FCC RF Test Report

APPLICANT	:	**FairPhone B.V.**
EQUIPMENT	:	**Fairphone 4 5G**
BRAND NAME	:	**FAIRPHONE**
MODEL NAME	:	**FP4**
FCC ID	:	**2AUWUFP4**
STANDARD	:	**47 CFR Part 2, 22(H), 24(E), 27(L) , 27(H) , 27(M) , 27(N)**
CLASSIFICATION	:	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	:	**Mar. 01, 2022 ~ Mar. 16, 2022**

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alexwang

Approved by: Alex Wang / Manager

ACCREDITED
Cert #5145.02

Sporton International Inc. (Kunshan)

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

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APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG152403-02B	Rev. 01	Initial issue of report	Apr. 08, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 71)	ERP < 3 Watt		-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
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 71)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
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 71)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	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 71)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 26.58 dB at 7752.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		

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

FairPhone B.V.
Van Diemenstraat 200, 1013 CP, Amsterdam, The Netherlands

1.2 Manufacturer

FairPhone B.V.
Van Diemenstraat 200, 1013 CP, Amsterdam, The Netherlands

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Fairphone 4 5G
Brand Name	FAIRPHONE
Model Name	FP4
FCC ID	2AUWUFP4
HW Version	1.0
SW Version	FP4.FC1G.A.017-userdebug.20210804
EUT Stage	Identical Prototype

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 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 663 MHz ~ 698 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 7 : 2620 MHz ~ 2690 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 71: 617 MHz ~ 652 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 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz

	LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**<Ant 0>** LTE Band 5 : 24.05 dBm LTE Band 12 : 24.12 dBm LTE Band 71 : 24.02 dBm **<Ant 1>** LTE Band 7 : 23.49 dBm LTE Band 38 : 23.72 dBm LTE Band 41 : 23.75 dBm **<Ant 3>** LTE Band 2 : 22.88 dBm LTE Band 4 : 22.86 dBm
Antenna Gain	**<Ant 0>** LTE Band 5 : -2.55 dBi LTE Band 12 : -4.84 dBi LTE Band 71 : -5.53 dBi **<Ant 1>** LTE Band 7 : -0.67 dBi LTE Band 38 : -0.3 dBi LTE Band 41 : -0.3 dBi **<Ant 3>** LTE Band 2 : -1.79 dBi LTE Band 4 : -2.22 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
20	1860.0 ~ 1900.0	0.1285	18M4G7D	0.1064	18M4W7D
LTE Band 4		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20	1720.0 ~ 1745.0	0.1159	17M9G7D	0.0966	17M9W7D
LTE Band 5		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
10	829.0 ~ 844.0	0.0861	9M03G7D	0.0745	8M99W7D
LTE Band 7		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20	2510.0 ~ 2560.0	0.1914	18M4G7D	0.1517	18M3W7D
LTE Band 12		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
10	704.0 ~ 711.0	0.0516	9M07G7D	0.0424	9M01W7D
LTE Band 38		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20	2580.0 ~ 2610.0	0.2198	17M9G7D	0.1750	17M8W7D
LTE Band 41		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
20	2506.0 ~ 2680.0	0.2213	17M9G7D	0.1738	17M8W7D
LTE Band 71		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
20	673.0 ~ 688.0	0.0431	17M9G7D	0.0357	17M8W7D

Note:LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

1.7 Testing Location

<FCC>-KS

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

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

1.8 Test Software

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

1.9 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) , 27(M) , 27(N)
- 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.

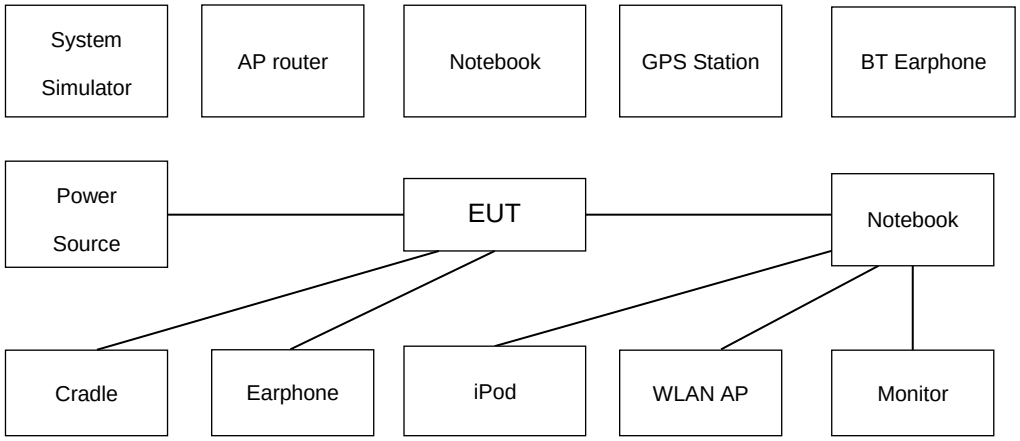
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and accessory configurations. The worst-cases (Y Plane with adapter) were recorded in this report.

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
	4	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
	7	-	-	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
	38	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v			v		v	
	4						v	v	v	v			v		v	
	5				v	-	-	v	v	v			v		v	
	7	-	-				v	v	v	v			v		v	
	12				v	-	-	v	v	v			v		v	
	41	-	-				v	v	v	v			v		v	
	71	-	-				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
26dB and 99% Bandwidth	2						v	v	v				v		v	
	4						v	v	v				v		v	
	5				v	-	-	v	v				v		v	
	7	-	-				v	v	v				v		v	
	12				v	-	-	v	v				v		v	
	41	-	-				v	v	v				v		v	
	71	-	-				v	v	v				v		v	
Conducted Band Edge	2	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
	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	7	-	-	v	v	v	v	v			v			v	v	v
	12	v	v	v	v	-	-	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
	71	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	41	-	-		v			v					v		v	
	71	-	-		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	v
	4	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
	7	-	-	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
	41	-	-	v	v	v	v	v	v	v	v		v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	4	Worst Case													v	
	5	Worst Case													v	
	7	Worst Case													v	
	12	Worst Case													v	
	41	Worst Case													v	
	71	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 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.															

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 5.40 dB.

Example :

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

= 5.40 (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 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

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 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

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

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

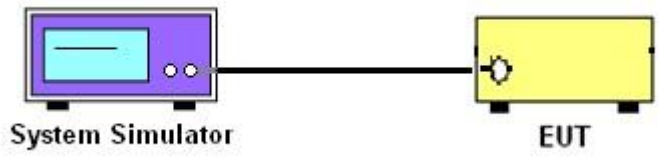
3 Conducted Test Items

3.1 Measuring Instruments

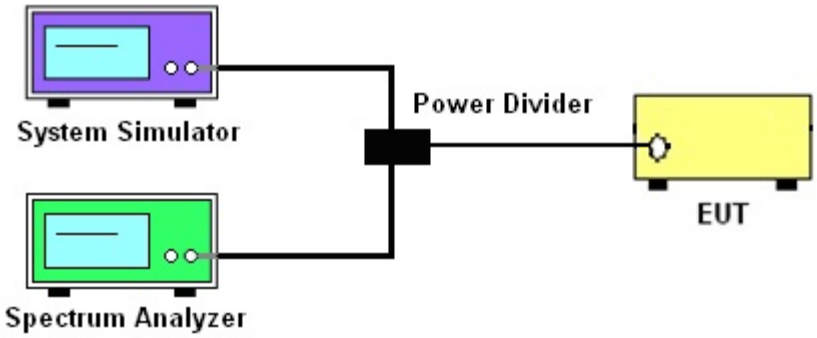
See list of measuring instruments of this test report.

3.2 Test Setup

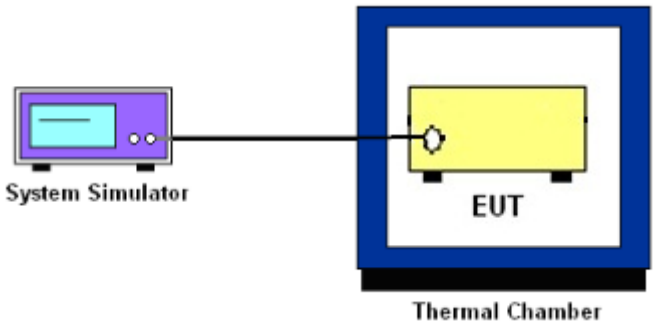
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and 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 71.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 7 and Band 38 and Band 41.

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

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.

27.53(m)(4)

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

adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 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.
11. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

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

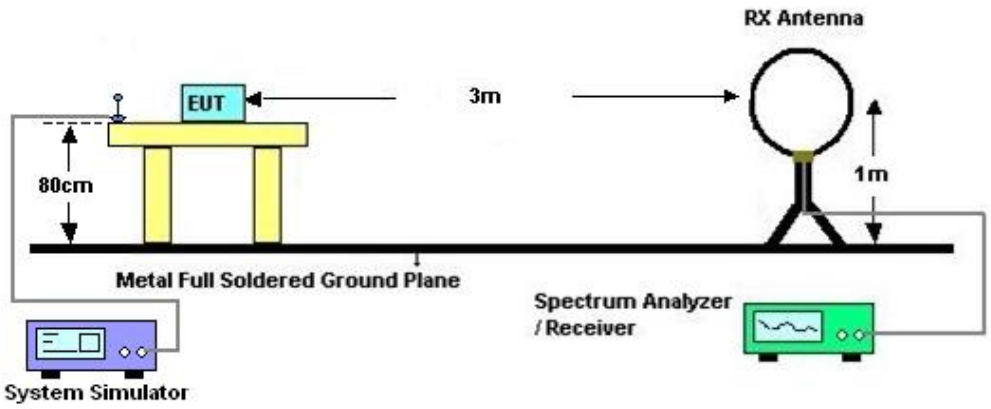
4 Radiated Test Items

4.1 Measuring Instruments

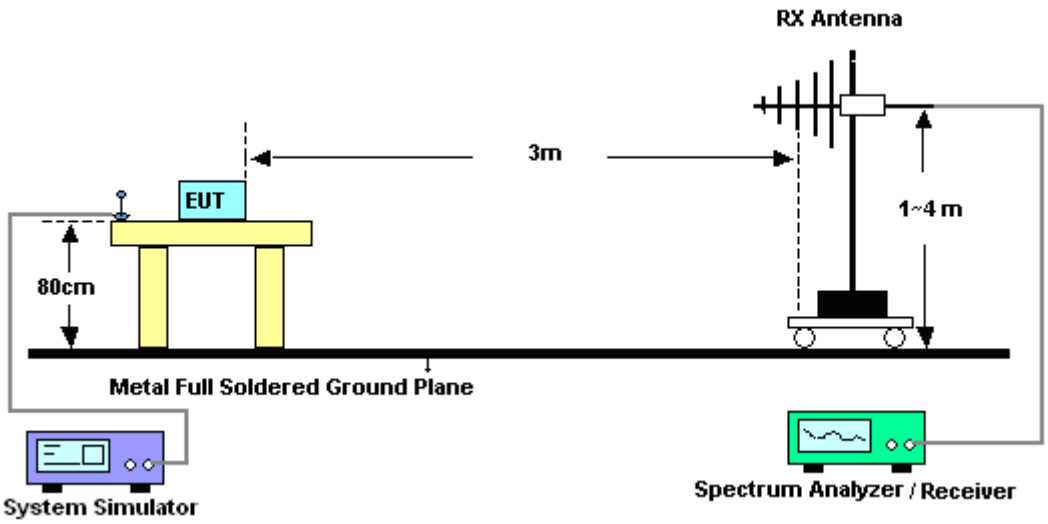
See list of measuring instruments of this test report.

4.2 Test Setup

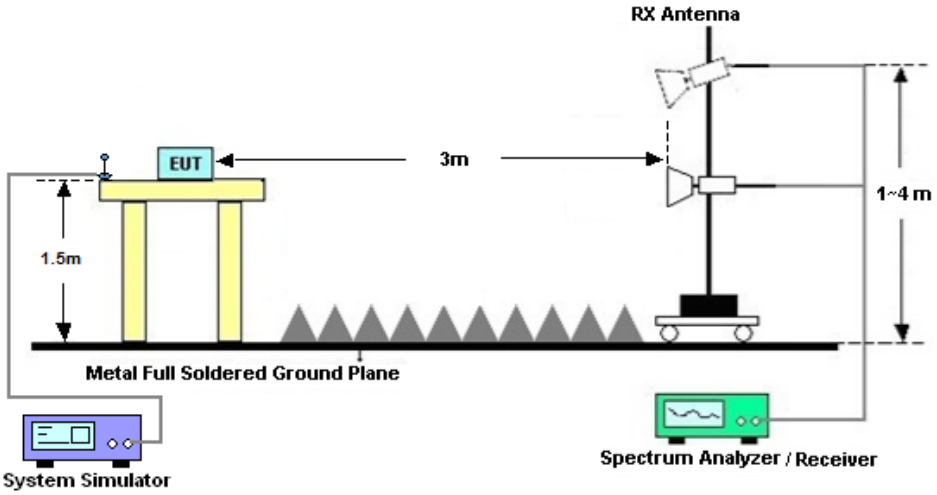
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7, 38, 41

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 7, 38, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Mar. 01, 2022~ Mar. 03, 2022	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Mar. 01, 2022~ Mar. 03, 2022	Aug. 25, 2022	Conducted (TH01-KS)
Temperature &humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Mar. 01, 2022~ Mar. 03, 2022	Jul. 11, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Mar. 16, 2022	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Mar. 16, 2022	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Mar. 16, 2022	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Mar. 16, 2022	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Mar. 16, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 05, 2022	Mar. 16, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Mar. 16, 2022	Jan. 04, 2023	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Mar. 16, 2022	Jul. 29, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Mar. 16, 2022	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 16, 2022	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 16, 2022	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 16, 2022	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

Test Engineer :	Simle Wang	Temperature :	22~23℃
		Relative Humidity :	40~42%

Conducted Output Power(Average power)and ERP/EIRP

LTE Band 2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				18700	18900	19100			
Frequency (MHz)				1860	1880	1900	L	M	H
20	QPSK	1	0	22.73	22.88	22.69	0.1242	0.1285	0.1230
20	QPSK	1	99	22.70	22.74	22.60	0.1233	0.1245	0.1205
20	QPSK	100	0	21.64	21.78	21.63	0.0966	0.0998	0.0964
20	16QAM	1	0	21.97	22.06	22.01	0.1042	0.1064	0.1052
20	64QAM	1	0	20.87	20.92	20.79	0.0809	0.0818	0.0794
Channel				18675	18900	19125	EIRP(W)		
Frequency (MHz)				1857.5	1880	1902.5	L	M	H
15	QPSK	1	0	22.70	22.84	22.62	0.1233	0.1274	0.1211
15	16QAM	1	0	21.86	22.01	21.92	0.1016	0.1052	0.1030
Channel				18650	18900	19150	EIRP(W)		
Frequency (MHz)				1855	1880	1905	L	M	H
10	QPSK	1	0	22.66	22.80	22.61	0.1222	0.1262	0.1208
10	16QAM	1	0	21.87	22.03	21.94	0.1019	0.1057	0.1035
Channel				18625	18900	19175	EIRP(W)		
Frequency (MHz)				1852.5	1880	1907.5	L	M	H
5	QPSK	1	0	22.63	22.75	22.55	0.1213	0.1247	0.1191
5	16QAM	1	0	21.87	22.03	21.95	0.1019	0.1057	0.1038
Channel				18615	18900	19185	EIRP(W)		
Frequency (MHz)				1851.5	1880	1908.5	L	M	H
3	QPSK	1	0	22.70	22.78	22.66	0.1233	0.1256	0.1222
3	16QAM	1	0	21.89	21.96	21.91	0.1023	0.1040	0.1028
Channel				18607	18900	19193	EIRP(W)		
Frequency (MHz)				1850.7	1880	1909.3	L	M	H
1.4	QPSK	1	0	22.63	22.84	22.60	0.1213	0.1274	0.1205
1.4	16QAM	1	0	21.87	22.01	21.91	0.1019	0.1052	0.1028

LTE Band 4

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20050	20175	20300			
Frequency (MHz)				1720	1732.5	1745	L	M	H
20	QPSK	1	0	22.73	22.86	22.79	0.1125	0.1159	0.1140
20	QPSK	1	99	22.72	22.81	22.76	0.1122	0.1146	0.1132
20	QPSK	100	0	21.78	21.88	21.83	0.0904	0.0925	0.0914
20	16QAM	1	0	22.03	22.07	22.04	0.0957	0.0966	0.0959
20	64QAM	1	0	20.92	21.05	20.97	0.0741	0.0764	0.0750
Channel				20025	20175	20325	EIRP(W)		
Frequency (MHz)				1717.5	1732.5	1747.5	L	M	H
15	QPSK	1	0	22.60	22.78	22.72	0.1091	0.1138	0.1122
15	16QAM	1	0	21.97	21.94	21.98	0.0944	0.0938	0.0946
Channel				20000	20175	20350	EIRP(W)		
Frequency (MHz)				1715	1732.5	1750	L	M	H
10	QPSK	1	0	22.58	22.79	22.71	0.1086	0.1140	0.1119
10	16QAM	1	0	21.93	22.00	21.96	0.0935	0.0951	0.0942
Channel				19975	20175	20375	EIRP(W)		
Frequency (MHz)				1712.5	1732.5	1752.5	L	M	H
5	QPSK	1	0	22.68	22.72	22.66	0.1112	0.1122	0.1107
5	16QAM	1	0	21.98	22.01	21.95	0.0946	0.0953	0.0940
Channel				19965	20175	20385	EIRP(W)		
Frequency (MHz)				1711.5	1732.5	1753.5	L	M	H
3	QPSK	1	0	22.63	22.82	22.72	0.1099	0.1148	0.1122
3	16QAM	1	0	21.85	21.98	21.82	0.0918	0.0946	0.0912
Channel				19950	20175	20393	EIRP(W)		
Frequency (MHz)				1710	1732.5	1754.3	L	M	H
1.4	QPSK	1	0	22.69	22.77	22.69	0.1114	0.1135	0.1114
1.4	16QAM	1	0	21.99	21.97	21.94	0.0948	0.0944	0.0938

LTE Band 5

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844	L	M	H
10	QPSK	1	0	23.91	24.05	24.01	0.0834	0.0861	0.0853
10	QPSK	1	49	23.85	23.96	23.93	0.0822	0.0843	0.0838
10	QPSK	50	0	23.09	23.18	23.15	0.0690	0.0705	0.0700
10	16QAM	1	0	23.31	23.42	23.30	0.0726	0.0745	0.0724
10	64QAM	1	0	22.25	22.31	22.17	0.0569	0.0577	0.0558
Channel				20425	20525	20625	ERP(W)		
Frequency (MHz)				826.5	836.5	846.5	L	M	H
5	QPSK	1	0	23.84	23.95	23.90	0.0820	0.0841	0.0832
5	16QAM	1	0	23.18	23.31	23.19	0.0705	0.0726	0.0706
Channel				20415	20525	20635	ERP(W)		
Frequency (MHz)				825.5	836.5	847.5	L	M	H
3	QPSK	1	0	23.90	23.98	23.91	0.0832	0.0847	0.0834
3	16QAM	1	0	23.28	23.34	23.27	0.0721	0.0731	0.0719
Channel				20407	20525	20643	ERP(W)		
Frequency (MHz)				824.7	836.5	848.3	L	M	H
1.4	QPSK	1	0	23.92	24.01	24.01	0.0836	0.0853	0.0853
1.4	16QAM	1	0	23.24	23.28	23.21	0.0714	0.0721	0.0710

