FCC RF Test Report

APPLICANT	:	Sonim Technologies, Inc.
EQUIPMENT	:	Smartphone
BRAND NAME	:	Sonim
MODEL NAME	:	X802
FCC ID	:	WYPS3111
STANDARD	:	47 CFR Part 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Nov. 12, 2024 ~ Jan. 24, 2025

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.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen)

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

Approved by: Jason Jia

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

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 5
1.5 Modification of EUT 5
1.6 Maximum Conducted Power and Emission Designator 6
1.7 Testing Site 6
1.8 Test Software 7
1.9 Applied Standards 7

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **8**

2.1 Test Mode 8
2.2 Connection Diagram of Test System 9
2.3 Support Unit used in test configuration and system 9
2.4 Measurement Results Explanation Example 9
2.5 Frequency List of Low/Middle/High Channels 10

3 TEST RESULT **11**

3.1 Conducted Output Power Measurement 11
3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement 12
3.3 Emissions Mask Measurement 13
3.4 Emissions Mask – Out Of Band Emissions Measurement 15
3.5 Field Strength of Spurious Radiation Measurement 16
3.6 Frequency Stability Measurement 19

4 LIST OF MEASURING EQUIPMENT **21**

5 MEASUREMENT UNCERTAINTY **22**

APPENDIX A. TEST RESULTS OF CONDUCTED TEST

APPENDIX B. TEST RESULTS OF RADIATED TEST

APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4O2403F	Rev. 01	Initial issue of report	May 22, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	—	Report only	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	—	Report only	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log$_{10}$(P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log$_{10}$(P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 36.14 dB at 2451.75 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Sonim Technologies, Inc.
4445 Eastgate Mall,Suite200,San Diego,CA92121,USA

1.2 Manufacturer

Sonim Technologies, Inc.
4445 Eastgate Mall,Suite200,San Diego,CA92121,USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Smartphone
Brand Name	Sonim
Model Name	X802
FCC ID	WYPS3111
HW Version	V1.0
SW Version	X80.0-01-14.0-42.18.00
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx Frequency	814 ~ 824 MHz
Rx Frequency	859 ~ 869 MHz
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to Antenna	<Ant1>: 23.76 dBm
Antenna Gain	<Ant1>: -6.26 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

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

1.6 Maximum Conducted Power and Emission Designator

LTE Band 26		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
1.4	814.7 ~ 823.3	0.2223	1M09G7D	0.1807	1M09W7D
3	815.5 ~ 822.5	0.2239	2M72G7D	0.1782	2M74W7D
5	816.5 ~ 821.5	0.2218	4M49G7D	0.1795	4M49W7D
10	819.0	0.2265	8M99G7D	0.1824	9M05W7D
15	824	0.2377	13M4G7D	0.1862	13M4W7D

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Site

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		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-KS	CN1257	314309

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

Test data subcontracted: Radiated Spurious Emission test case in section 3.5 of this report

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.9 Applied Standards

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

- 47 CFR 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r02

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

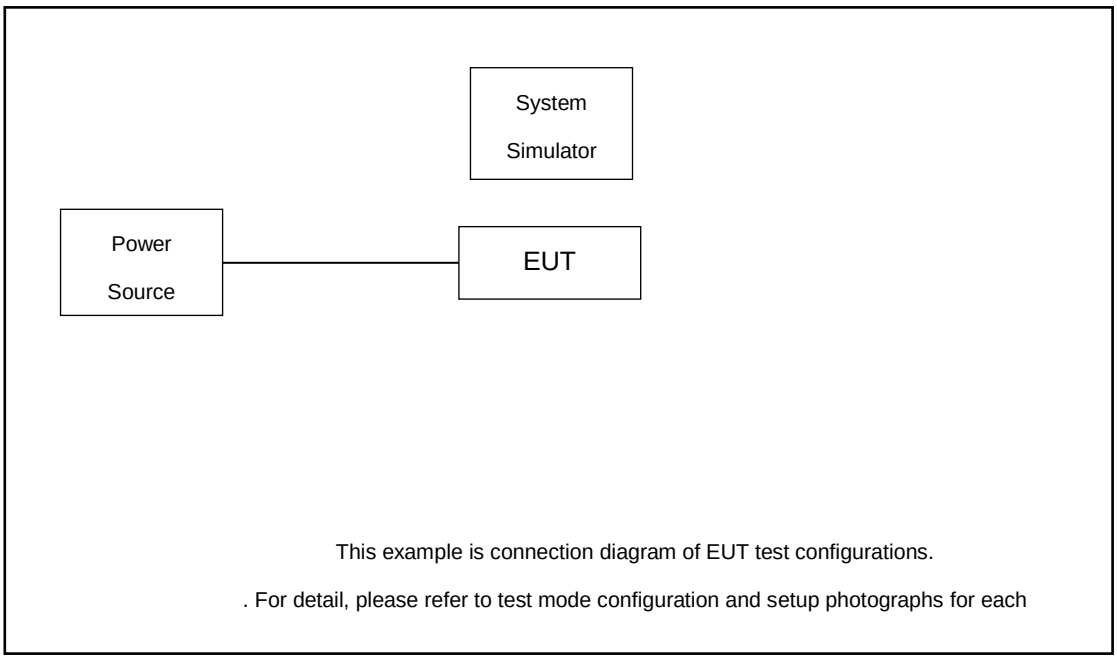
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz. (Z Plane)

