 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-30.53 dBm	-17.53 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91119 GHz	-25.90 dBm	-12.90 dB

Date: 3.JAN.2021 19:14:32

LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

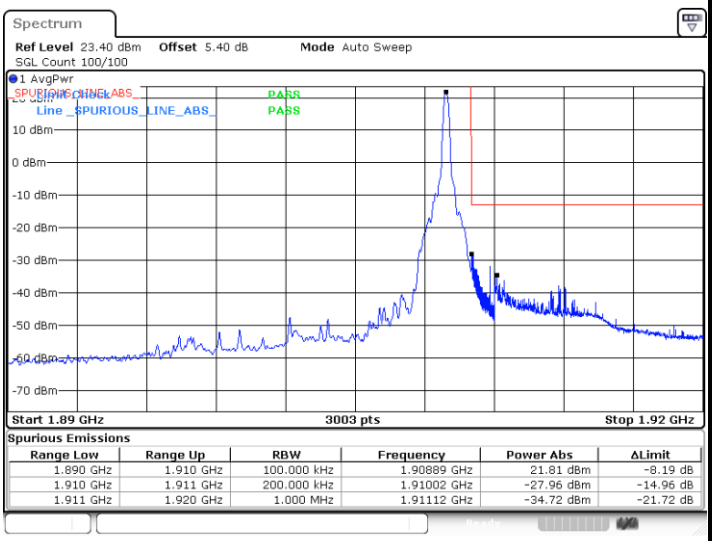


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84881 GHz	-32.42 dBm	-19.42 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84997 GHz	-27.95 dBm	-14.95 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85111 GHz	21.93 dBm	-8.07 dB

Date: 3.JAN.2021 19:08:50

Highest Band Edge / 1 RB

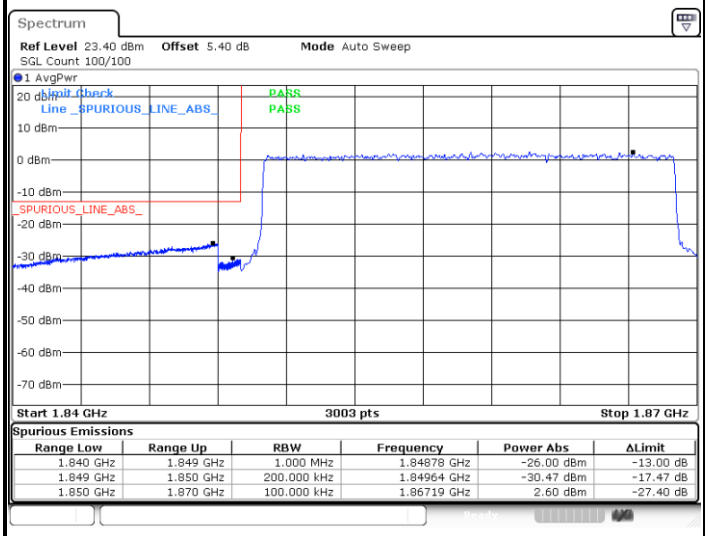


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90889 GHz	21.81 dBm	-8.19 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91002 GHz	-27.96 dBm	-14.96 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91112 GHz	-34.72 dBm	-21.72 dB

Date: 3.JAN.2021 19:13:24

Lowest Band Edge / Full RB

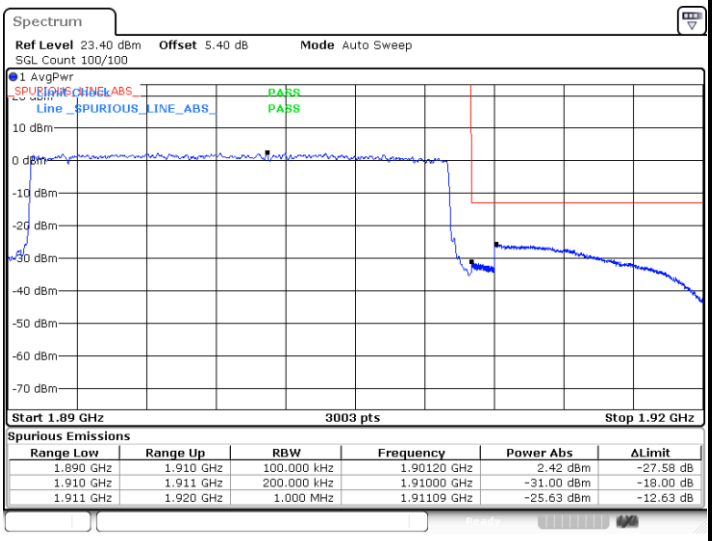


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84878 GHz	-26.00 dBm	-13.00 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84964 GHz	-30.47 dBm	-17.47 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86719 GHz	2.60 dBm	-27.40 dB