LTE Band 7

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	23.44	23.49	23.35	0.1892	0.1914	0.1854
20	QPSK	1	99	23.39	23.46	23.37	0.1871	0.1901	0.1862
20	QPSK	100	0	22.41	22.49	22.37	0.1493	0.1521	0.1479
20	16QAM	1	0	22.41	22.48	22.40	0.1493	0.1517	0.1489
20	64QAM	1	0	21.39	21.50	21.41	0.1180	0.1211	0.1186
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	23.37	23.43	23.24	0.1862	0.1888	0.1807
15	16QAM	1	0	22.36	22.39	22.34	0.1476	0.1486	0.1469
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.33	23.34	23.24	0.1845	0.1849	0.1807
10	16QAM	1	0	22.29	22.37	22.37	0.1452	0.1479	0.1479
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	23.32	23.41	23.26	0.1841	0.1879	0.1816
5	16QAM	1	0	22.33	22.43	22.33	0.1466	0.1500	0.1466

LTE Band 12

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23060	23095	23130			
Frequency (MHz)				704	707.5	711	L	M	H
10	QPSK	1	0	24.08	24.12	24.01	0.0512	0.0516	0.0504
10	QPSK	1	49	24.01	24.09	23.97	0.0504	0.0513	0.0499
10	QPSK	50	0	22.87	22.94	22.89	0.0387	0.0394	0.0389
10	16QAM	1	0	23.16	23.26	23.13	0.0414	0.0424	0.0411
10	64QAM	1	0	22.16	22.23	22.19	0.0329	0.0334	0.0331
Channel				23035	23095	23205	ERP(W)		
Frequency (MHz)				701.5	707.5	718.5	L	M	H
5	QPSK	1	0	23.84	24.02	23.93	0.0484	0.0505	0.0494
5	16QAM	1	0	23.09	23.18	23.05	0.0407	0.0416	0.0404
Channel				23025	23095	23195	ERP(W)		
Frequency (MHz)				700.5	707.5	717.5	L	M	H
3	QPSK	1	0	23.86	24.03	23.91	0.0486	0.0506	0.0492
3	16QAM	1	0	23.13	23.23	23.07	0.0411	0.0421	0.0406
Channel				23017	23095	23173	ERP(W)		
Frequency (MHz)				699.7	707.5	715.3	L	M	H
1.4	QPSK	1	0	24.01	23.99	23.95	0.0504	0.0501	0.0497
1.4	16QAM	1	0	23.12	23.13	22.98	0.0410	0.0411	0.0397

LTE Band 38

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	23.68	23.72	23.58	0.2178	0.2198	0.2128
20	QPSK	1	99	23.44	23.52	23.41	0.2061	0.2099	0.2046
20	QPSK	100	0	22.53	22.60	22.46	0.1671	0.1698	0.1644
20	16QAM	1	0	22.60	22.73	22.64	0.1698	0.1750	0.1714
20	64QAM	1	0	21.71	21.74	21.68	0.1384	0.1393	0.1374
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	23.60	23.66	23.54	0.2138	0.2168	0.2109
15	16QAM	1	0	22.50	22.61	22.58	0.1660	0.1702	0.1690
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	23.61	23.63	23.49	0.2143	0.2153	0.2084
10	16QAM	1	0	22.50	22.68	22.55	0.1660	0.1730	0.1679
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	23.59	23.60	23.49	0.2133	0.2138	0.2084
5	16QAM	1	0	22.50	22.67	22.59	0.1660	0.1726	0.1694

LTE Band 41

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	23.34	23.75	23.67	0.2014	0.2213	0.2173
20	QPSK	1	99	23.33	23.46	23.35	0.2009	0.2070	0.2018
20	QPSK	100	0	22.63	22.74	22.64	0.1710	0.1754	0.1714
20	16QAM	1	0	22.56	22.70	22.63	0.1683	0.1738	0.1710
20	64QAM	1	0	21.60	21.67	21.56	0.1349	0.1371	0.1337
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	23.20	23.67	23.54	0.1950	0.2173	0.2109
15	16QAM	1	0	22.48	22.60	22.49	0.1652	0.1698	0.1656
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	23.20	23.69	23.58	0.1950	0.2183	0.2128
10	16QAM	1	0	22.44	22.55	22.55	0.1637	0.1679	0.1679
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	23.27	23.64	23.54	0.1982	0.2158	0.2109
5	16QAM	1	0	22.48	22.62	22.57	0.1652	0.1706	0.1687

LTE Band 71

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				133222	133322	133372			
Frequency (MHz)				673	683	688	L	M	H
20	QPSK	1	0	23.96	24.02	23.88	0.0425	0.0431	0.0417
20	QPSK	1	99	23.74	23.89	23.76	0.0404	0.0418	0.0406
20	QPSK	100	0	22.92	22.99	22.94	0.0334	0.0340	0.0336
20	16QAM	1	0	23.08	23.21	23.18	0.0347	0.0357	0.0355
20	64QAM	1	0	21.99	22.09	22.05	0.0270	0.0276	0.0274
Channel				133197	133297	133397	EIRP(W)		
Frequency (MHz)				670.5	680.5	690.5	L	M	H
15	QPSK	1	0	23.85	23.96	23.83	0.0414	0.0425	0.0412
15	16QAM	1	0	23.00	23.13	23.10	0.0340	0.0351	0.0348
Channel				133172	133272	133422	EIRP(W)		
Frequency (MHz)				668	678	693	L	M	H
10	QPSK	1	0	23.93	23.92	23.77	0.0422	0.0421	0.0406
10	16QAM	1	0	23.03	23.13	23.01	0.0343	0.0351	0.0341
Channel				133147	133247	133447	EIRP(W)		
Frequency (MHz)				665.5	675.5	695.5	L	M	H
5	QPSK	1	0	23.89	23.90	23.82	0.0418	0.0419	0.0411
5	16QAM	1	0	22.95	23.13	23.03	0.0337	0.0351	0.0343

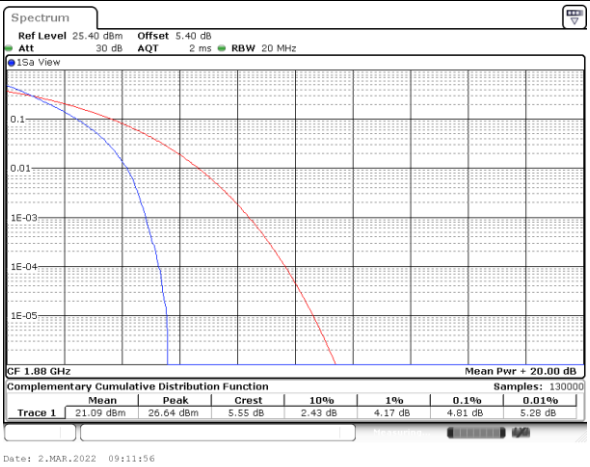
LTE Band 2

Peak-to-Average Ratio

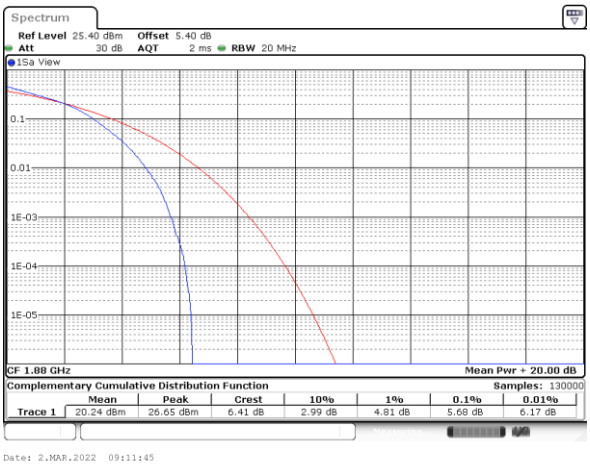
Mode	LTE Band 2 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.68	5.68	PASS

LTE Band 2 / 20MHz

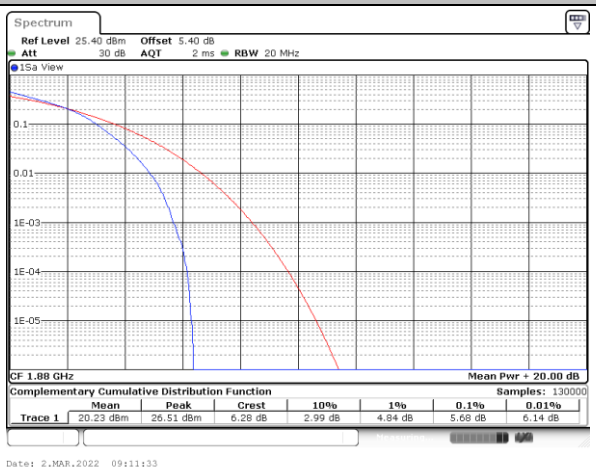
Middle Channel / Full RB/ QPSK



Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM

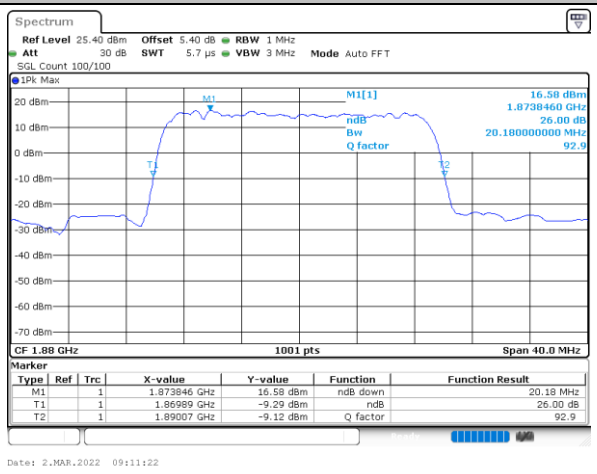


26dB Bandwidth

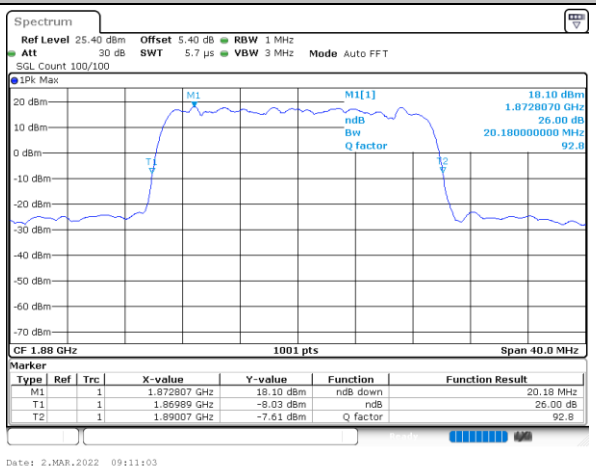
Mode	LTE Band 2 : 26dB BW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	20.18	20.18

LTE Band 2

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

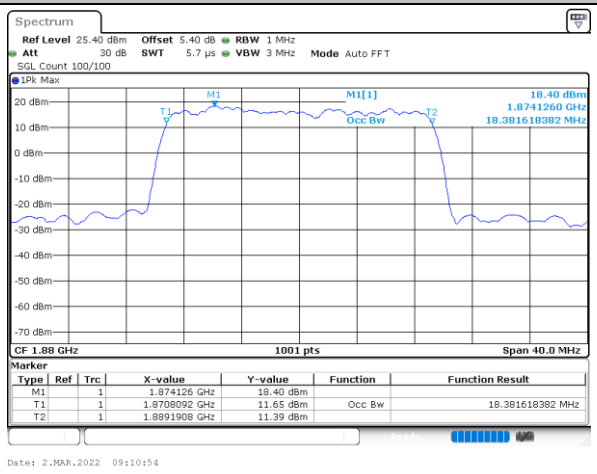


Occupied Bandwidth

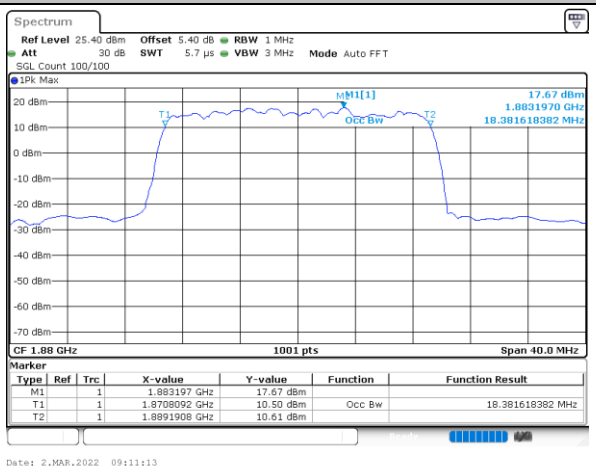
Mode	LTE Band 2 : 99%OBW(MHz)	
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	18.38	18.38

LTE Band 2

Middle Channel / 20MHz / QPSK



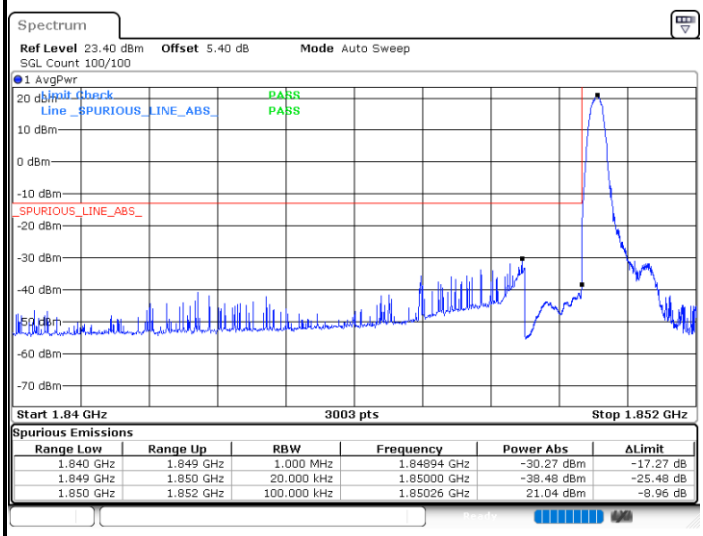
Middle Channel / 20MHz / 16QAM



Conducted Band Edge

LTE Band 2 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

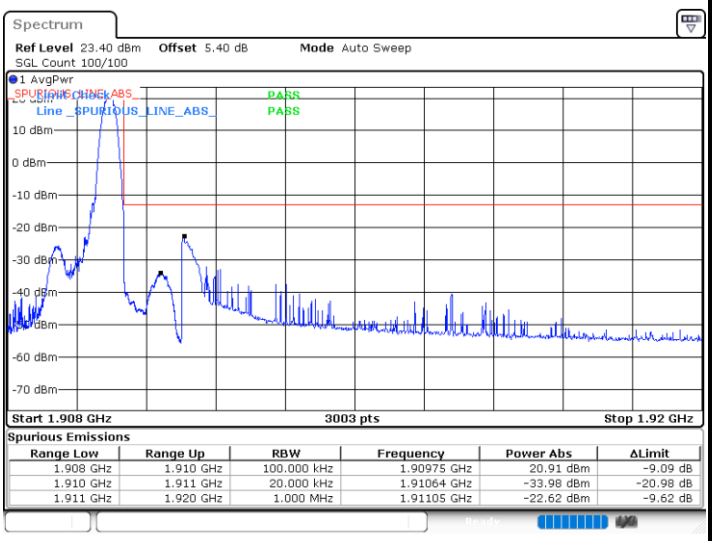


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84894 GHz	-30.27 dBm	-17.27 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-38.48 dBm	-25.48 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85026 GHz	21.04 dBm	-8.96 dB

Date: 2.MAR.2022 07:59:16

Highest Band Edge / 1RB

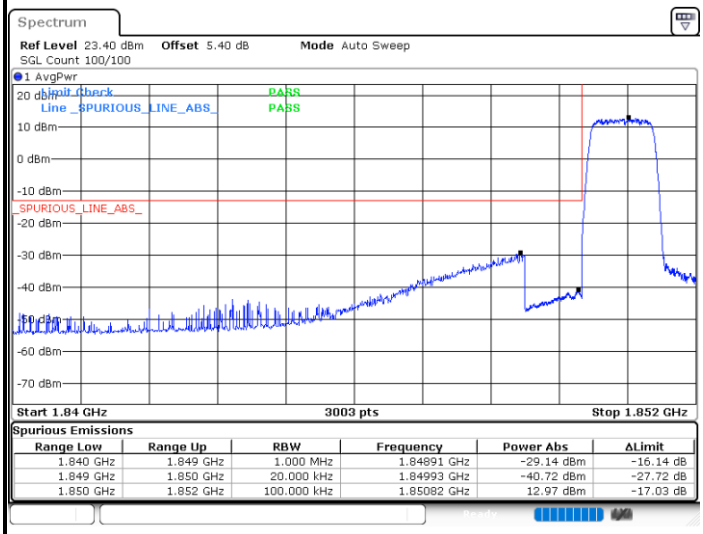


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90975 GHz	20.91 dBm	-9.09 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91064 GHz	-33.98 dBm	-20.98 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91105 GHz	-22.62 dBm	-9.62 dB

Date: 2.MAR.2022 08:12:21

Lowest Band Edge / Full RB

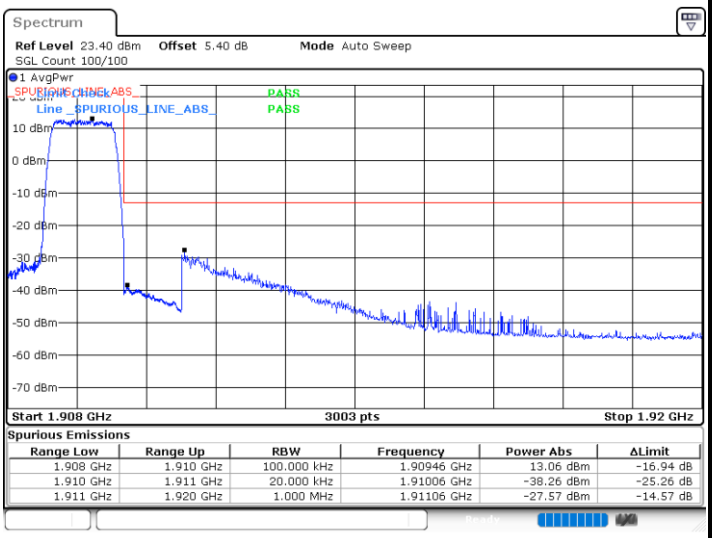


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-29.14 dBm	-16.14 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84993 GHz	-40.72 dBm	-27.72 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85082 GHz	12.97 dBm	-17.03 dB

Date: 2.MAR.2022 08:08:09

Highest Band Edge / Full RB



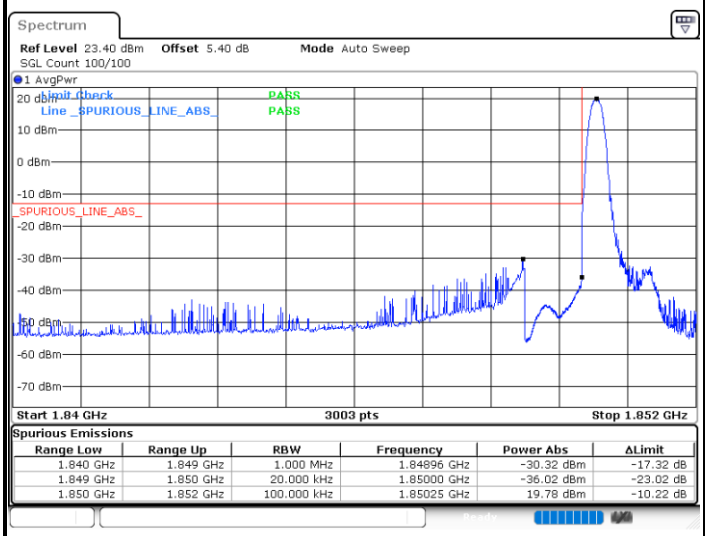
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90946 GHz	13.06 dBm	-16.94 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91006 GHz	-38.26 dBm	-25.26 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-27.57 dBm	-14.57 dB