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v					v		v	
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	v	v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v				v			v	v	v
Frequency Stability	26				v		-	v						v		v	
Radiated Spurious Emission	26	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. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz. ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.60 dB.

Example :

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

= 4.60 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

LTE Band 26 Cross-rule Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**-**	**Middle**	**-**
15	Channel	-	26790	-
	Frequency	-	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-
3	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

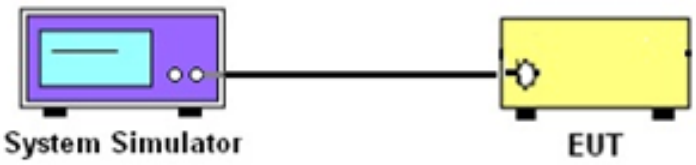
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% 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 emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

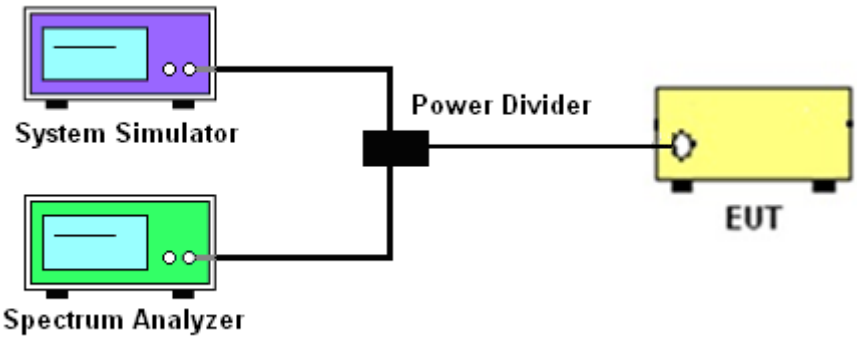
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $Log_{10}(f/6.1)$ decibels or 50 + 10 $Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + $10Log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

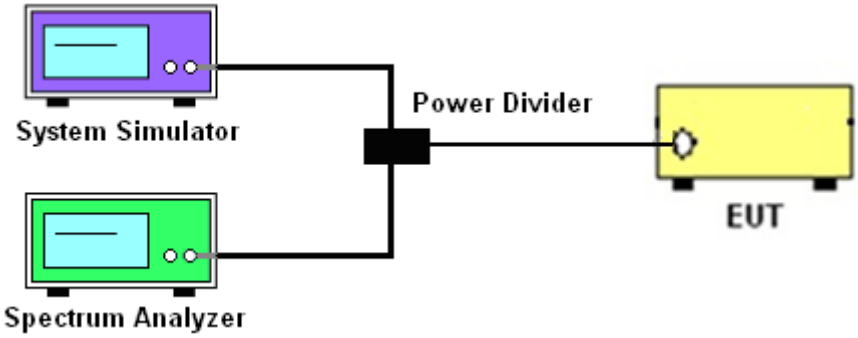
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