Date: 3.JAN.2021 19:11:07

Highest Band Edge / Full RB



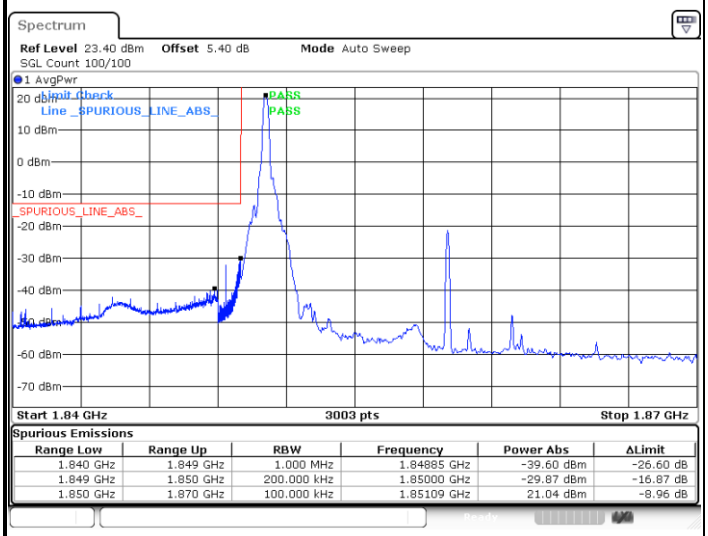
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90120 GHz	2.42 dBm	-27.58 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-31.00 dBm	-18.00 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-25.63 dBm	-12.63 dB

Date: 3.JAN.2021 19:15:41

LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

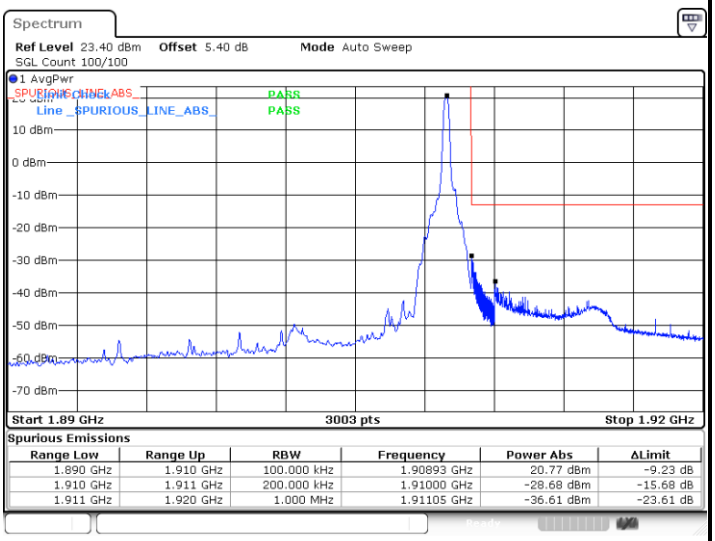


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84885 GHz	-39.60 dBm	-26.60 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.85000 GHz	-29.87 dBm	-16.87 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85109 GHz	21.04 dBm	-8.96 dB

Date: 3.JAN.2021 19:25:56

Highest Band Edge / 1 RB

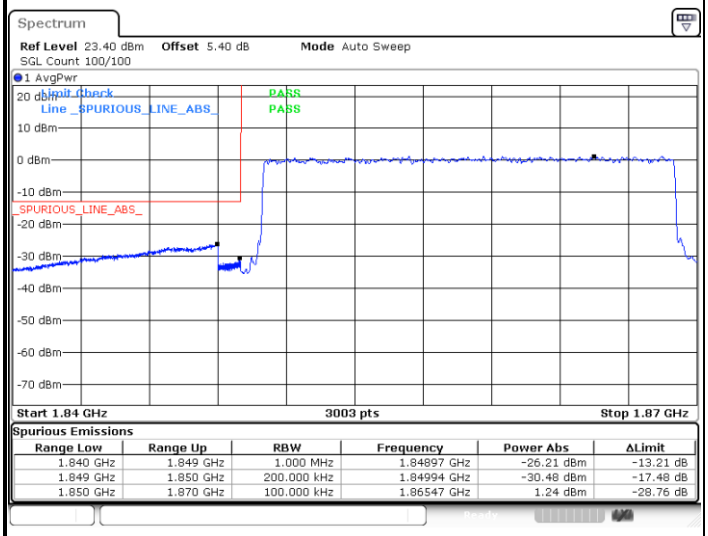


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	20.77 dBm	-9.23 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91000 GHz	-28.68 dBm	-15.68 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91105 GHz	-36.61 dBm	-23.61 dB