Date: 2.MAR.2022 08:32:39

LTE Band 2 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

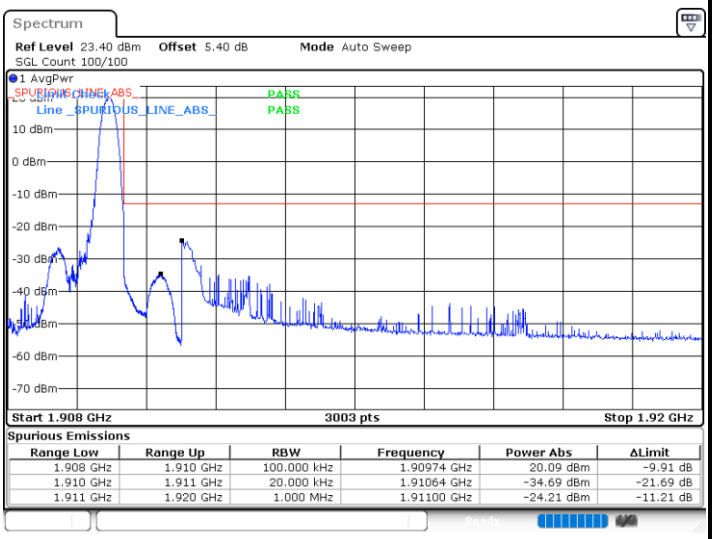


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84896 GHz	-30.32 dBm	-17.32 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-36.02 dBm	-23.02 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85025 GHz	19.78 dBm	-10.22 dB

Date: 2.MAR.2022 08:00:35

Highest Band Edge / 1 RB

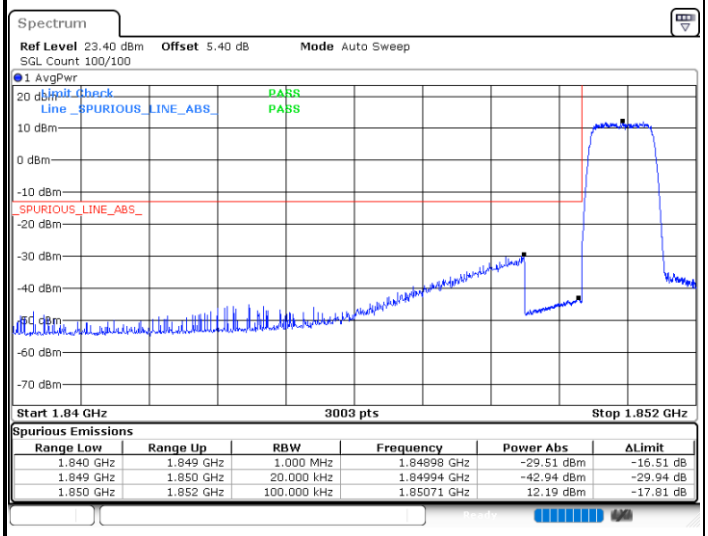


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90974 GHz	20.09 dBm	-9.91 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91064 GHz	-34.69 dBm	-21.69 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-24.21 dBm	-11.21 dB

Date: 2.MAR.2022 08:13:29

Lowest Band Edge / Full RB

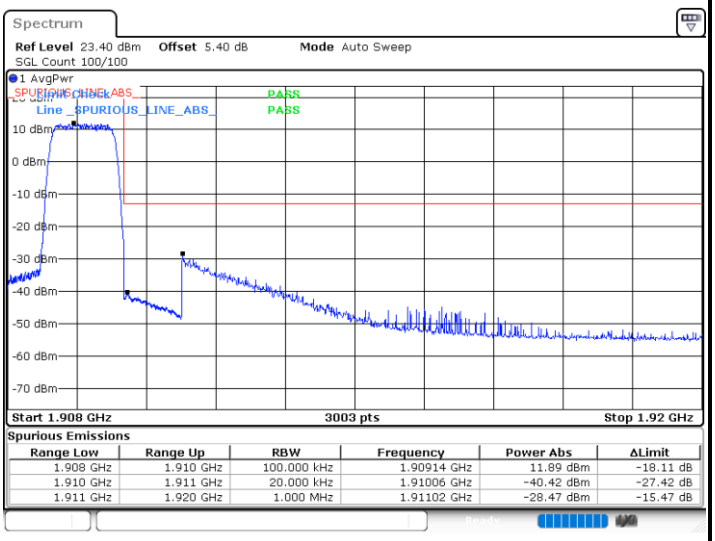


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-29.51 dBm	-16.51 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84994 GHz	-42.94 dBm	-29.94 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85071 GHz	12.19 dBm	-17.81 dB

Date: 2.MAR.2022 08:07:01

Highest Band Edge / Full RB



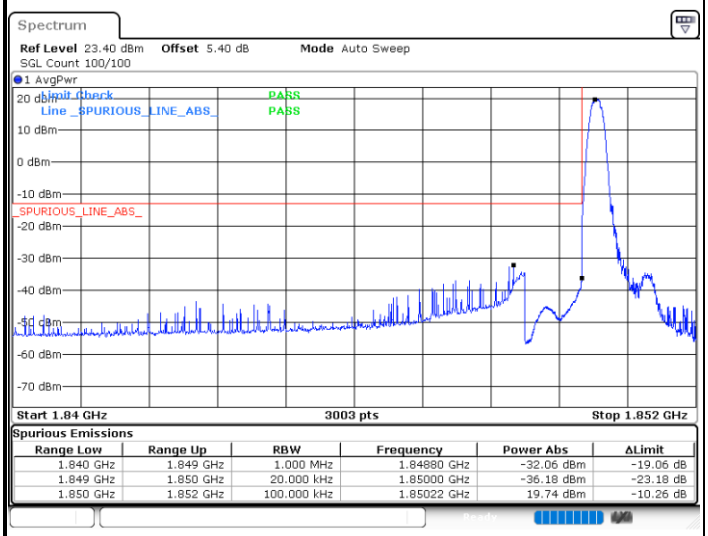
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90914 GHz	11.89 dBm	-18.11 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91006 GHz	-40.42 dBm	-27.42 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-28.47 dBm	-15.47 dB

Date: 2.MAR.2022 08:31:36

LTE Band 2 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

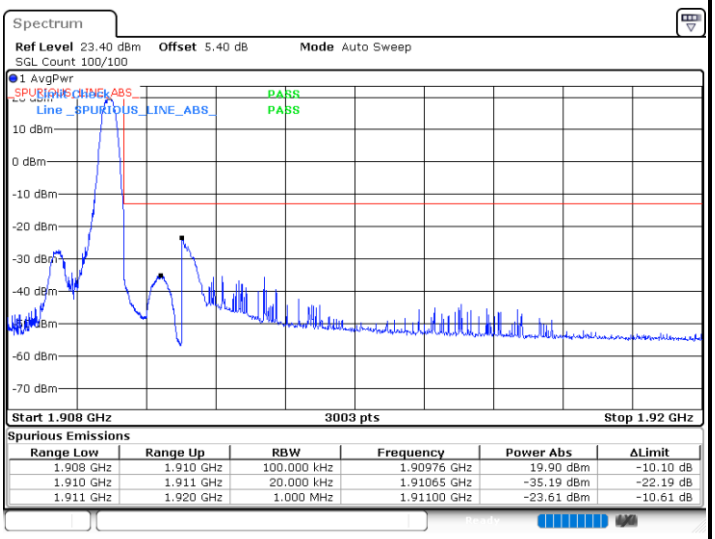


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84880 GHz	-32.06 dBm	-19.06 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.85000 GHz	-36.18 dBm	-23.18 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85022 GHz	19.74 dBm	-10.26 dB

Date: 2.MAR.2022 08:01:43

Highest Band Edge / 1 RB

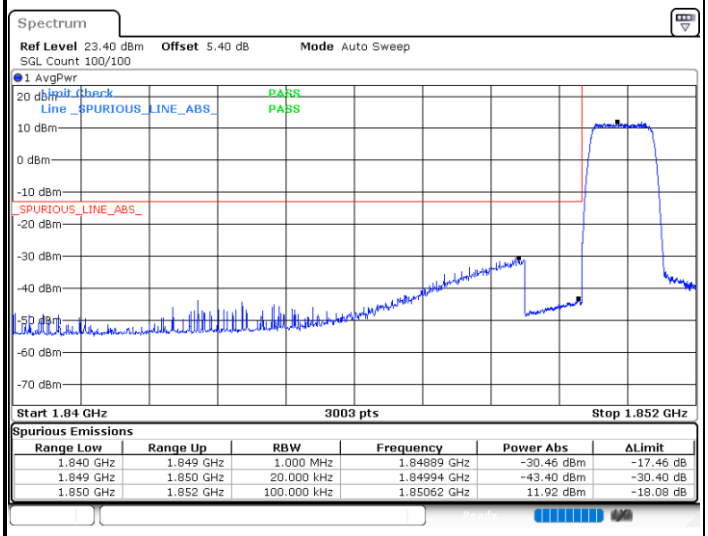


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90976 GHz	19.90 dBm	-10.10 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91065 GHz	-35.19 dBm	-22.19 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-23.61 dBm	-10.61 dB

Date: 2.MAR.2022 08:14:35

Lowest Band Edge / Full RB

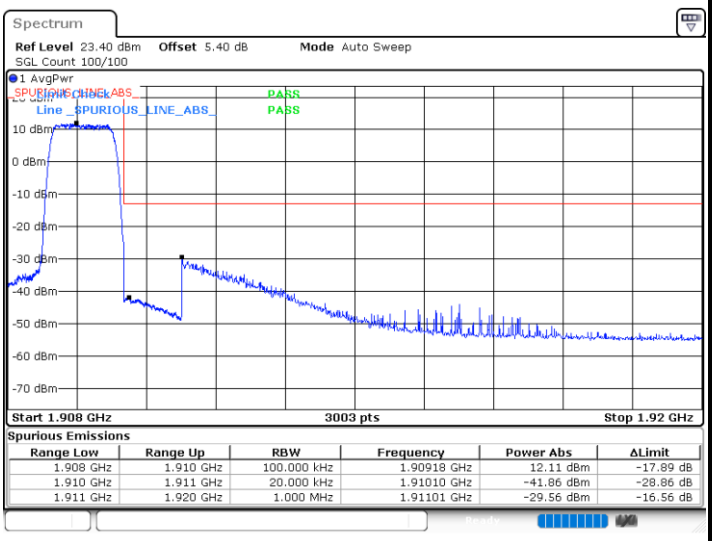


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84889 GHz	-30.46 dBm	-17.46 dB
1.849 GHz	1.850 GHz	20.000 kHz	1.84994 GHz	-43.40 dBm	-30.40 dB
1.850 GHz	1.852 GHz	100.000 kHz	1.85062 GHz	11.92 dBm	-18.08 dB

Date: 2.MAR.2022 08:05:54

Highest Band Edge / Full RB



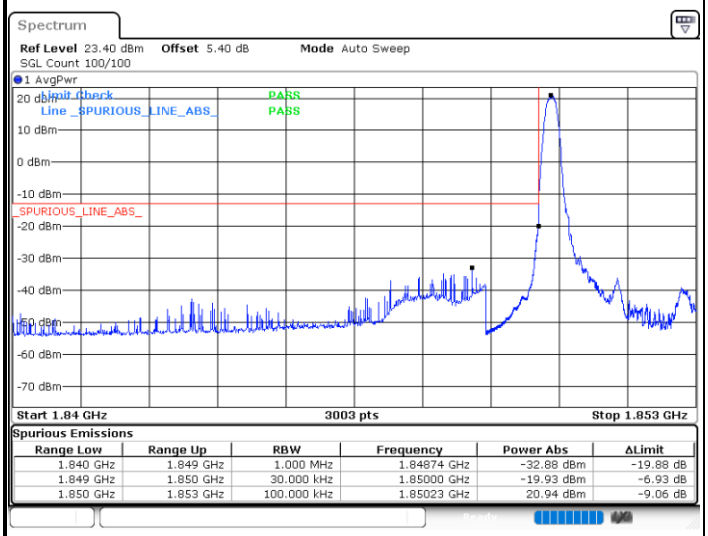
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.908 GHz	1.910 GHz	100.000 kHz	1.90918 GHz	12.11 dBm	-17.89 dB
1.910 GHz	1.911 GHz	20.000 kHz	1.91010 GHz	-41.86 dBm	-28.86 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-29.56 dBm	-16.56 dB

Date: 2.MAR.2022 08:30:18

LTE Band 2 / 3MHz / QPSK

Lowest Band Edge / 1RB

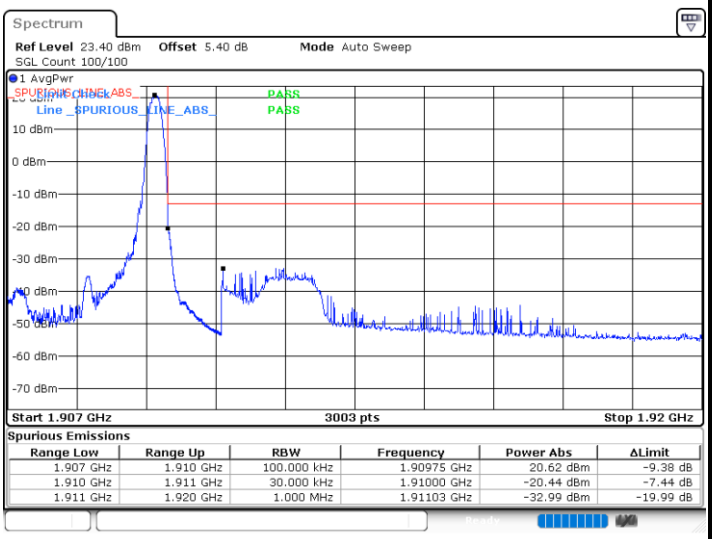


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84874 GHz	-32.88 dBm	-19.88 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-19.93 dBm	-6.93 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85023 GHz	20.94 dBm	-9.06 dB

Date: 2.MAR.2022 08:36:10

Highest Band Edge / 1 RB

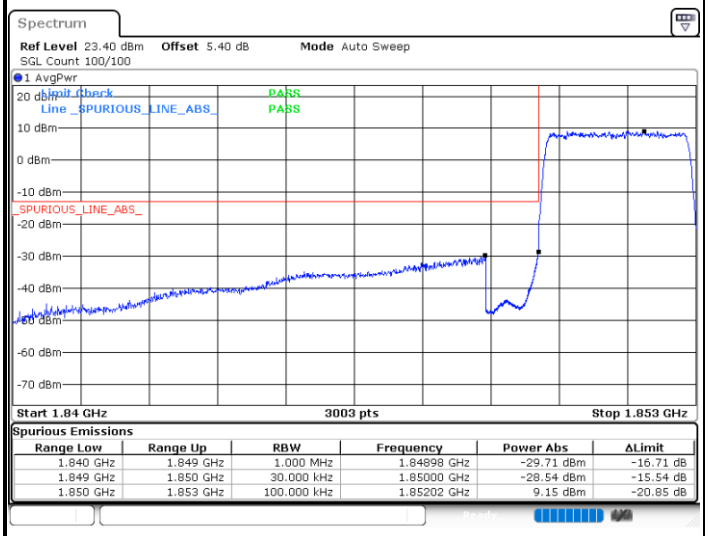


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90975 GHz	20.62 dBm	-9.38 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-20.44 dBm	-7.44 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	-32.99 dBm	-19.99 dB

Date: 2.MAR.2022 08:42:05

Lowest Band Edge / Full RB

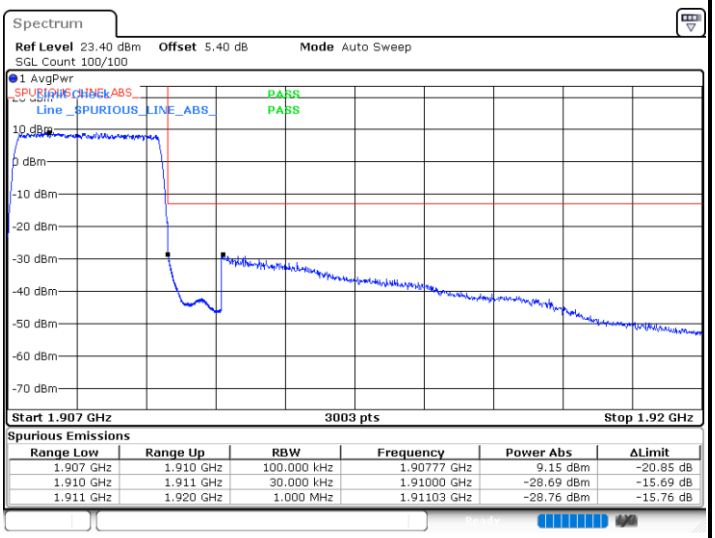


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-29.71 dBm	-16.71 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-28.54 dBm	-15.54 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85202 GHz	9.15 dBm	-20.85 dB

Date: 2.MAR.2022 08:40:13

Highest Band Edge / Full RB



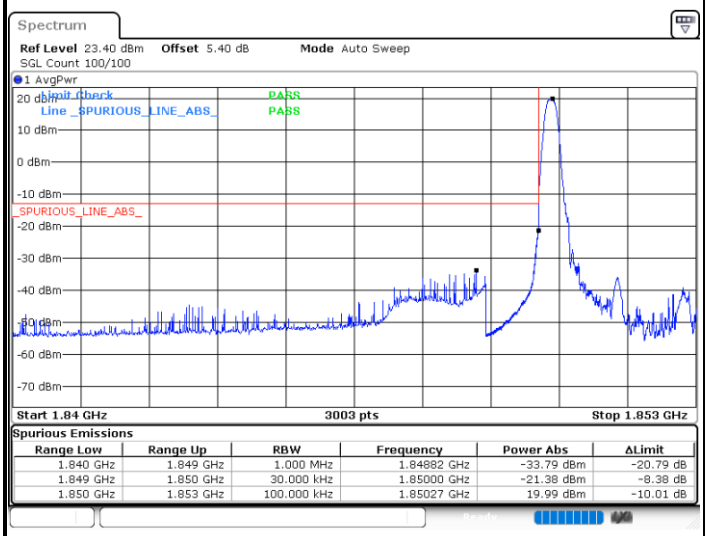
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90777 GHz	9.15 dBm	-20.85 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-28.69 dBm	-15.69 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91103 GHz	-28.76 dBm	-15.76 dB

Date: 2.MAR.2022 08:45:21

LTE Band 2 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

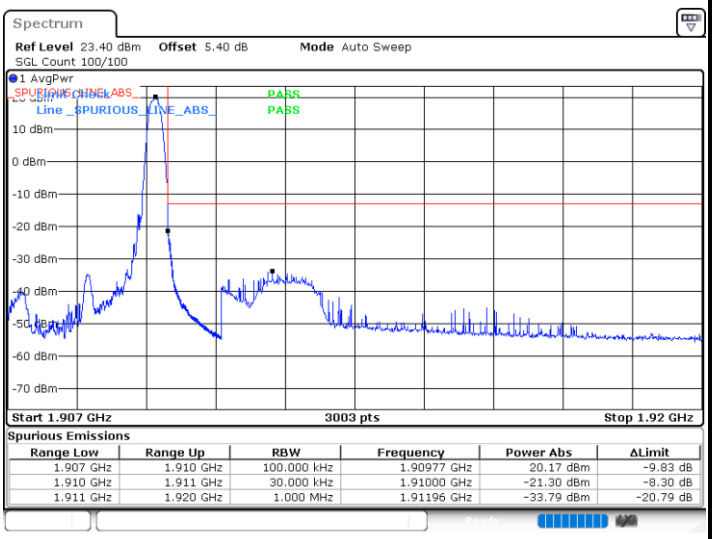


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84882 GHz	-33.79 dBm	-20.79 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-21.38 dBm	-8.38 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85027 GHz	19.99 dBm	-10.01 dB