3.4 Emissions Mask – Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

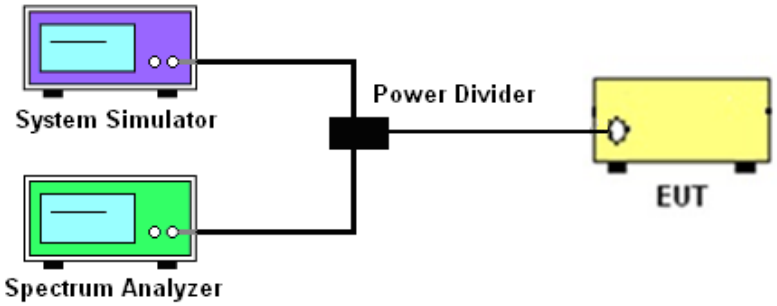
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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 $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

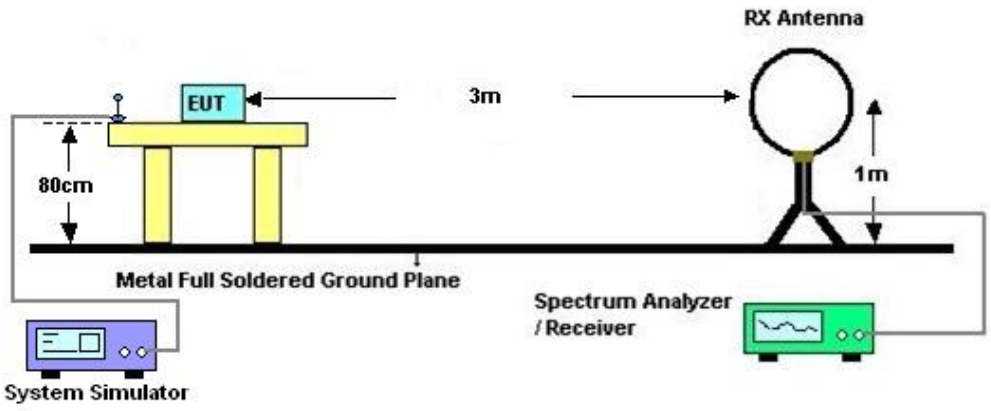
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

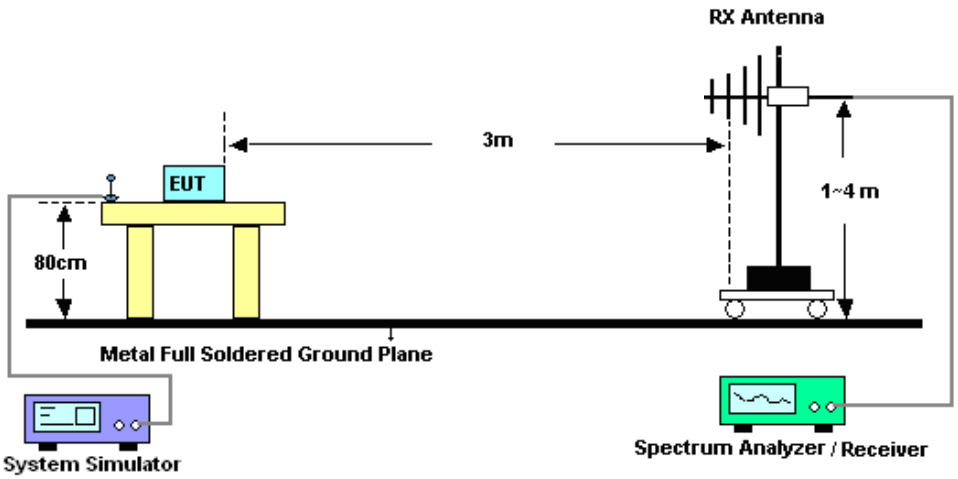
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
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.
13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

3.5.4 Test Setup

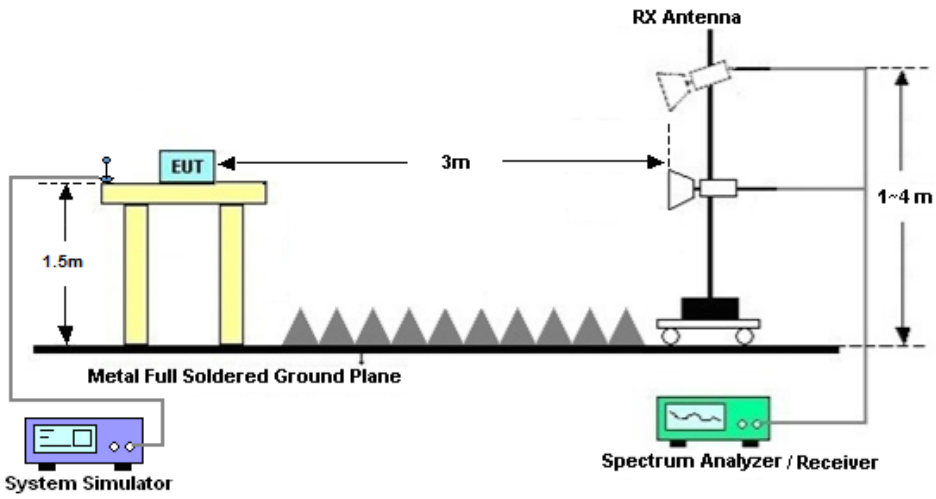
For radiated test from 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