Date: 3.JAN.2021 19:29:22

Lowest Band Edge / Full RB

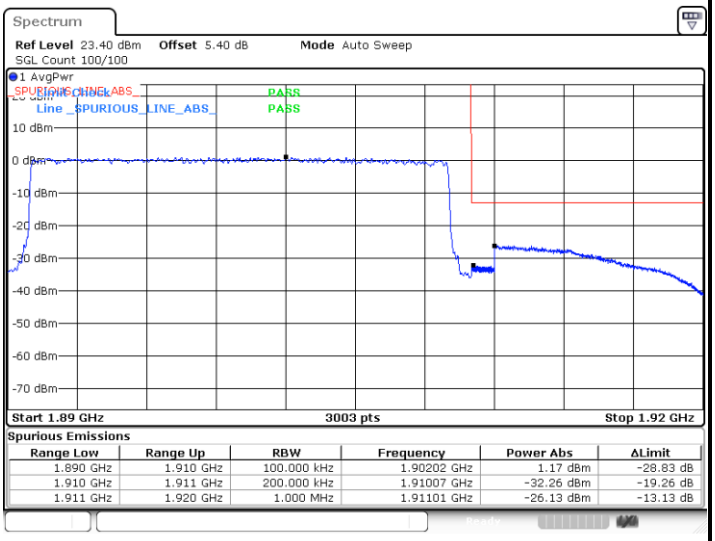


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84897 GHz	-26.21 dBm	-13.21 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84994 GHz	-30.48 dBm	-17.48 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86547 GHz	1.24 dBm	-28.76 dB

Date: 3.JAN.2021 19:27:05

Highest Band Edge / Full RB



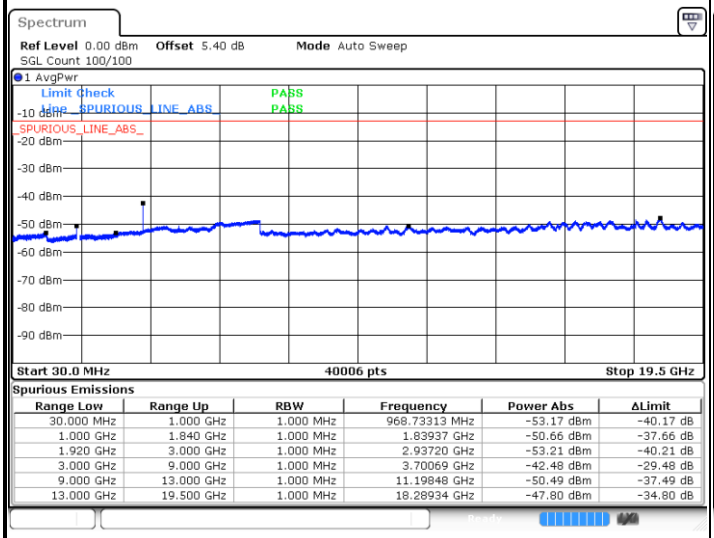
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90202 GHz	1.17 dBm	-28.83 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91007 GHz	-32.26 dBm	-19.26 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-26.13 dBm	-13.13 dB