Date: 2.MAR.2022 08:36:46

Highest Band Edge /1 RB

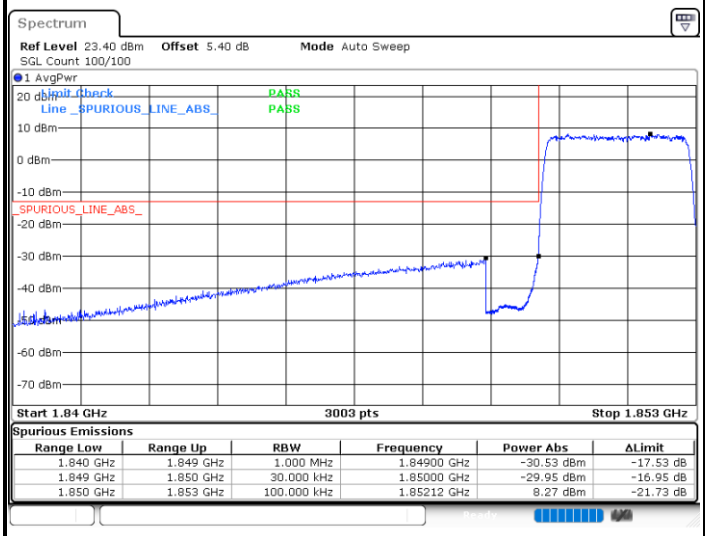


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90977 GHz	20.17 dBm	-9.83 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-21.30 dBm	-8.30 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91196 GHz	-33.79 dBm	-20.79 dB

Date: 2.MAR.2022 08:42:43

Lowest Band Edge / Full RB

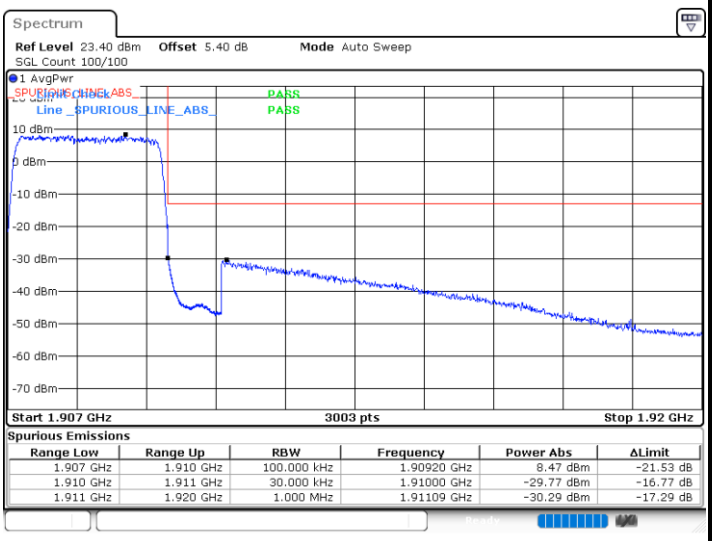


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-30.53 dBm	-17.53 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-29.95 dBm	-16.95 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85212 GHz	8.27 dBm	-21.73 dB

Date: 2.MAR.2022 08:39:34

Highest Band Edge / Full RB



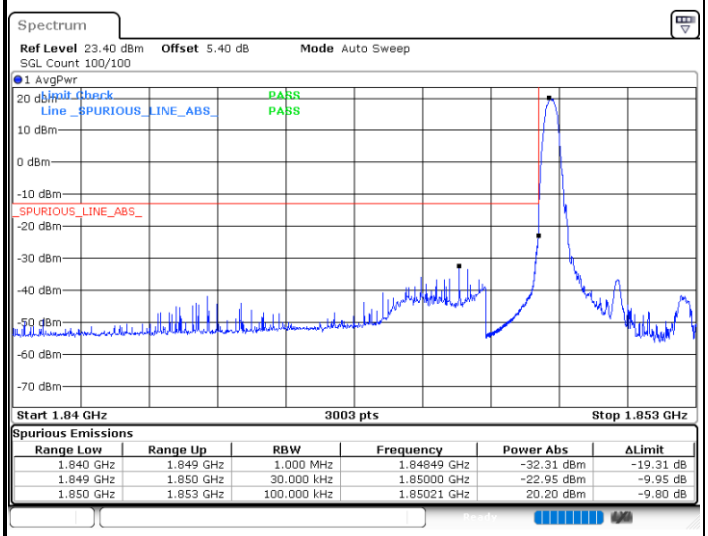
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90920 GHz	8.47 dBm	-21.53 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-29.77 dBm	-16.77 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91109 GHz	-30.29 dBm	-17.29 dB

Date: 2.MAR.2022 08:44:47

LTE Band 2 / 3MHz / 64QAM

Lowest Band Edge / 1 RB

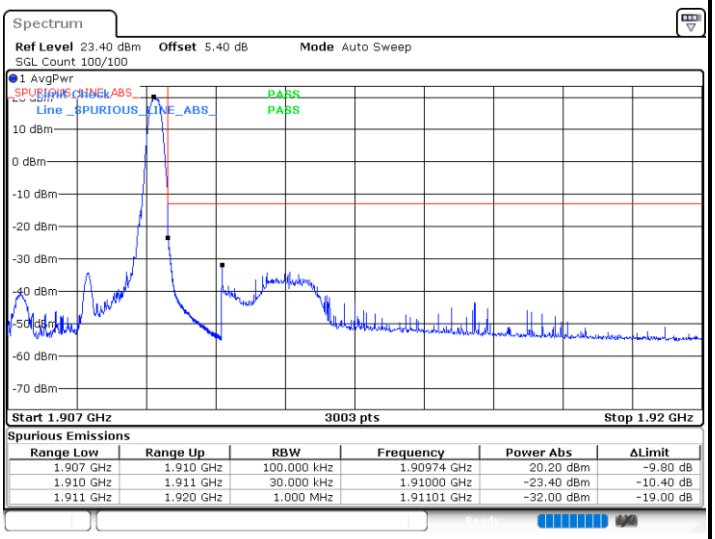


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84849 GHz	-32.31 dBm	-19.31 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-22.95 dBm	-9.95 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85021 GHz	20.20 dBm	-9.80 dB

Date: 2.MAR.2022 08:38:13

Highest Band Edge /1 RB

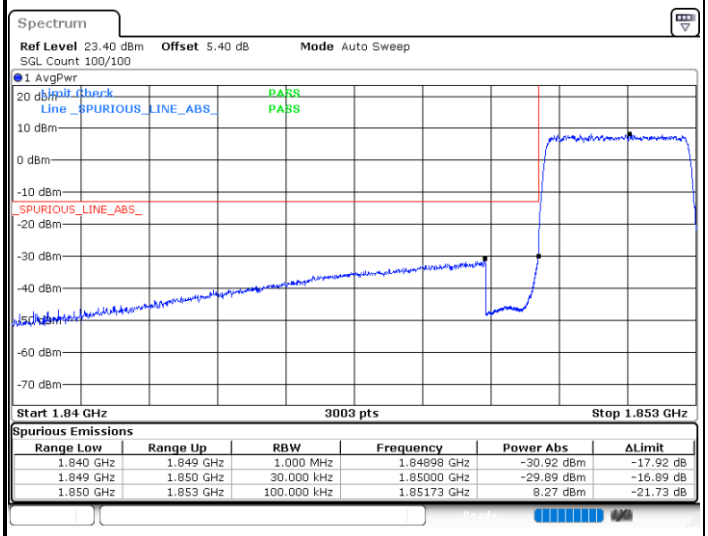


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90974 GHz	20.20 dBm	-9.80 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-23.40 dBm	-10.40 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-32.00 dBm	-19.00 dB

Date: 2.MAR.2022 08:43:21

Lowest Band Edge / Full RB

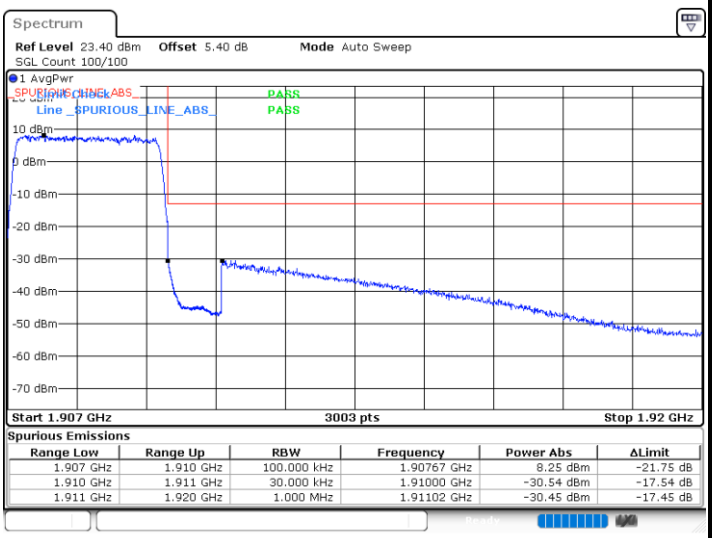


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-30.92 dBm	-17.92 dB
1.849 GHz	1.850 GHz	30.000 kHz	1.85000 GHz	-29.89 dBm	-16.89 dB
1.850 GHz	1.853 GHz	100.000 kHz	1.85173 GHz	8.27 dBm	-21.73 dB

Date: 2.MAR.2022 08:38:53

Highest Band Edge / Full RB



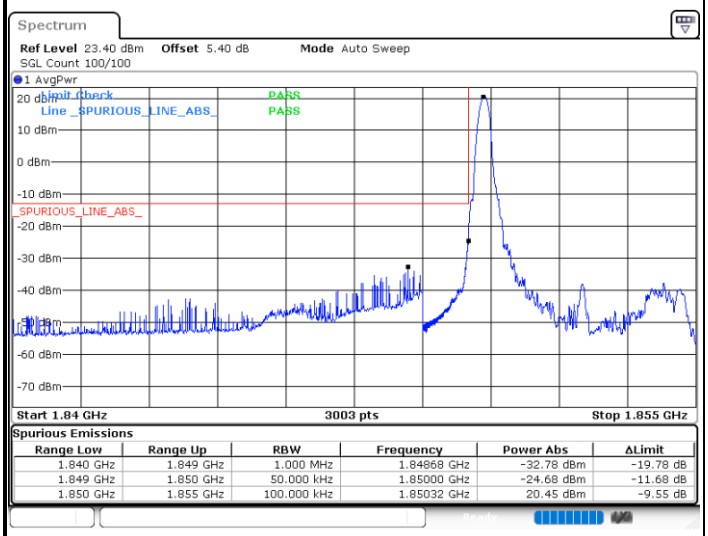
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.907 GHz	1.910 GHz	100.000 kHz	1.90767 GHz	8.25 dBm	-21.75 dB
1.910 GHz	1.911 GHz	30.000 kHz	1.91000 GHz	-30.54 dBm	-17.54 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91102 GHz	-30.45 dBm	-17.45 dB

Date: 2.MAR.2022 08:44:00

LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / 1 RB

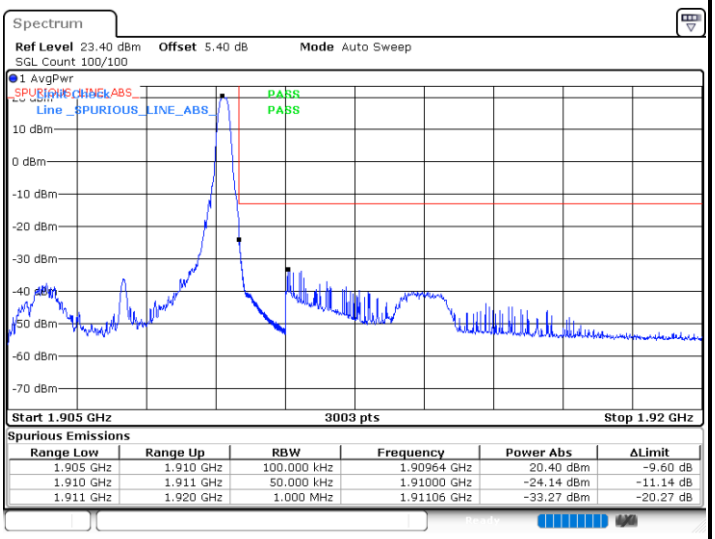


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84868 GHz	-32.78 dBm	-19.78 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-24.68 dBm	-11.68 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85032 GHz	20.45 dBm	-9.55 dB

Date: 2.MAR.2022 08:47:45

Highest Band Edge / 1 RB

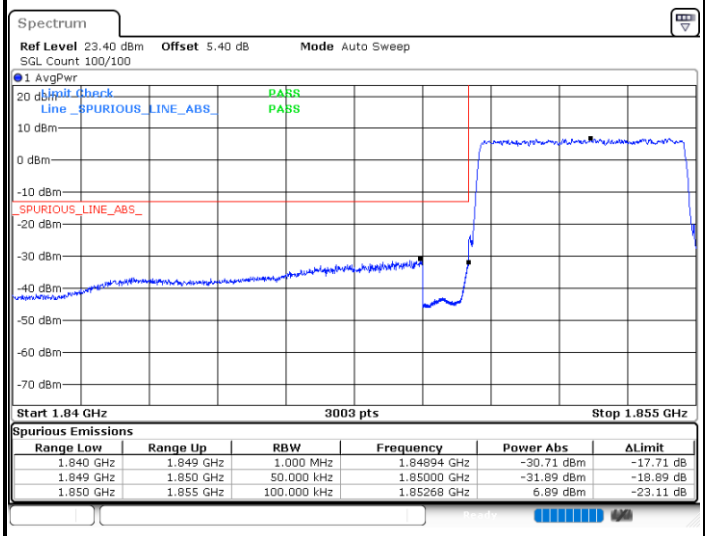


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90964 GHz	20.40 dBm	-9.60 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-24.14 dBm	-11.14 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91106 GHz	-33.27 dBm	-20.27 dB

Date: 2.MAR.2022 08:50:51

Lowest Band Edge / Full RB

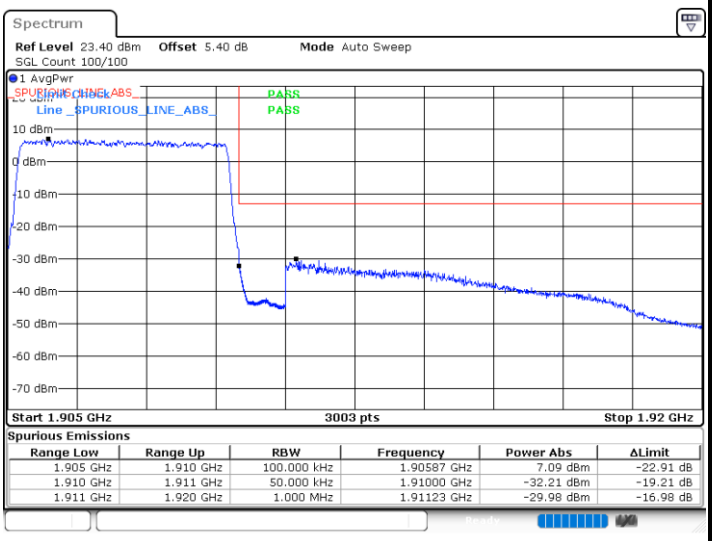


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84894 GHz	-30.71 dBm	-17.71 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-31.89 dBm	-18.89 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85268 GHz	6.89 dBm	-23.11 dB

Date: 2.MAR.2022 08:49:37

Highest Band Edge / Full RB



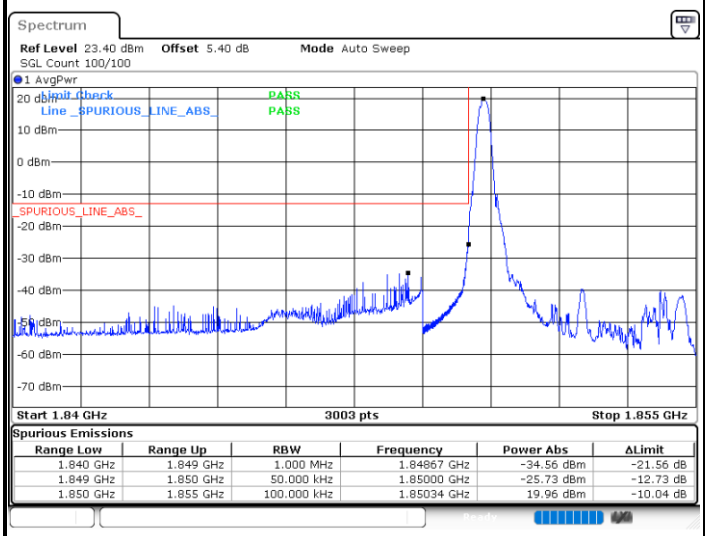
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90587 GHz	7.09 dBm	-22.91 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-32.21 dBm	-19.21 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91123 GHz	-29.98 dBm	-16.98 dB

Date: 2.MAR.2022 08:52:51

LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB

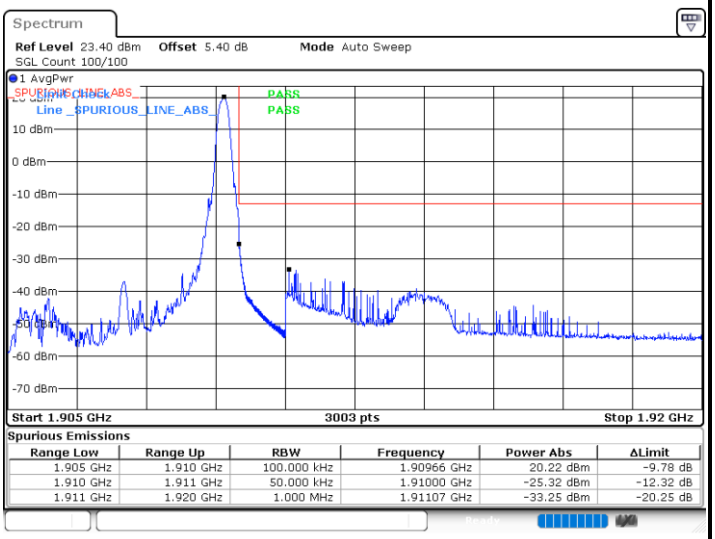


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84867 GHz	-34.56 dBm	-21.56 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-25.73 dBm	-12.73 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85034 GHz	19.96 dBm	-10.04 dB

Date: 2.MAR.2022 08:48:06

Highest Band Edge / 1 RB

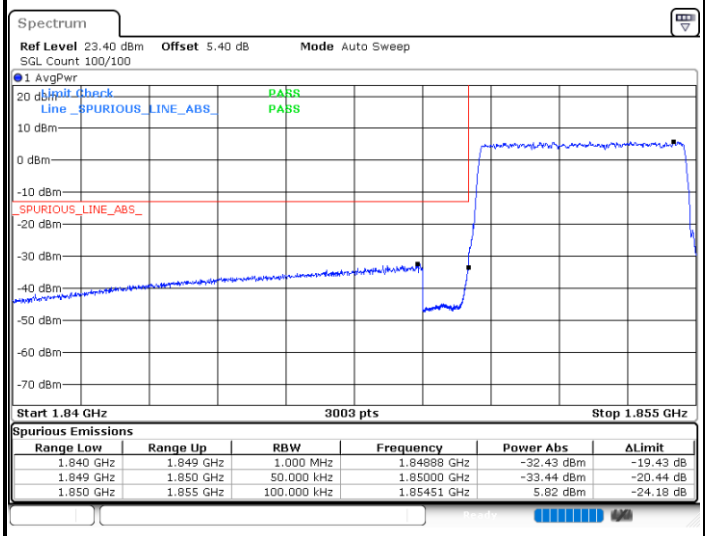


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90966 GHz	20.22 dBm	-9.78 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-25.32 dBm	-12.32 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-33.25 dBm	-20.25 dB