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.

3.6 Frequency Stability Measurement

3.6.1 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 according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

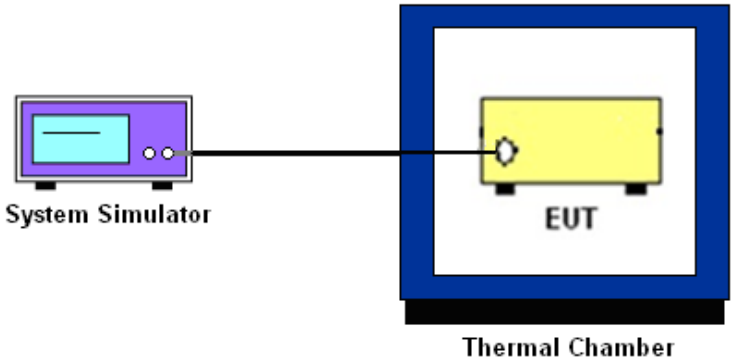
3.6.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the base station.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
3. 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.

3.6.4 Test Procedures for Voltage Variation

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

3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

4 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. 10, 2024	Nov. 12, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Nov. 12, 2024	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Nov. 12, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Jan. 24, 2025	Jul. 02, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jan. 24, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Jan. 24, 2025	Oct. 13, 2025	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Jan. 24, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jan. 24, 2025	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Jan. 24, 2025	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	Jan. 24, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jan. 24, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Jan. 24, 2025	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Jan. 24, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 24, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 24, 2025	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

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 Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.90 dB
Frequency Stability	±0.04ppm

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.48 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.53 dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.02 dB

---------- THE END ----------

Appendix A. Test Results of Conducted Test

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

Conducted Output Power (Average power)

LTE Band 26_Ant1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26790		
Frequency (MHz)				824		
15	QPSK	1	0	23.76		
15	QPSK	1	37	23.43		
15	QPSK	1	74	23.46		
15	QPSK	36	0	22.67		
15	QPSK	36	20	22.48		
15	QPSK	36	39	22.52		
15	QPSK	75	0	22.66		
15	16QAM	1	0	22.64		
15	16QAM	1	37	22.51		
15	16QAM	1	74	22.70		
15	16QAM	36	0	21.55		
15	16QAM	36	20	21.39		
15	16QAM	36	39	21.63		
15	16QAM	75	0	21.58		
15	64QAM	1	0	21.63		
15	64QAM	1	37	21.50		
15	64QAM	1	74	21.46		
15	64QAM	36	0	20.40		
15	64QAM	36	20	20.50		
15	64QAM	36	39	20.39		
15	64QAM	75	0	20.41		
15	256QAM	1	0	18.45		
15	256QAM	1	37	18.41		
15	256QAM	1	74	18.56		
15	256QAM	36	0	18.29		
15	256QAM	36	20	18.44		
15	256QAM	36	39	18.44		
15	256QAM	75	0	18.57		
Channel					26740	
Frequency (MHz)					819	
10	QPSK	1	0		23.55	
10	QPSK	1	25		23.33	
10	QPSK	1	49		23.31	
10	QPSK	25	0		22.21	
10	QPSK	25	12		22.55	