Date: 3.JAN.2021 19:28:13

Conducted Spurious Emission

LTE Band 2 / 1.4MHz Lowest Channel / QPSK

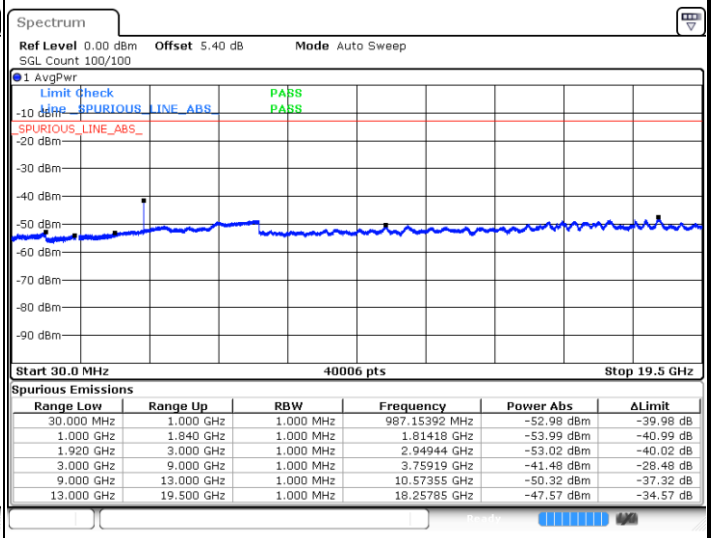


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	968.73313 MHz	-53.17 dBm	-40.17 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83937 GHz	-50.66 dBm	-37.66 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.93720 GHz	-53.21 dBm	-40.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.70069 GHz	-42.48 dBm	-29.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.19848 GHz	-50.49 dBm	-37.49 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.28934 GHz	-47.80 dBm	-34.80 dB

Date: 31.DEC.2020 23:05:06

LTE Band 2 / 1.4MHz Middle Channel / QPSK

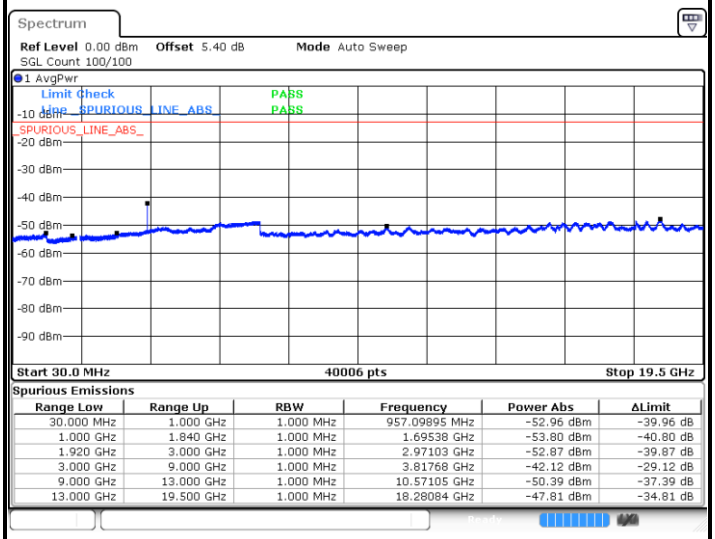


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	987.15392 MHz	-52.98 dBm	-39.98 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.81418 GHz	-53.99 dBm	-40.99 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94944 GHz	-53.02 dBm	-40.02 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.75919 GHz	-41.48 dBm	-28.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57355 GHz	-50.32 dBm	-37.32 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.25785 GHz	-47.57 dBm	-34.57 dB

Date: 31.DEC.2020 23:05:46

LTE Band 2 / 1.4MHz Highest Channel / QPSK

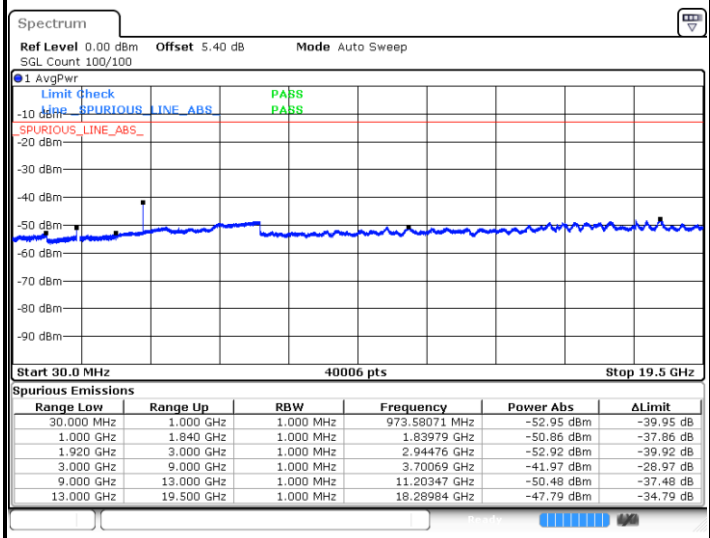


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	957.09895 MHz	-52.96 dBm	-39.96 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.69538 GHz	-53.80 dBm	-40.80 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.97103 GHz	-52.87 dBm	-39.87 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.81768 GHz	-42.12 dBm	-29.12 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57105 GHz	-50.39 dBm	-37.39 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.28084 GHz	-47.81 dBm	-34.81 dB