Date: 2.MAR.2022 08:51:17

Lowest Band Edge / Full RB

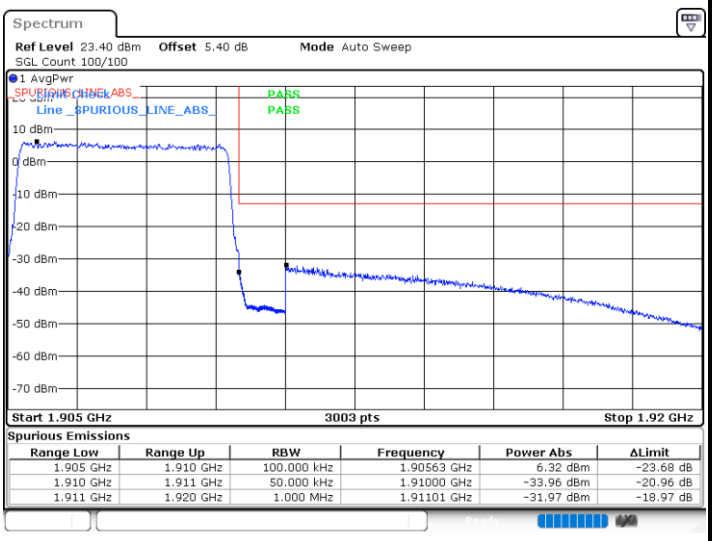


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84888 GHz	-32.43 dBm	-19.43 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-33.44 dBm	-20.44 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85451 GHz	5.82 dBm	-24.18 dB

Date: 2.MAR.2022 08:49:11

Highest Band Edge / Full RB



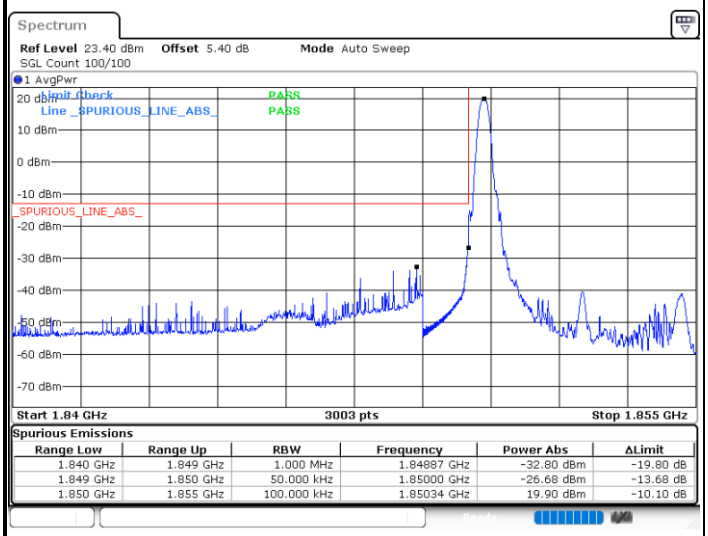
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90563 GHz	6.32 dBm	-23.68 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-33.96 dBm	-20.96 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91101 GHz	-31.97 dBm	-18.97 dB

Date: 2.MAR.2022 08:52:30

LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB

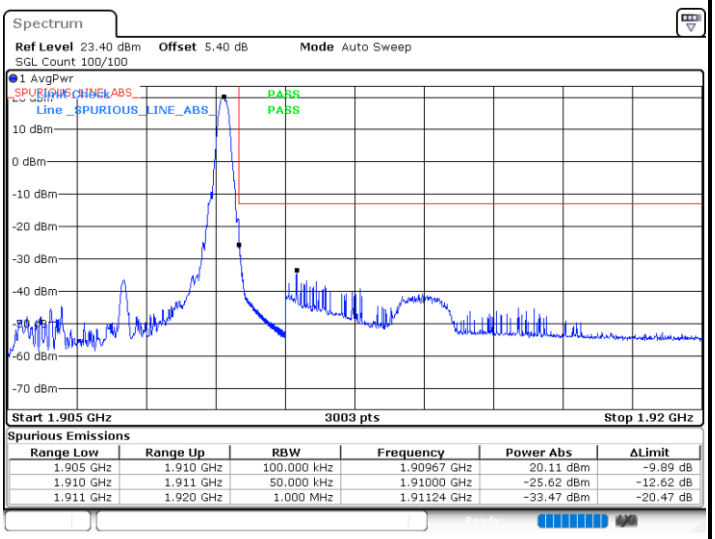


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84887 GHz	-32.80 dBm	-19.80 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-26.68 dBm	-13.68 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85034 GHz	19.90 dBm	-10.10 dB

Date: 2.MAR.2022 08:48:25

Highest Band Edge / 1 RB

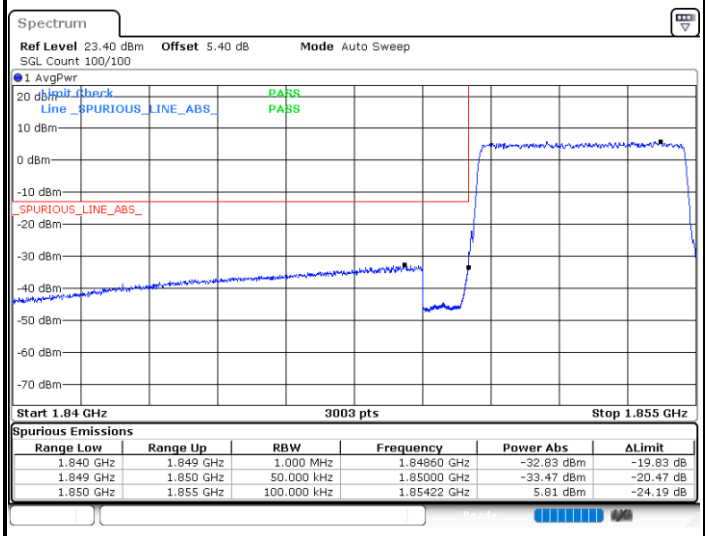


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90967 GHz	20.11 dBm	-9.89 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-25.62 dBm	-12.62 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91124 GHz	-33.47 dBm	-20.47 dB

Date: 2.MAR.2022 08:51:44

Lowest Band Edge / Full RB

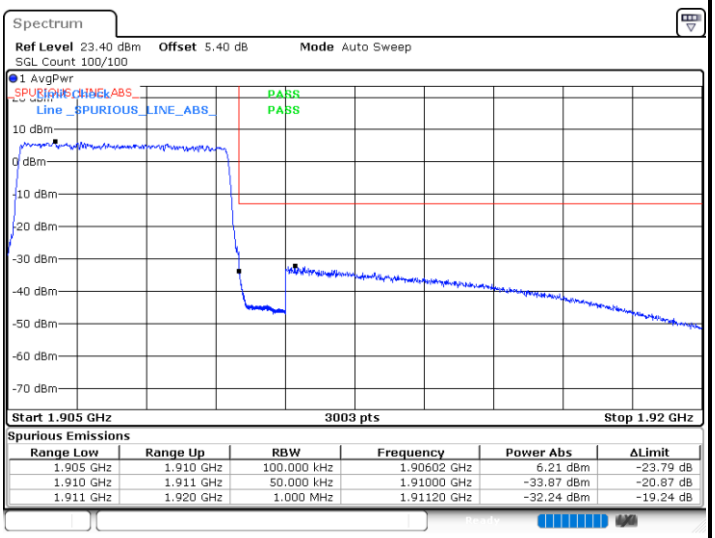


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84860 GHz	-32.83 dBm	-19.83 dB
1.849 GHz	1.850 GHz	50.000 kHz	1.85000 GHz	-33.47 dBm	-20.47 dB
1.850 GHz	1.855 GHz	100.000 kHz	1.85422 GHz	5.81 dBm	-24.19 dB

Date: 2.MAR.2022 08:48:49

Highest Band Edge / Full RB



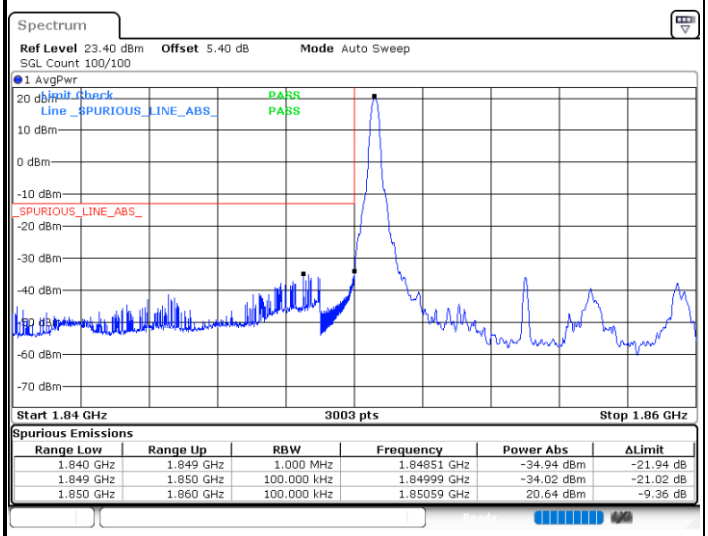
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.905 GHz	1.910 GHz	100.000 kHz	1.90602 GHz	6.21 dBm	-23.79 dB
1.910 GHz	1.911 GHz	50.000 kHz	1.91000 GHz	-33.87 dBm	-20.87 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91120 GHz	-32.24 dBm	-19.24 dB

Date: 2.MAR.2022 08:52:09

LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB

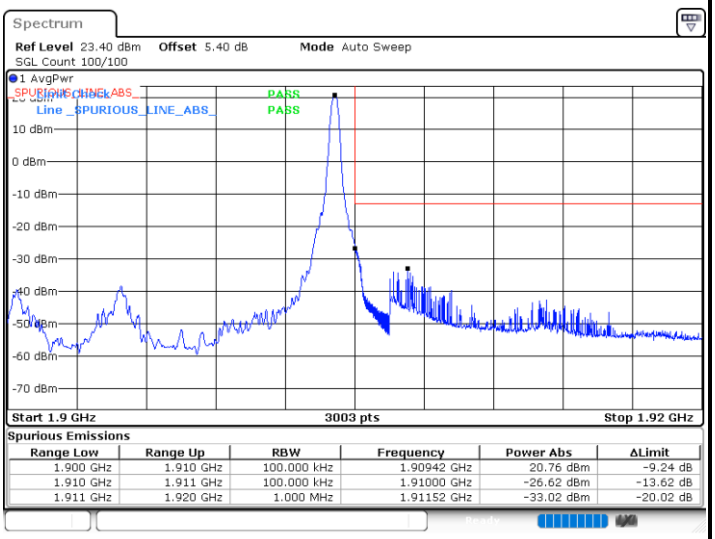


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84851 GHz	-34.94 dBm	-21.94 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-34.02 dBm	-21.02 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85059 GHz	20.64 dBm	-9.36 dB

Date: 2.MAR.2022 08:55:59

Highest Band Edge / 1 RB

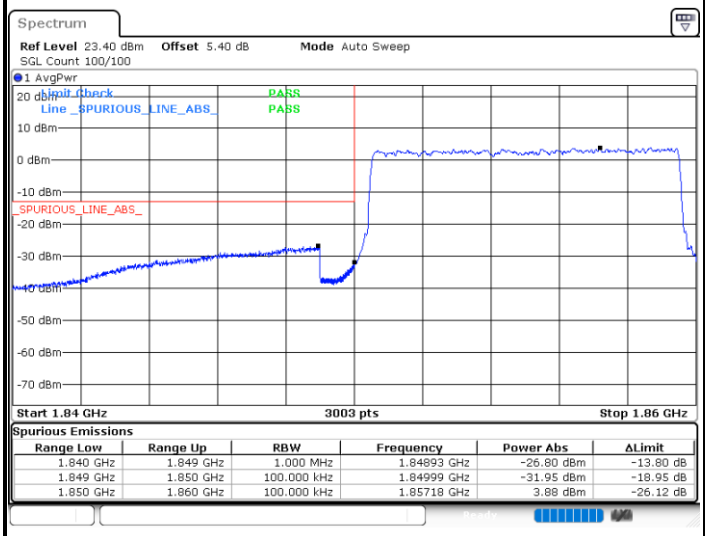


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90942 GHz	20.76 dBm	-9.24 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-26.62 dBm	-13.62 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91152 GHz	-33.02 dBm	-20.02 dB

Date: 2.MAR.2022 08:59:07

Lowest Band Edge / Full RB

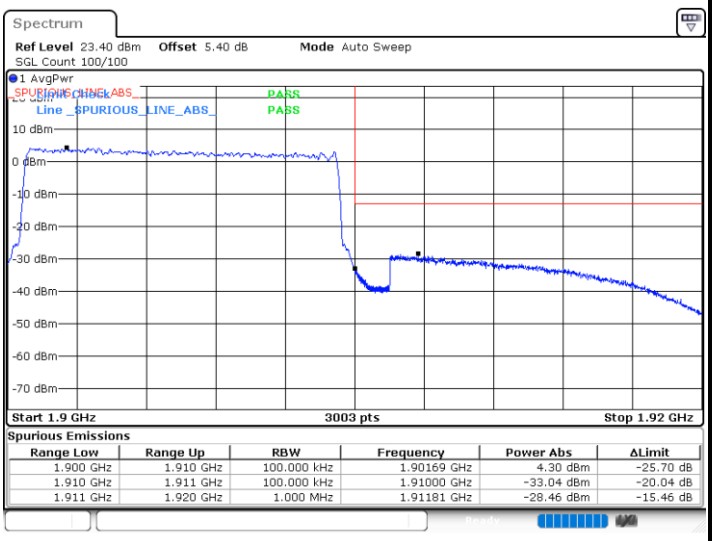


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84893 GHz	-26.80 dBm	-13.80 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84999 GHz	-31.95 dBm	-18.95 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85718 GHz	3.88 dBm	-26.12 dB

Date: 2.MAR.2022 08:57:14

Highest Band Edge / Full RB



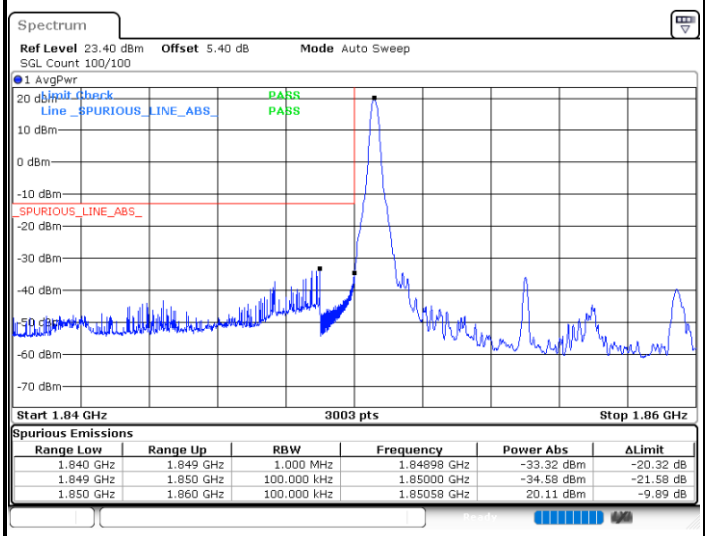
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90169 GHz	4.30 dBm	-25.70 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-33.04 dBm	-20.04 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91181 GHz	-28.46 dBm	-15.46 dB

Date: 2.MAR.2022 08:57:43

LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

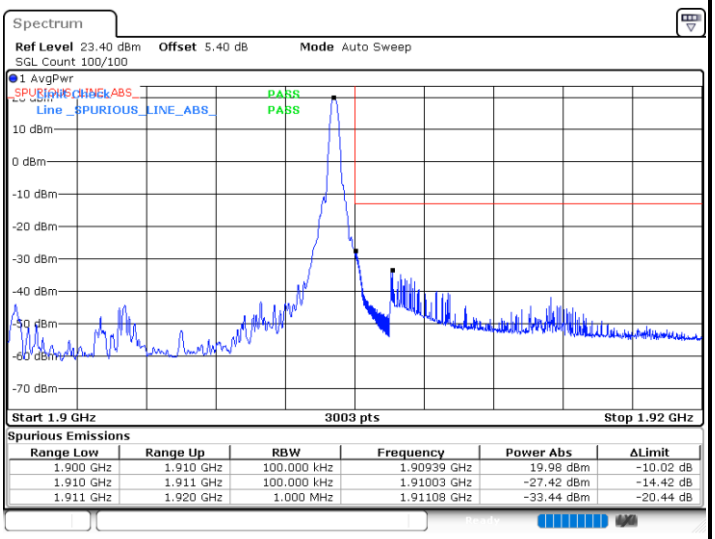


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-33.32 dBm	-20.32 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-34.58 dBm	-21.58 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85058 GHz	20.11 dBm	-9.89 dB

Date: 2.MAR.2022 08:56:15

Highest Band Edge / 1 RB

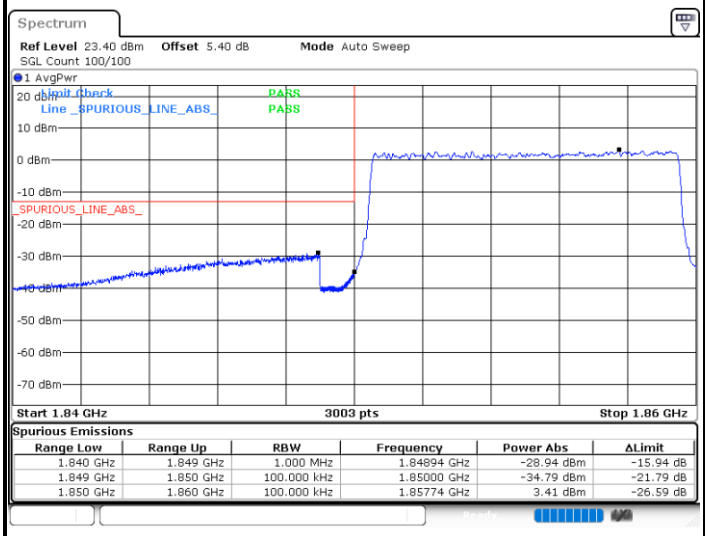


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90939 GHz	19.98 dBm	-10.02 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91003 GHz	-27.42 dBm	-14.42 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-33.44 dBm	-20.44 dB

Date: 2.MAR.2022 08:58:52

Lowest Band Edge / Full RB

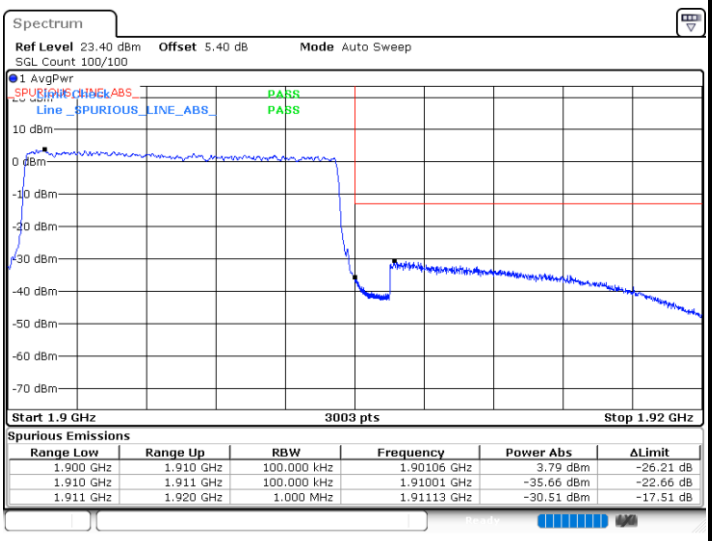


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84894 GHz	-28.94 dBm	-15.94 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-34.79 dBm	-21.79 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85774 GHz	3.41 dBm	-26.59 dB