10	QPSK	25	25		22.29	
10	QPSK	50	0		22.47	
10	16QAM	1	0		22.61	
10	16QAM	1	25		22.50	
10	16QAM	1	49		22.57	
10	16QAM	25	0		21.27	
10	16QAM	25	12		21.66	
10	16QAM	25	25		21.47	
10	16QAM	50	0		21.74	
10	64QAM	1	0		21.73	
10	64QAM	1	25		21.46	
10	64QAM	1	49		21.41	
10	64QAM	25	0		20.35	
10	64QAM	25	12		20.41	
10	64QAM	25	25		20.52	
10	64QAM	50	0		20.47	
10	256QAM	1	0		18.37	
10	256QAM	1	25		18.16	
10	256QAM	1	49		18.45	
10	256QAM	25	0		18.32	
10	256QAM	25	12		18.11	
10	256QAM	25	25		18.30	
10	256QAM	50	0		18.22	
Channel				26715	26740	26765
Frequency (MHz)				816.5	819	821.5
5	QPSK	1	0	23.46	23.42	23.42
5	QPSK	1	12	23.25	23.21	23.21
5	QPSK	1	24	23.17	23.20	23.28
5	QPSK	12	0	22.14	22.18	22.16
5	QPSK	12	7	22.41	22.43	22.49
5	QPSK	12	13	22.27	22.15	22.24
5	QPSK	25	0	22.33	22.44	22.36
5	16QAM	1	0	22.49	22.48	22.53
5	16QAM	1	12	22.41	22.47	22.45
5	16QAM	1	24	22.54	22.52	22.47
5	16QAM	12	0	21.22	21.18	21.15
5	16QAM	12	7	21.54	21.62	21.62
5	16QAM	12	13	21.38	21.44	21.39
5	16QAM	25	0	21.65	21.61	21.62
5	64QAM	1	0	21.65	21.62	21.68
5	64QAM	1	12	21.36	21.43	21.34
5	64QAM	1	24	21.32	21.35	21.35
5	64QAM	12	0	20.29	20.27	20.28
5	64QAM	12	7	20.37	20.29	20.37
5	64QAM	12	13	20.48	20.40	20.41
5	64QAM	25	0	20.41	20.41	20.42
5	256QAM	1	0	18.31	18.25	18.31
5	256QAM	1	12	18.13	18.07	18.08
5	256QAM	1	24	18.42	18.39	18.35
5	256QAM	12	0	18.24	18.29	18.22

5	256QAM	12	7	18.09	18.07	18.05
5	256QAM	12	13	18.25	18.20	18.20
5	256QAM	25	0	18.11	18.15	18.12
Channel				26705	26740	26775
Frequency (MHz)				815.5	819	822.5
3	QPSK	1	0	23.50	23.44	23.45
3	QPSK	1	8	23.27	23.27	23.24
3	QPSK	1	14	23.20	23.27	23.23
3	QPSK	8	0	22.08	22.08	22.14
3	QPSK	8	4	22.46	22.45	22.49
3	QPSK	8	7	22.26	22.21	22.16
3	QPSK	15	0	22.36	22.41	22.38
3	16QAM	1	0	22.51	22.47	22.48
3	16QAM	1	8	22.40	22.47	22.41
3	16QAM	1	14	22.44	22.47	22.49
3	16QAM	8	0	21.16	21.22	21.19
3	16QAM	8	4	21.58	21.63	21.53
3	16QAM	8	7	21.39	21.45	21.42
3	16QAM	15	0	21.69	21.62	21.64
3	64QAM	1	0	21.64	21.62	21.62
3	64QAM	1	8	21.43	21.38	21.38
3	64QAM	1	14	21.31	21.38	21.37
3	64QAM	8	0	20.23	20.31	20.31
3	64QAM	8	4	20.31	20.27	20.28
3	64QAM	8	7	20.48	20.42	20.47
3	64QAM	15	0	20.37	20.40	20.38
3	256QAM	1	0	18.31	18.32	18.30
3	256QAM	1	8	18.12	18.10	18.03
3	256QAM	1	14	18.36	18.35	18.32
3	256QAM	8	0	18.26	18.22	18.21
3	256QAM	8	4	18.04	17.97	17.99
3	256QAM	8	7	18.27	18.20	18.17
3	256QAM	15	0	18.11	18.08	18.15
Channel				26697	26740	26783
Frequency (MHz)				814.7	819	823.3
1.4	QPSK	1	0	23.47	23.44	23.47
1.4	QPSK	1	3	23.21	23.29	23.26
1.4	QPSK	1	5	23.22	23.21	23.18
1.4	QPSK	3	0	22.10	22.14	22.14
1.4	QPSK	3	1	22.43	22.45	22.42
1.4	QPSK	3	3	22.23	22.17	22.16
1.4	QPSK	6	0	22.39	22.33	22.38
1.4	16QAM	1	0	22.51	22.57	22.55
1.4	16QAM	1	3	22.37	22.42	22.45
1.4	16QAM	1	5	22.43	22.45	22.50
1.4	16QAM	3	0	21.15	21.14	21.17
1.4	16QAM	3	1	21.55	21.54	21.58
1.4	16QAM	3	3	21.37	21.40	21.39
1.4	16QAM	6	0	21.69	21.62	21.66
1.4	64QAM	1	0	21.64	21.67	21.67