Date: 31.DEC.2020 23:06:35

LTE Band 2 / 3MHz Lowest Channel / QPSK

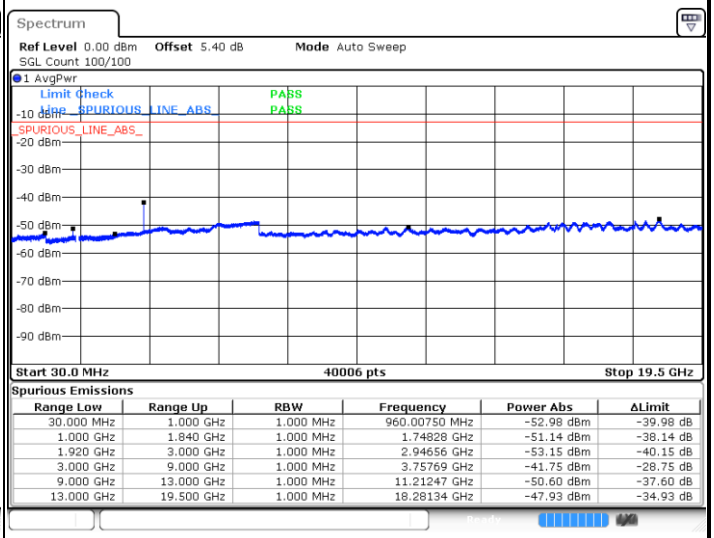


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.58071 MHz	-52.95 dBm	-39.95 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-50.86 dBm	-37.86 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94476 GHz	-52.92 dBm	-39.92 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.70069 GHz	-41.97 dBm	-28.97 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.20347 GHz	-50.48 dBm	-37.48 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.28984 GHz	-47.79 dBm	-34.79 dB

Date: 31.DEC.2020 23:07:16

LTE Band 2 / 3MHz Middle Channel / QPSK

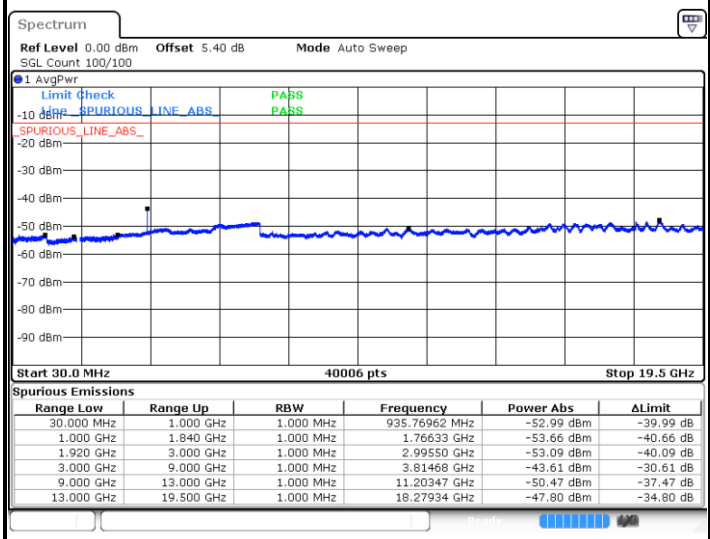


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.00750 MHz	-52.98 dBm	-39.98 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.74828 GHz	-51.14 dBm	-38.14 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94656 GHz	-53.15 dBm	-40.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.75769 GHz	-41.75 dBm	-28.75 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.21247 GHz	-50.60 dBm	-37.60 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.28134 GHz	-47.93 dBm	-34.93 dB

Date: 31.DEC.2020 23:08:02

LTE Band 2 / 3MHz Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.76962 MHz	-52.99 dBm	-39.99 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76633 GHz	-53.66 dBm	-40.66 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.99550 GHz	-53.09 dBm	-40.09 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.81468 GHz	-43.61 dBm	-30.61 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.20347 GHz	-50.47 dBm	-37.47 dB
13.000 GHz	19.500 GHz	1.000 MHz	18.27934 GHz	-47.80 dBm	-34.80 dB

Date: 31.DEC.2020 23:08:44