Date: 2.MAR.2022 08:56:59

Highest Band Edge / Full RB



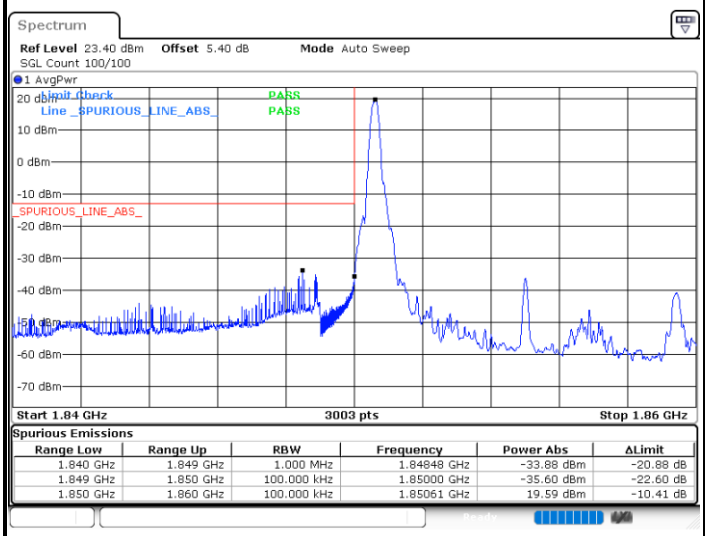
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90106 GHz	3.79 dBm	-26.21 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-35.66 dBm	-22.66 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91113 GHz	-30.51 dBm	-17.51 dB

Date: 2.MAR.2022 08:57:57

LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

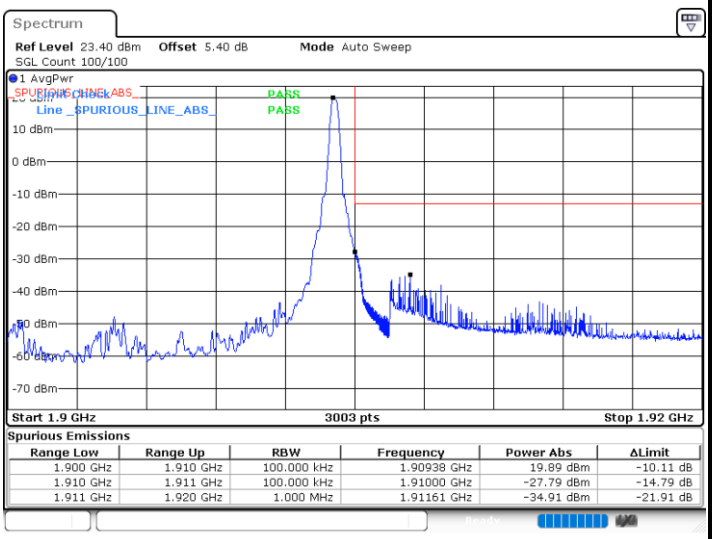


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84848 GHz	-33.88 dBm	-20.88 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.85000 GHz	-35.60 dBm	-22.60 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85061 GHz	19.59 dBm	-10.41 dB

Date: 2.MAR.2022 08:56:30

Highest Band Edge / 1 RB

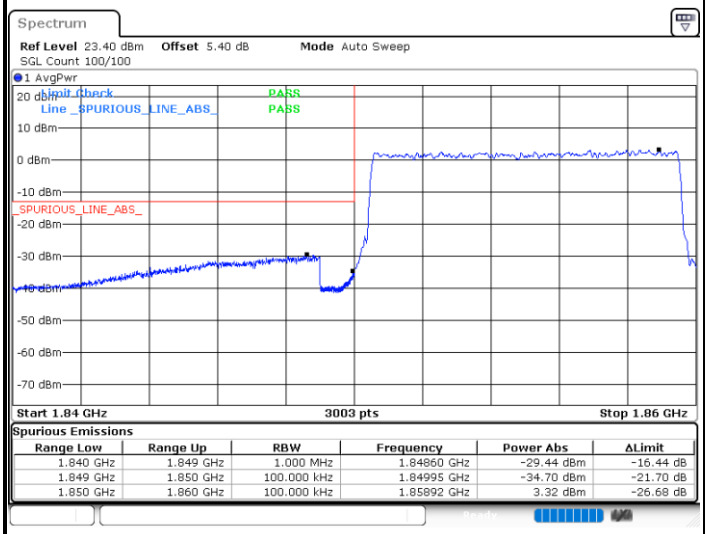


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90938 GHz	19.89 dBm	-10.11 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91000 GHz	-27.79 dBm	-14.79 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91161 GHz	-34.91 dBm	-21.91 dB

Date: 2.MAR.2022 08:58:36

Lowest Band Edge / Full RB

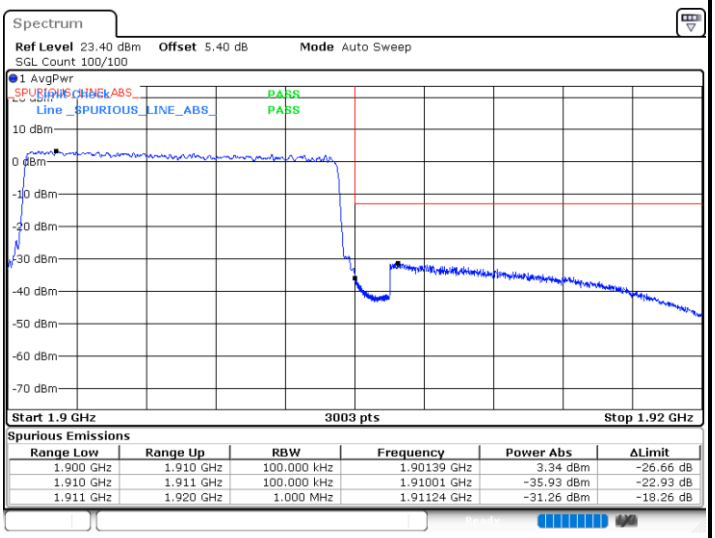


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84860 GHz	-29.44 dBm	-16.44 dB
1.849 GHz	1.850 GHz	100.000 kHz	1.84995 GHz	-34.70 dBm	-21.70 dB
1.850 GHz	1.860 GHz	100.000 kHz	1.85892 GHz	3.32 dBm	-26.68 dB

Date: 2.MAR.2022 08:56:45

Highest Band Edge / Full RB



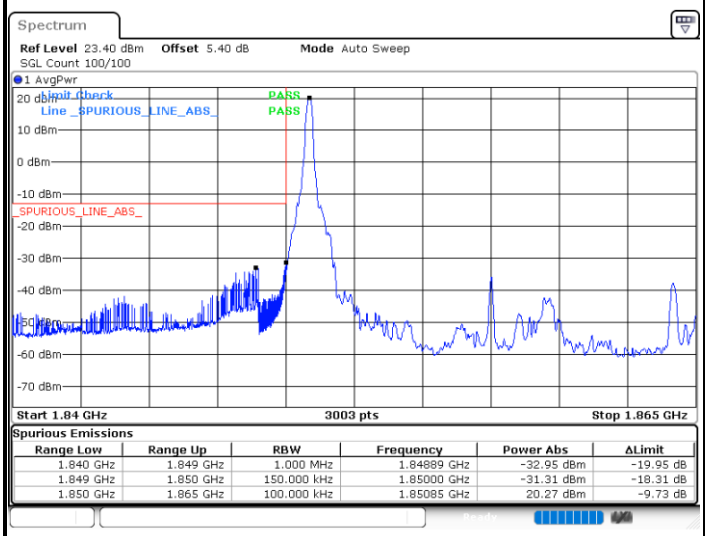
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.900 GHz	1.910 GHz	100.000 kHz	1.90139 GHz	3.34 dBm	-26.66 dB
1.910 GHz	1.911 GHz	100.000 kHz	1.91001 GHz	-35.93 dBm	-22.93 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91124 GHz	-31.26 dBm	-18.26 dB

Date: 2.MAR.2022 08:58:17

LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB

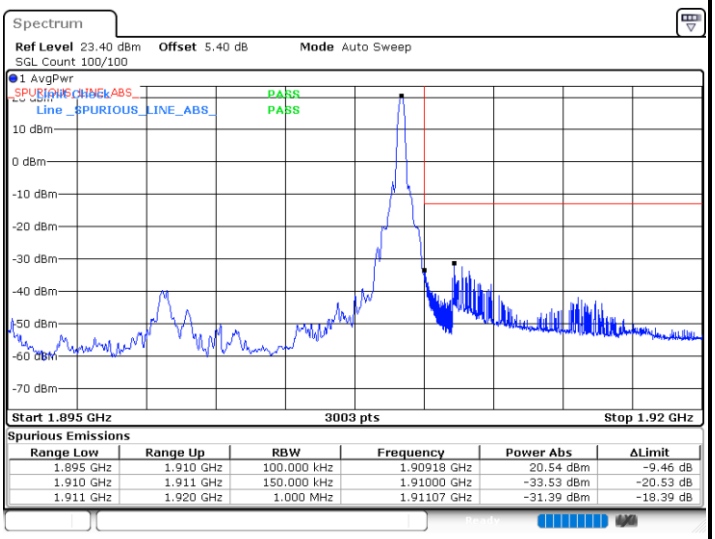


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84889 GHz	-32.95 dBm	-19.95 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.85000 GHz	-31.31 dBm	-18.31 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85085 GHz	20.27 dBm	-9.73 dB

Date: 2.MAR.2022 09:01:00

Highest Band Edge / 1 RB

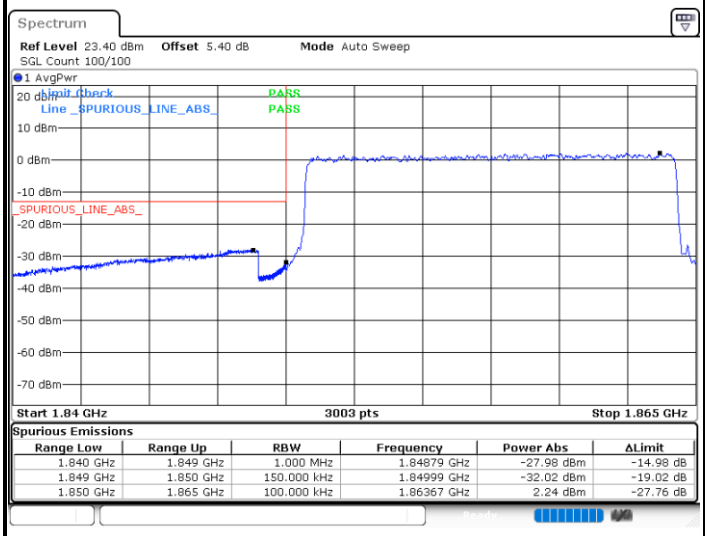


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90918 GHz	20.54 dBm	-9.46 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-33.53 dBm	-20.53 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-31.39 dBm	-18.39 dB

Date: 2.MAR.2022 09:03:47

Lowest Band Edge / Full RB

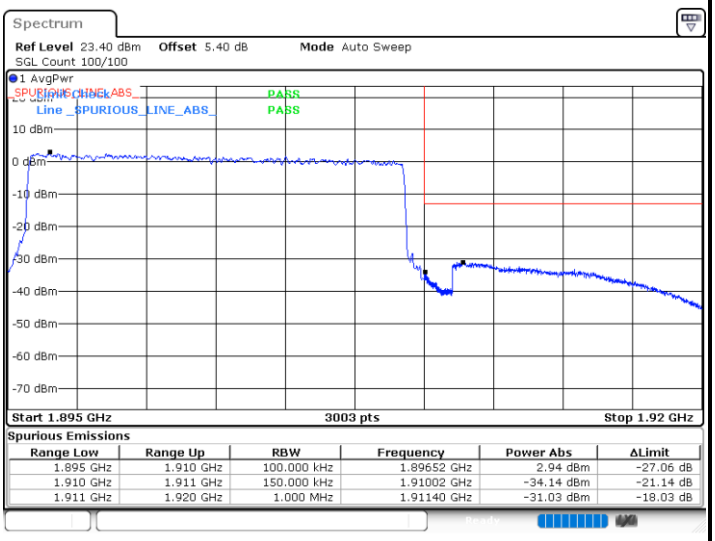


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84879 GHz	-27.98 dBm	-14.98 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-32.02 dBm	-19.02 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86367 GHz	2.24 dBm	-27.76 dB

Date: 2.MAR.2022 09:02:23

Highest Band Edge / Full RB



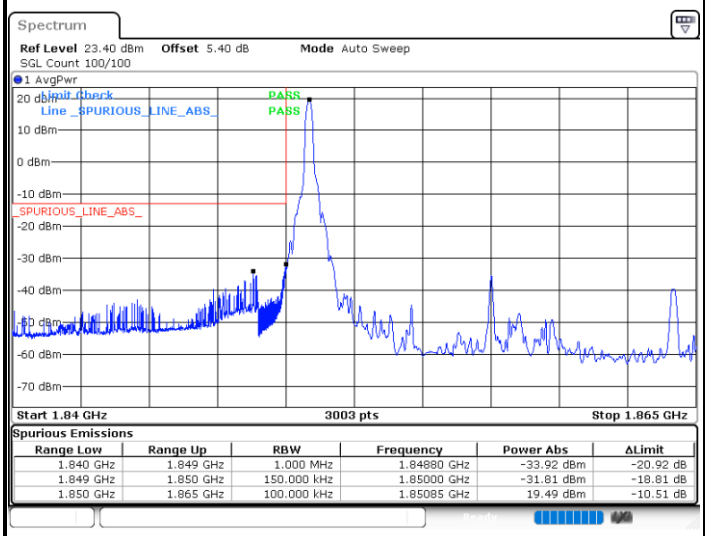
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89652 GHz	2.94 dBm	-27.06 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91002 GHz	-34.14 dBm	-21.14 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91140 GHz	-31.03 dBm	-18.03 dB

Date: 2.MAR.2022 09:05:08

LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

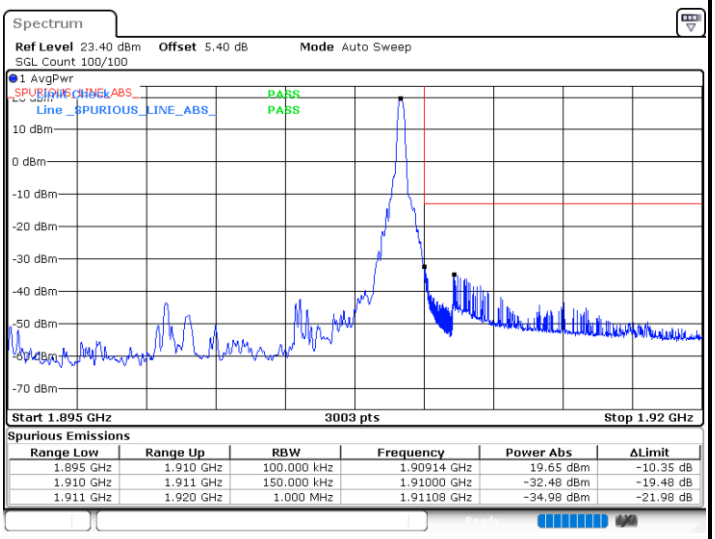


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84880 GHz	-33.92 dBm	-20.92 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.85000 GHz	-31.81 dBm	-18.81 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85085 GHz	19.49 dBm	-10.51 dB

Date: 2.MAR.2022 09:01:14

Highest Band Edge / 1 RB

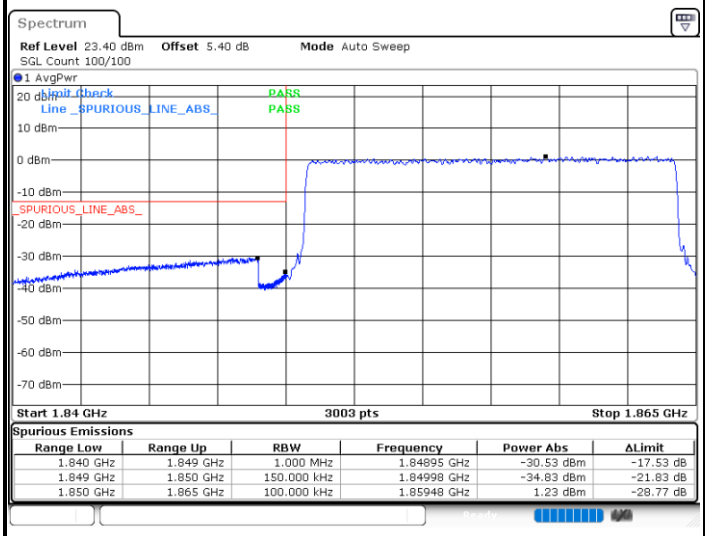


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90914 GHz	19.65 dBm	-10.35 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-32.48 dBm	-19.48 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91108 GHz	-34.98 dBm	-21.98 dB

Date: 2.MAR.2022 09:04:02

Lowest Band Edge / Full RB

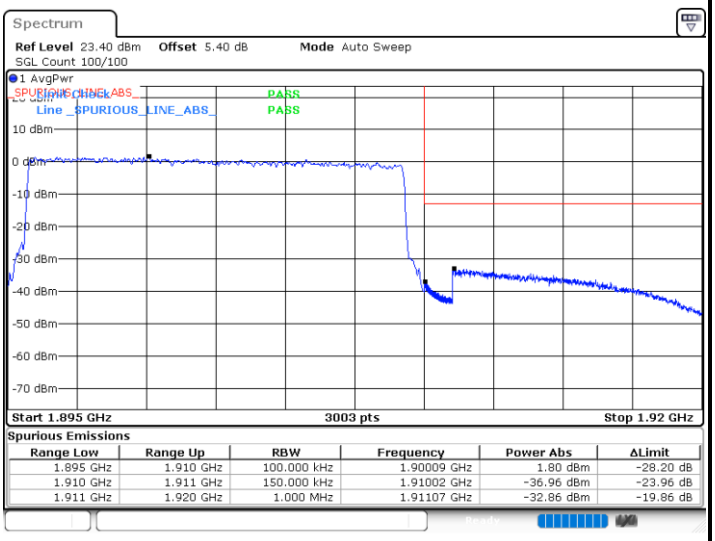


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84895 GHz	-30.53 dBm	-17.53 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84998 GHz	-34.83 dBm	-21.83 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85948 GHz	1.23 dBm	-28.77 dB

Date: 2.MAR.2022 09:02:03

Highest Band Edge / Full RB



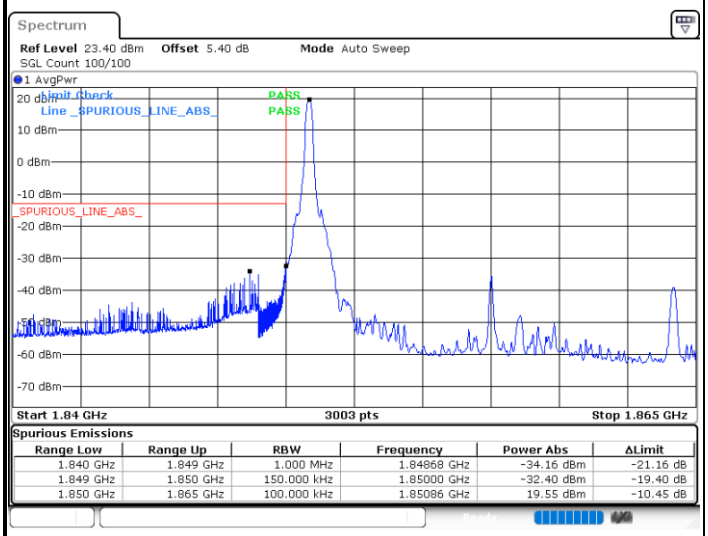
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90009 GHz	1.80 dBm	-28.20 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91002 GHz	-36.96 dBm	-23.96 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91107 GHz	-32.86 dBm	-19.86 dB