1.4	64QAM	1	3	21.41	21.36	21.39
1.4	64QAM	1	5	21.30	21.33	21.36
1.4	64QAM	3	0	20.27	20.26	20.30
1.4	64QAM	3	1	20.33	20.37	20.29
1.4	64QAM	3	3	20.48	20.48	20.38
1.4	64QAM	6	0	20.44	20.42	20.35
1.4	256QAM	1	0	18.34	18.25	18.31
1.4	256QAM	1	3	18.13	18.13	18.13
1.4	256QAM	1	5	18.33	18.36	18.36
1.4	256QAM	3	0	18.30	18.24	18.28
1.4	256QAM	3	1	18.02	18.03	18.04
1.4	256QAM	3	3	18.21	18.23	18.17
1.4	256QAM	6	0	18.14	18.16	18.14

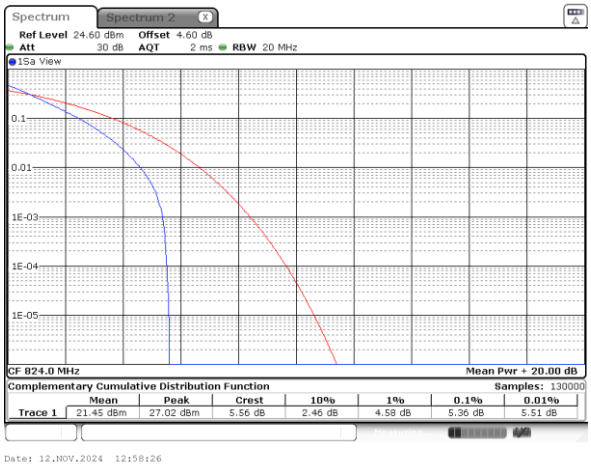
LTE Band 26_Part 90S

Peak-to-Average Ratio

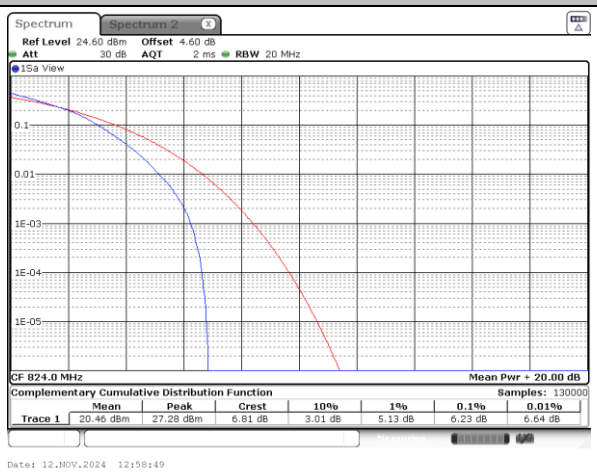
Mode	LTE Band 26 / 15MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
High CH	5.36	6.23	6.64	6.64	PASS

LTE Band 26 / 15MHz

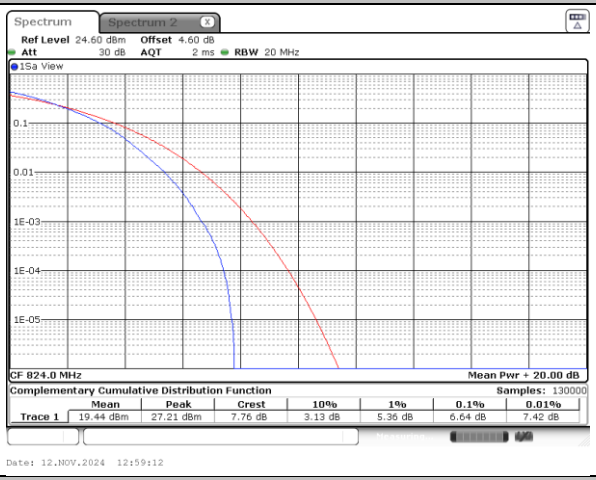
High Channel / Full RB / QPSK



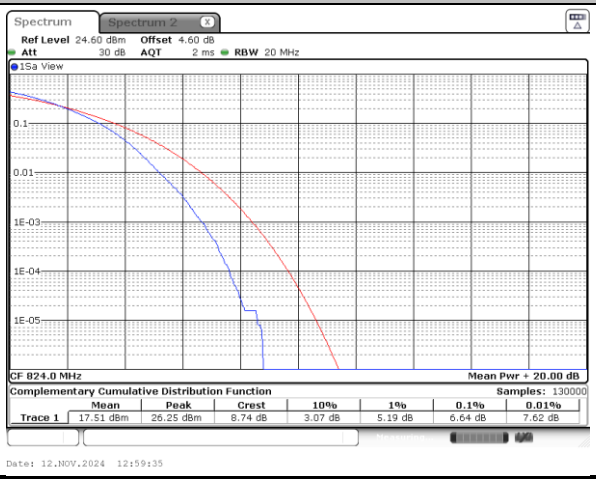
High Channel / Full RB / 16QAM



High Channel / Full RB / 64QAM



High Channel / Full RB / 256QAM

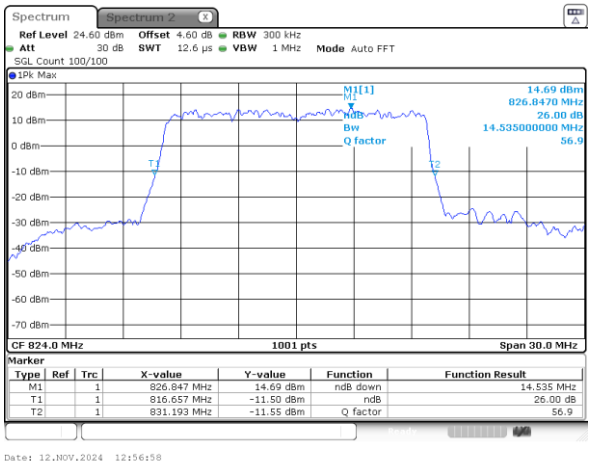


26dB Bandwidth

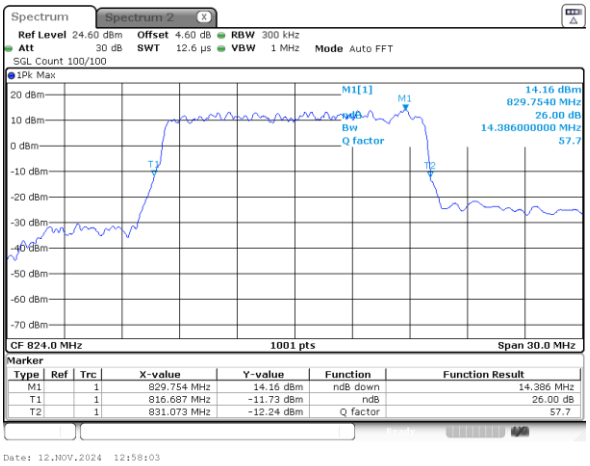
Mode	LTE Band 26 : 26dB BW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
Hig CH	14.54	14.39
BW	10MHz	
Mod.	QPSK	16QAM
Mid CH	9.87	9.97
BW	5MHz	
Mod.	QPSK	16QAM
Mid CH	5.12	5.08
BW	3MHz	
Mod.	QPSK	16QAM
Mid CH	3.06	3.10
BW	1.4MHz	
Mod.	QPSK	16QAM
Mid CH	1.32	1.38