Date: 2.MAR.2022 09:04:51

LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB

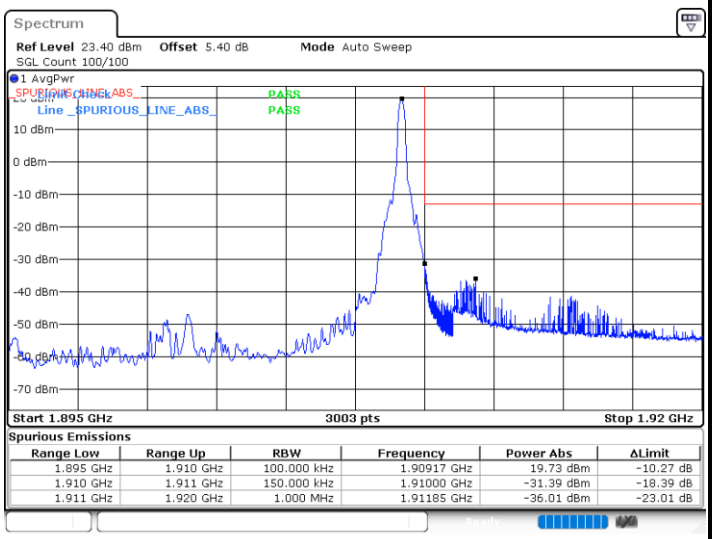


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84868 GHz	-34.16 dBm	-21.16 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.85000 GHz	-32.40 dBm	-19.40 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.85086 GHz	19.55 dBm	-10.45 dB

Date: 2.MAR.2022 09:01:30

Highest Band Edge / 1 RB

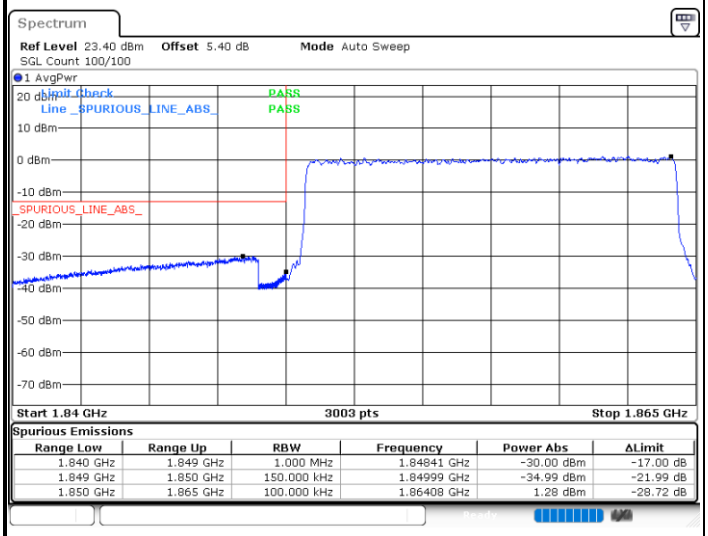


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.90917 GHz	19.73 dBm	-10.27 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-31.39 dBm	-18.39 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91185 GHz	-36.01 dBm	-23.01 dB

Date: 2.MAR.2022 09:04:22

Lowest Band Edge / Full RB

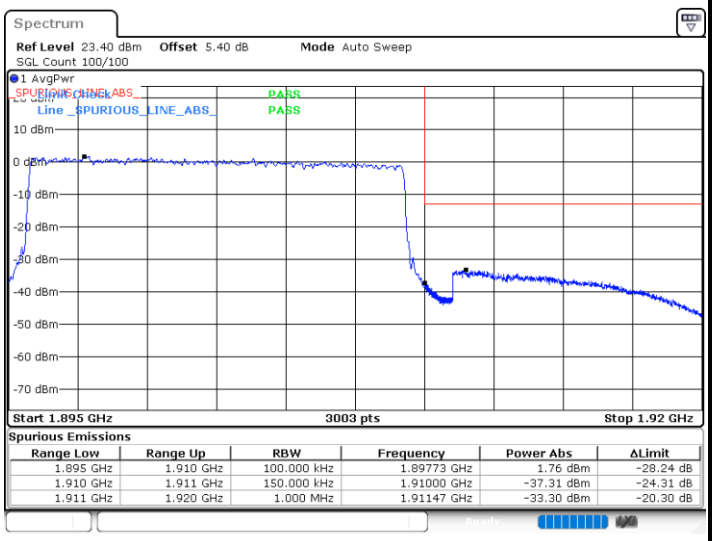


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84841 GHz	-30.00 dBm	-17.00 dB
1.849 GHz	1.850 GHz	150.000 kHz	1.84999 GHz	-34.99 dBm	-21.99 dB
1.850 GHz	1.865 GHz	100.000 kHz	1.86408 GHz	1.28 dBm	-28.72 dB

Date: 2.MAR.2022 09:01:49

Highest Band Edge / Full RB



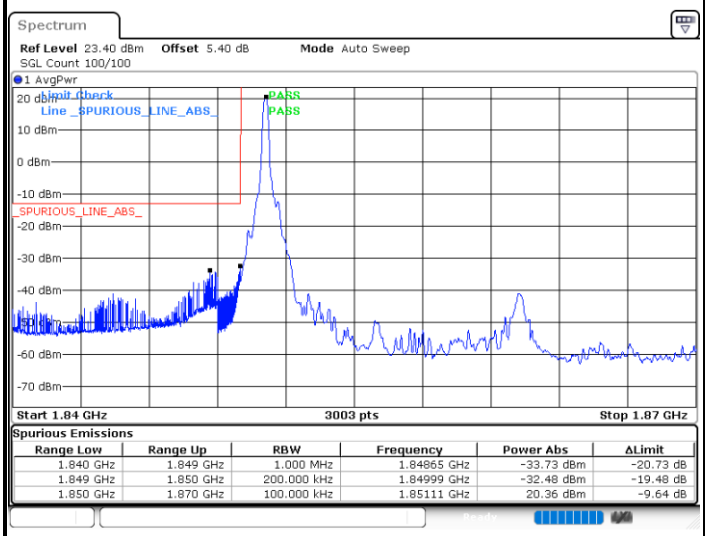
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.895 GHz	1.910 GHz	100.000 kHz	1.89773 GHz	1.76 dBm	-28.24 dB
1.910 GHz	1.911 GHz	150.000 kHz	1.91000 GHz	-37.31 dBm	-24.31 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91147 GHz	-33.30 dBm	-20.30 dB

Date: 2.MAR.2022 09:04:37

LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB

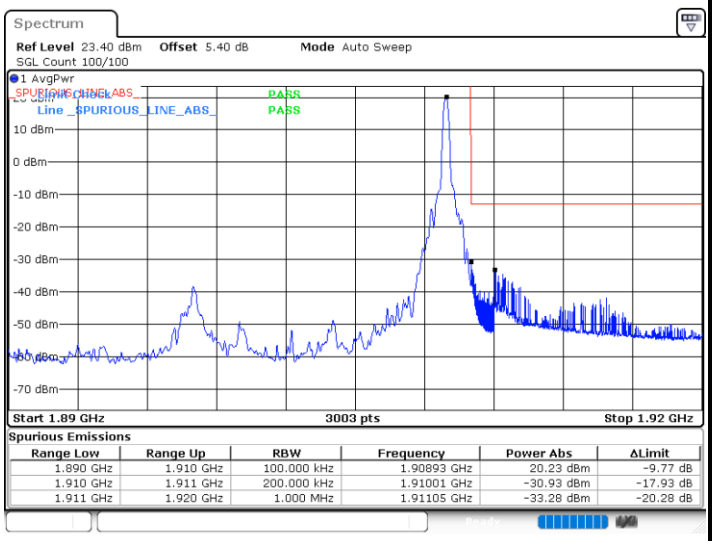


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84865 GHz	-33.73 dBm	-20.73 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84999 GHz	-32.48 dBm	-19.48 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85111 GHz	20.36 dBm	-9.64 dB

Date: 2.MAR.2022 09:07:04

Highest Band Edge / 1 RB

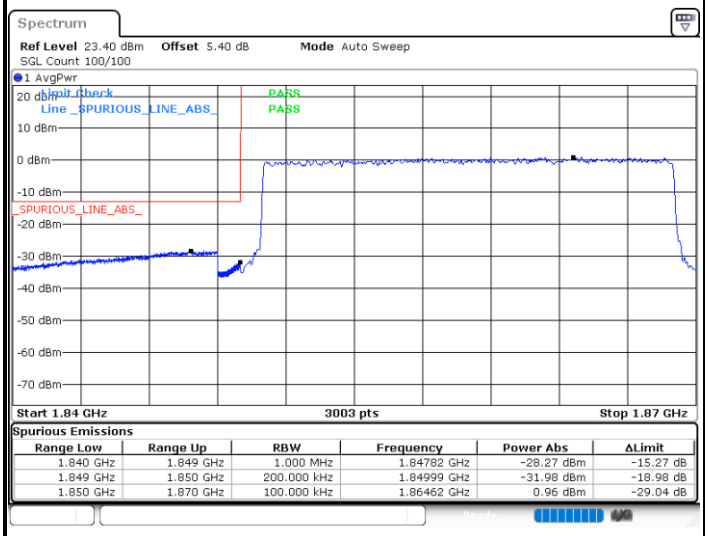


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90893 GHz	20.23 dBm	-9.77 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-30.93 dBm	-17.93 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91105 GHz	-33.28 dBm	-20.28 dB

Date: 2.MAR.2022 09:08:52

Lowest Band Edge / Full RB

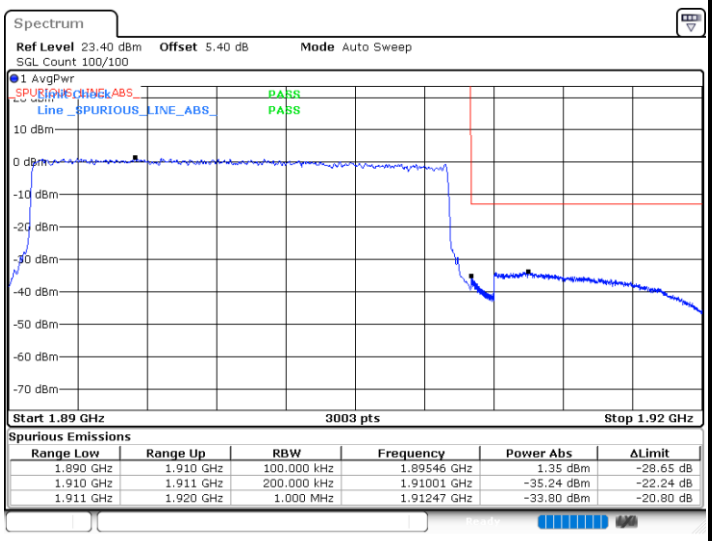


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84782 GHz	-28.27 dBm	-15.27 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84999 GHz	-31.98 dBm	-18.98 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86462 GHz	0.96 dBm	-29.04 dB

Date: 2.MAR.2022 09:08:36

Highest Band Edge / Full RB



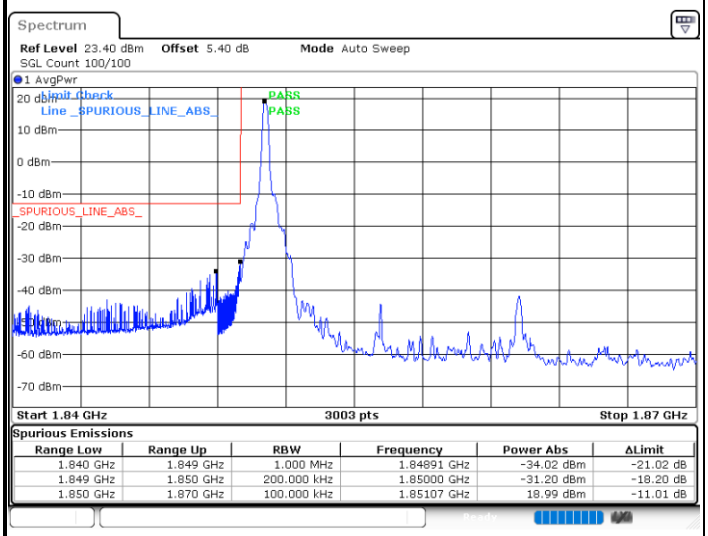
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89546 GHz	1.35 dBm	-28.65 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-35.24 dBm	-22.24 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91247 GHz	-33.80 dBm	-20.80 dB

Date: 2.MAR.2022 09:10:01

LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

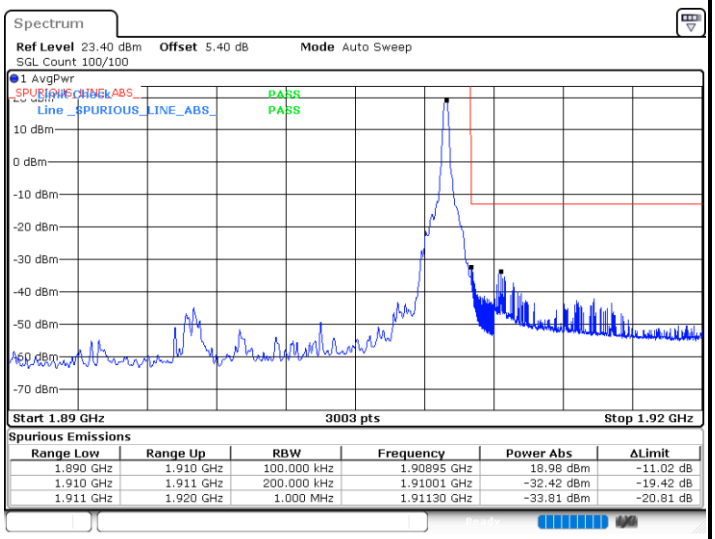


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84891 GHz	-34.02 dBm	-21.02 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.85000 GHz	-31.20 dBm	-18.20 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85107 GHz	18.99 dBm	-11.01 dB

Date: 2.MAR.2022 09:07:19

Highest Band Edge / 1 RB

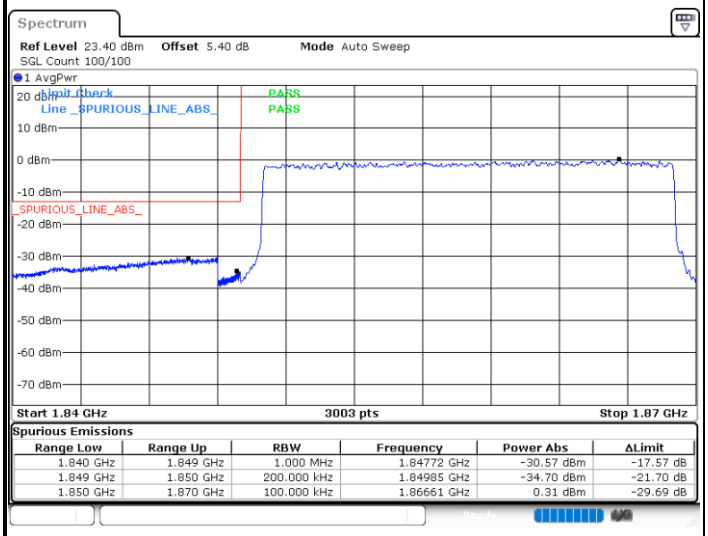


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.90895 GHz	18.98 dBm	-11.02 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-32.42 dBm	-19.42 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91130 GHz	-33.81 dBm	-20.81 dB

Date: 2.MAR.2022 09:09:05

Lowest Band Edge / Full RB

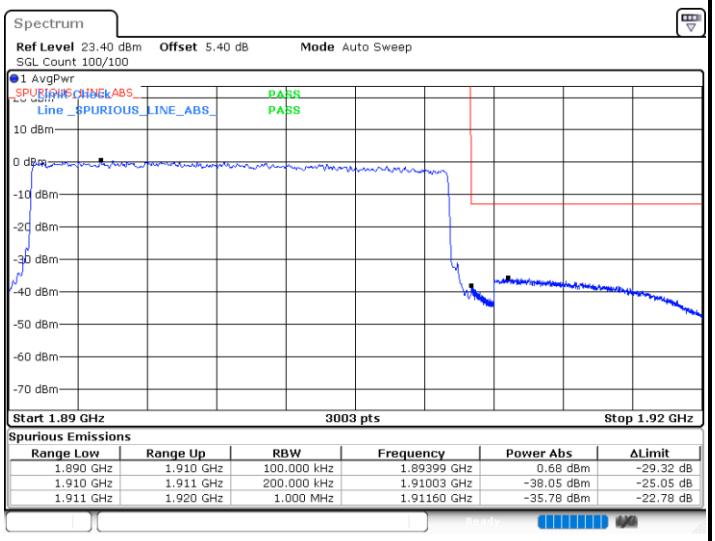


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84772 GHz	-30.57 dBm	-17.57 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84985 GHz	-34.70 dBm	-21.70 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86661 GHz	0.31 dBm	-29.69 dB

Date: 2.MAR.2022 09:08:21

Highest Band Edge / Full RB



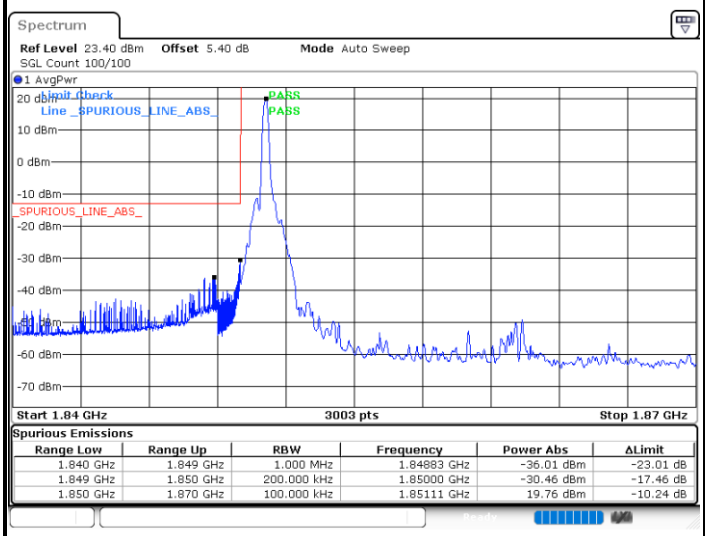
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89399 GHz	0.68 dBm	-29.32 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91003 GHz	-38.05 dBm	-25.05 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91160 GHz	-35.78 dBm	-22.78 dB

Date: 2.MAR.2022 09:09:47

LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

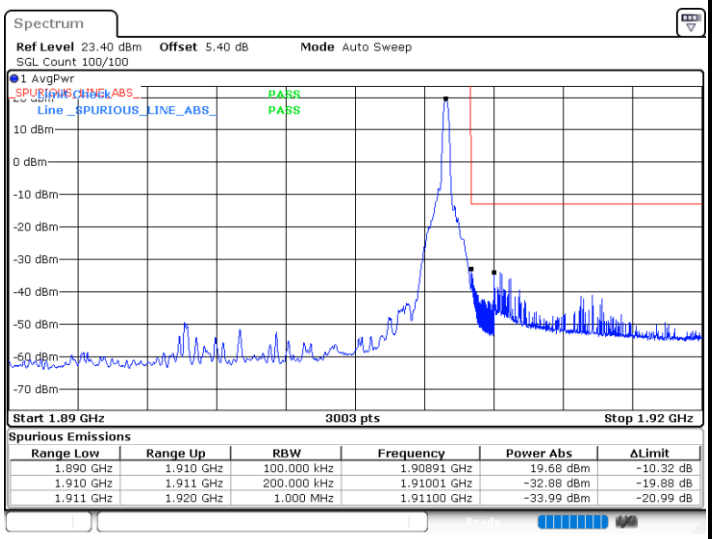


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84883 GHz	-36.01 dBm	-23.01 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.85000 GHz	-30.46 dBm	-17.46 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.85111 GHz	19.76 dBm	-10.24 dB

Date: 2.MAR.2022 09:07:32

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	1.90891 GHz	19.68 dBm	-10.32 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91001 GHz	-32.88 dBm	-19.88 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-33.99 dBm	-20.99 dB

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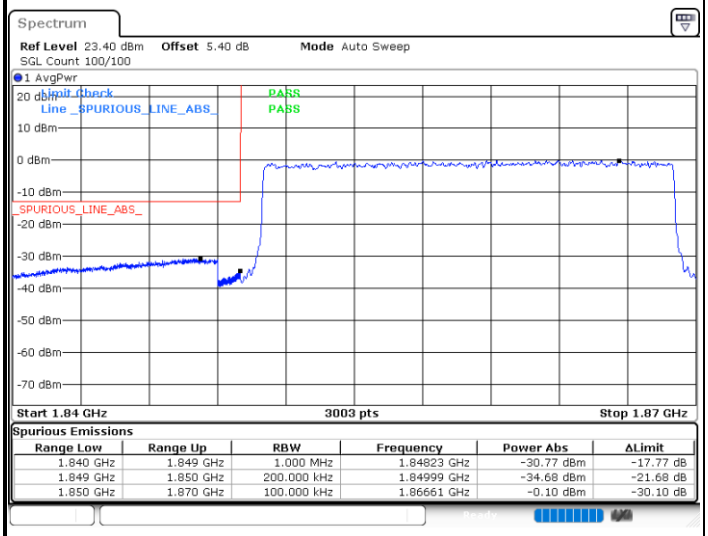
Lowest Band Edge / Full RB

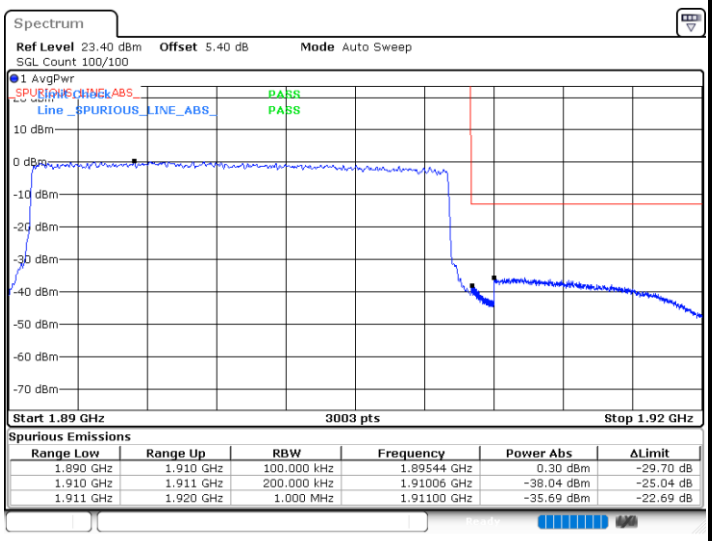


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.840 GHz	1.849 GHz	1.000 MHz	1.84823 GHz	-30.77 dBm	-17.77 dB
1.849 GHz	1.850 GHz	200.000 kHz	1.84999 GHz	-34.68 dBm	-21.68 dB
1.850 GHz	1.870 GHz	100.000 kHz	1.86661 GHz	-0.10 dBm	-30.10 dB

Date: 2.MAR.2022 09:07:47

Highest Band Edge / Full RB



Spurious Emissions

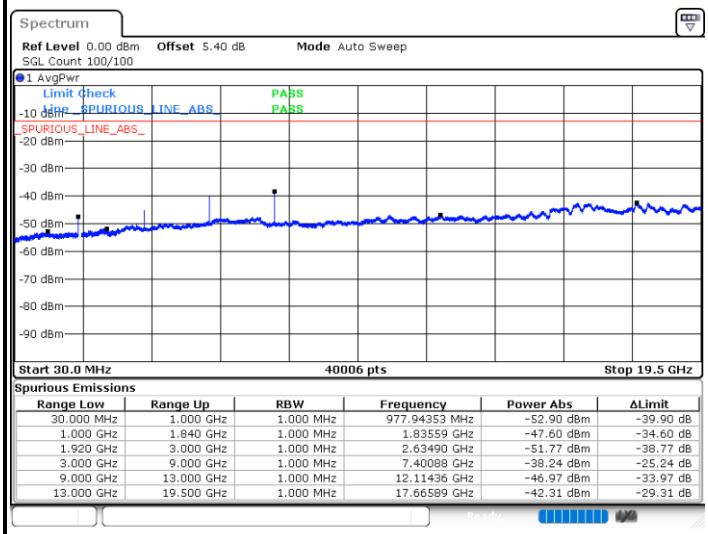
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.890 GHz	1.910 GHz	100.000 kHz	1.89544 GHz	0.30 dBm	-29.70 dB
1.910 GHz	1.911 GHz	200.000 kHz	1.91006 GHz	-38.04 dBm	-25.04 dB
1.911 GHz	1.920 GHz	1.000 MHz	1.91100 GHz	-35.69 dBm	-22.69 dB

Date: 2.MAR.2022 09:09:34

Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

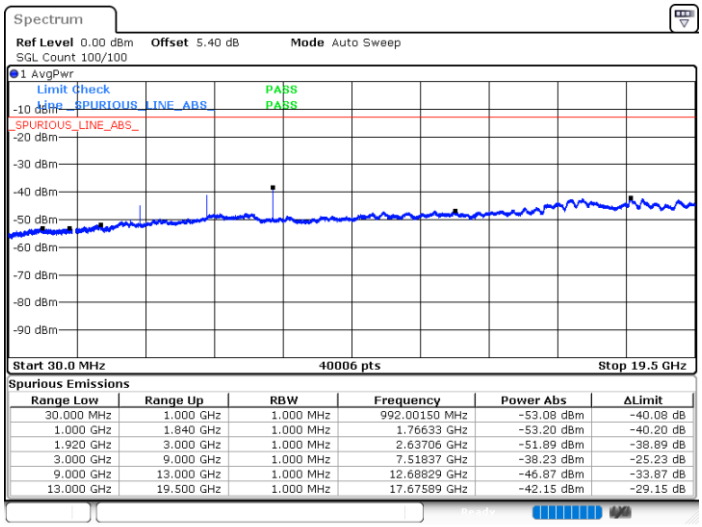


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.94353 MHz	-52.90 dBm	-39.90 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83559 GHz	-47.60 dBm	-34.60 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.63490 GHz	-51.77 dBm	-38.77 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.40088 GHz	-38.24 dBm	-25.24 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.11436 GHz	-46.97 dBm	-33.97 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66589 GHz	-42.31 dBm	-29.31 dB

Date: 2.MAR.2022 08:09:48

Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.00150 MHz	-53.08 dBm	-40.08 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76633 GHz	-53.20 dBm	-40.20 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.63706 GHz	-51.89 dBm	-38.89 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.51837 GHz	-38.23 dBm	-25.23 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68829 GHz	-46.87 dBm	-33.87 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.67589 GHz	-42.15 dBm	-29.15 dB

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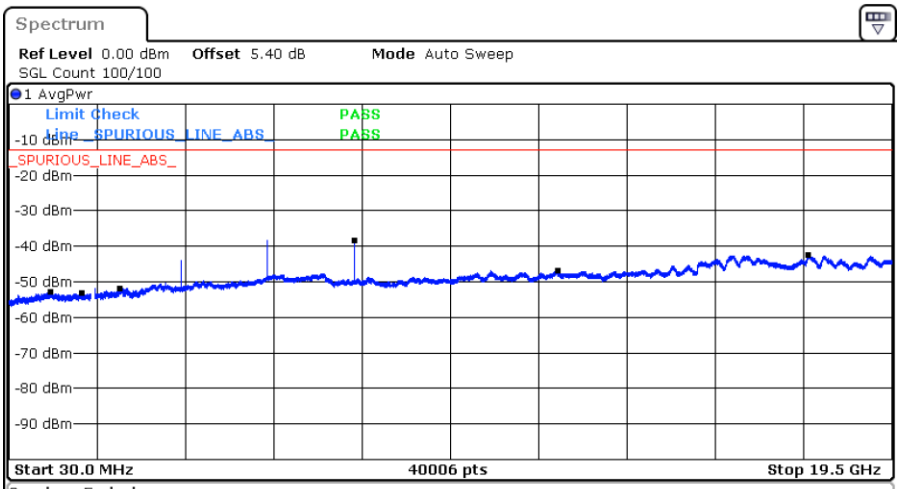
Highest Channel / QPSK



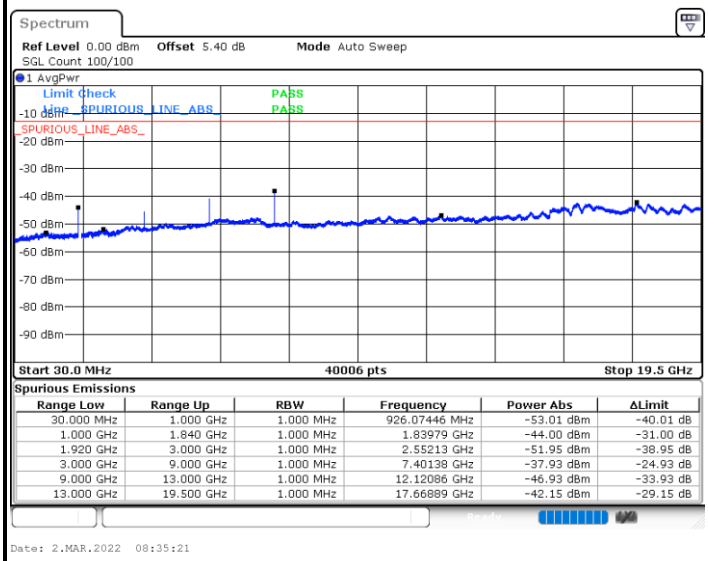
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.49525 MHz	-52.90 dBm	-39.90 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.62024 GHz	-53.24 dBm	-40.24 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.48087 GHz	-51.76 dBm	-38.76 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.63536 GHz	-38.26 dBm	-25.26 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.13236 GHz	-46.87 dBm	-33.87 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.65489 GHz	-42.30 dBm	-29.30 dB

Date: 2.MAR.2022 08:11:15

LTE Band 2 / 3MHz

Lowest Channel / QPSK

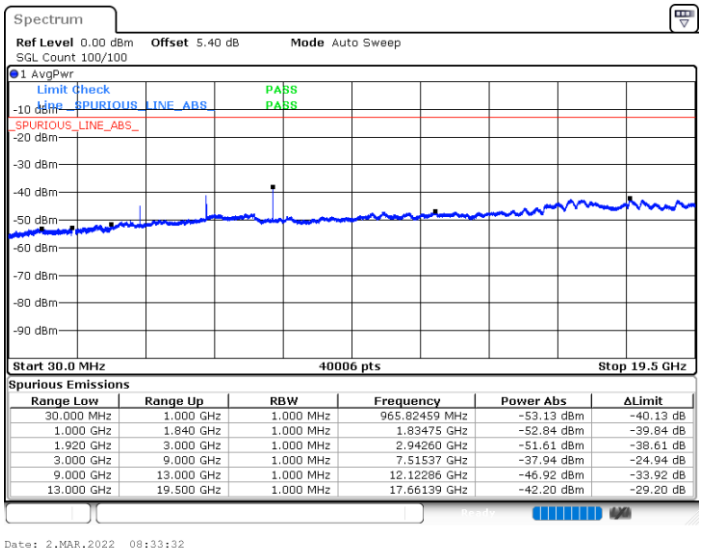


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	926.07446 MHz	-53.01 dBm	-40.01 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83979 GHz	-44.00 dBm	-31.00 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.55213 GHz	-51.95 dBm	-38.95 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.40138 GHz	-37.93 dBm	-24.93 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.12086 GHz	-46.93 dBm	-33.93 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66889 GHz	-42.15 dBm	-29.15 dB

Date: 2.MAR.2022 08:35:21

Middle Channel / QPSK

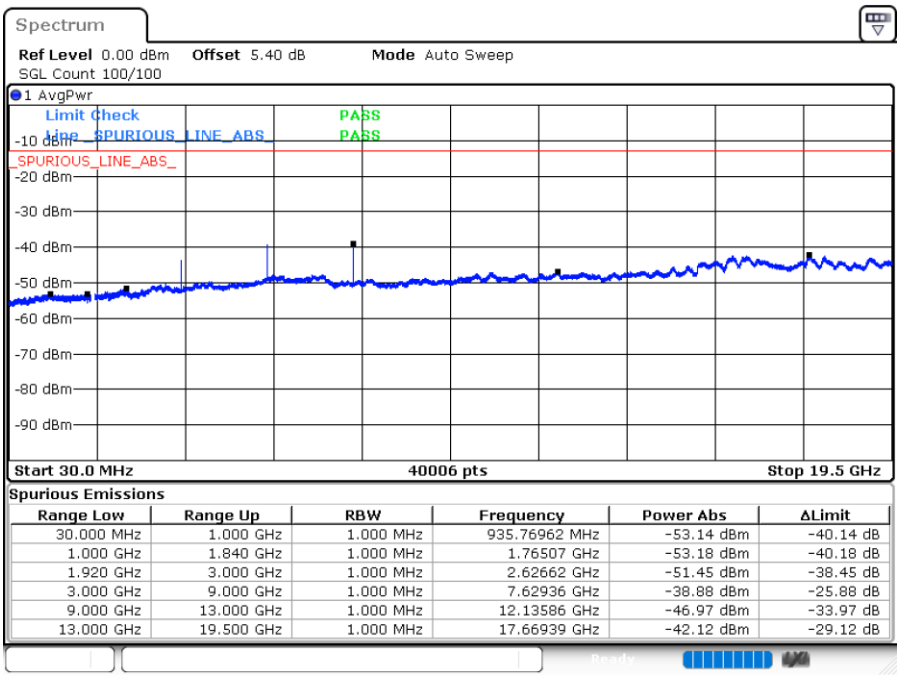


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-53.13 dBm	-40.13 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83475 GHz	-52.84 dBm	-39.84 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.94260 GHz	-51.61 dBm	-38.61 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.51537 GHz	-37.94 dBm	-24.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.12286 GHz	-46.92 dBm	-33.92 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66139 GHz	-42.20 dBm	-29.20 dB

Date: 2.MAR.2022 08:33:32

Highest Channel / QPSK



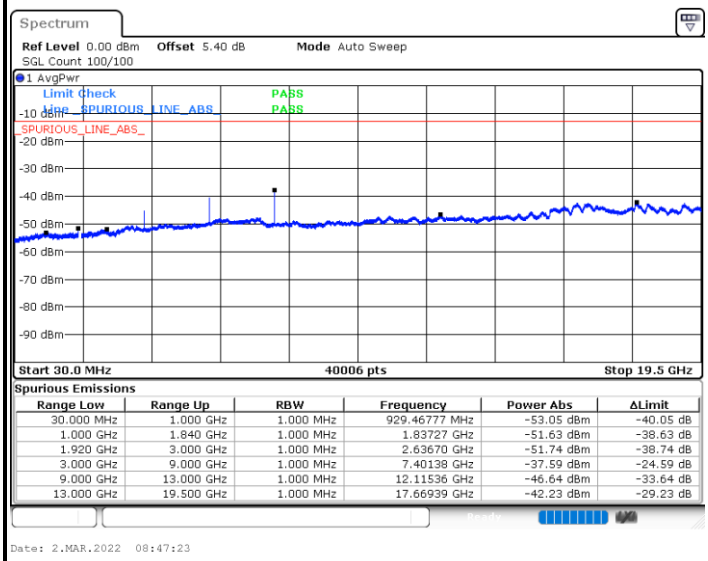
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.76962 MHz	-53.14 dBm	-40.14 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.76507 GHz	-53.18 dBm	-40.18 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.62662 GHz	-51.45 dBm	-38.45 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.62936 GHz	-38.88 dBm	-25.88 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.13586 GHz	-46.97 dBm	-33.97 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66939 GHz	-42.12 dBm	-29.12 dB

Date: 2.MAR.2022 08:41:20

LTE Band 2 / 5MHz

Lowest Channel / QPSK

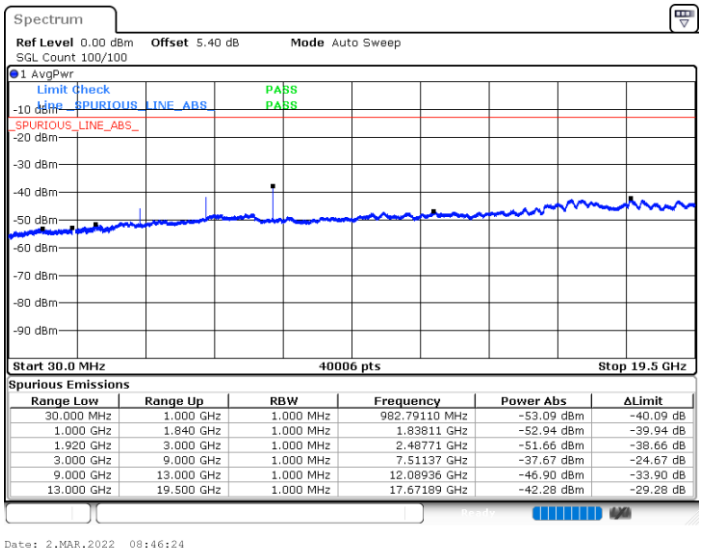


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	929.46777 MHz	-53.05 dBm	-40.05 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83727 GHz	-51.63 dBm	-38.63 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.63670 GHz	-51.74 dBm	-38.74 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.40138 GHz	-37.59 dBm	-24.59 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.11536 GHz	-46.64 dBm	-33.64 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66939 GHz	-42.23 dBm	-29.23 dB

Date: 2.MAR.2022 08:47:23

Middle Channel / QPSK

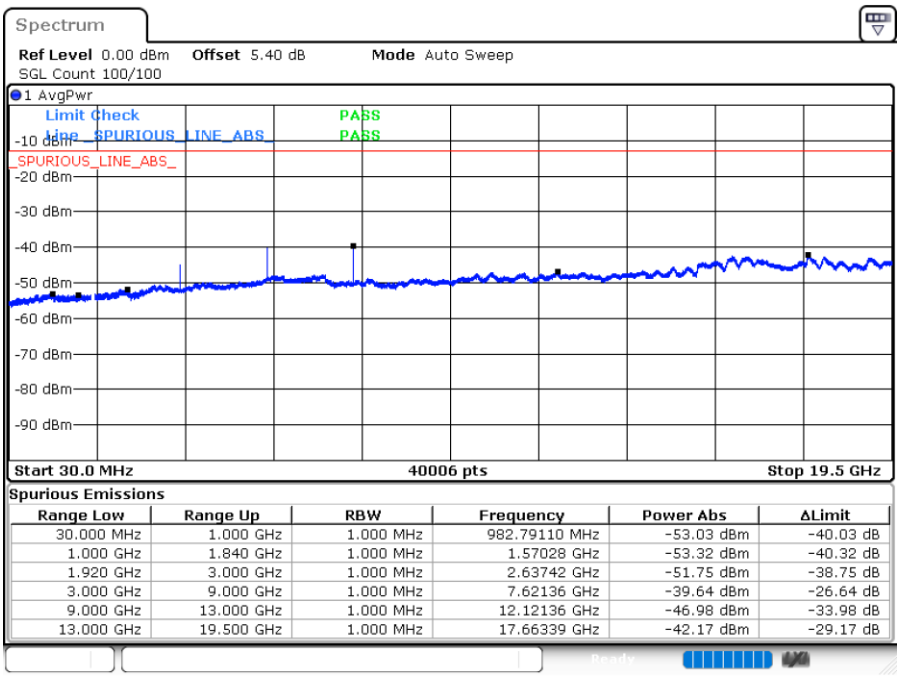


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-53.09 dBm	-40.09 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.83811 GHz	-52.94 dBm	-39.94 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.48771 GHz	-51.66 dBm	-38.66 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.51137 GHz	-37.67 dBm	-24.67 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.08936 GHz	-46.90 dBm	-33.90 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.67189 GHz	-42.28 dBm	-29.28 dB

Date: 2.MAR.2022 08:46:24

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.79110 MHz	-53.03 dBm	-40.03 dB
1.000 GHz	1.840 GHz	1.000 MHz	1.57028 GHz	-53.32 dBm	-40.32 dB
1.920 GHz	3.000 GHz	1.000 MHz	2.63742 GHz	-51.75 dBm	-38.75 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.62136 GHz	-39.64 dBm	-26.64 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.12136 GHz	-46.98 dBm	-33.98 dB
13.000 GHz	19.500 GHz	1.000 MHz	17.66339 GHz	-42.17 dBm	-29.17 dB

Date: 2.MAR.2022 08:50:24