LTE Band 26

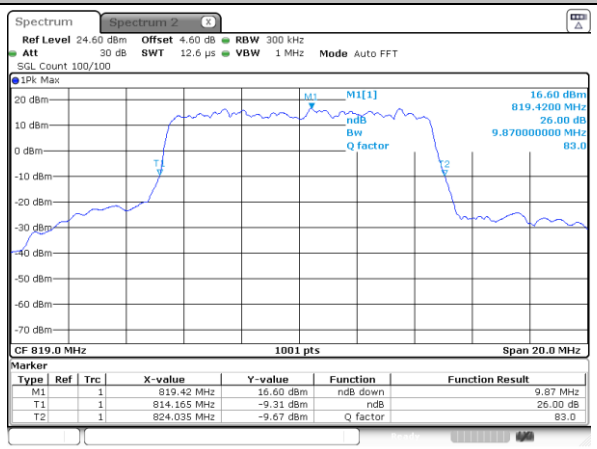
Highest Channel / 15MHz / QPSK



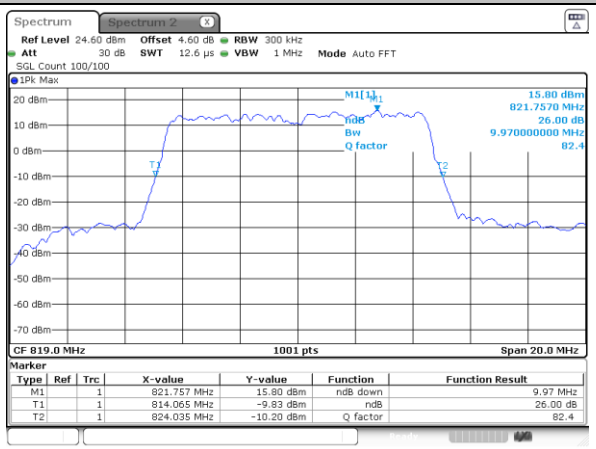
Highest Channel / 15MHz / 16QAM



Middle Channel / 10MHz / QPSK

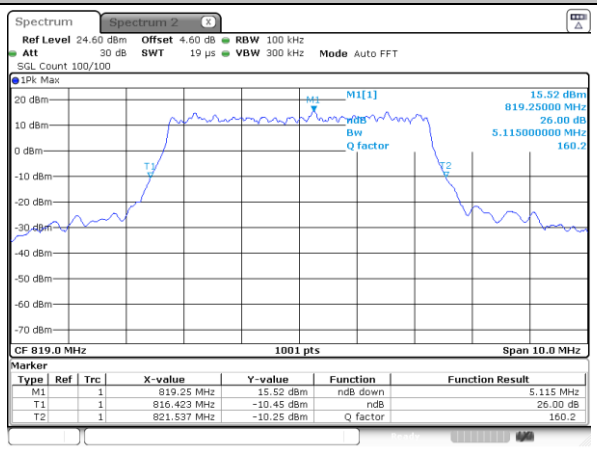


Middle Channel / 10MHz / 16QAM

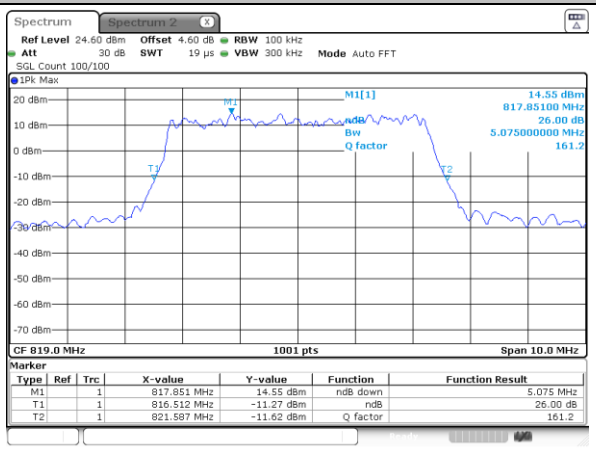


LTE Band 26

Middle Channel / 5MHz / QPSK

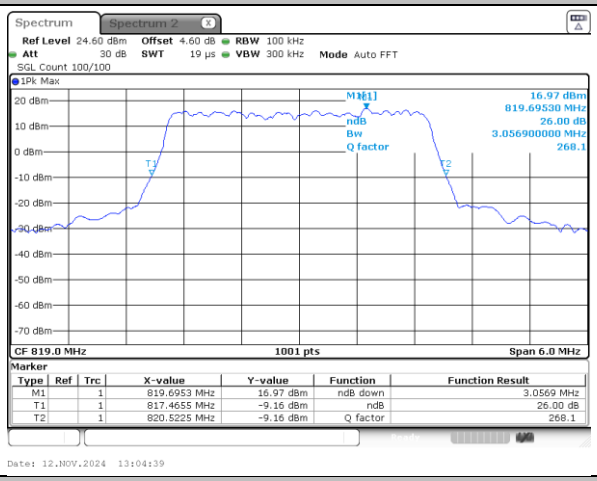


Middle Channel / 5MHz / 16QAM

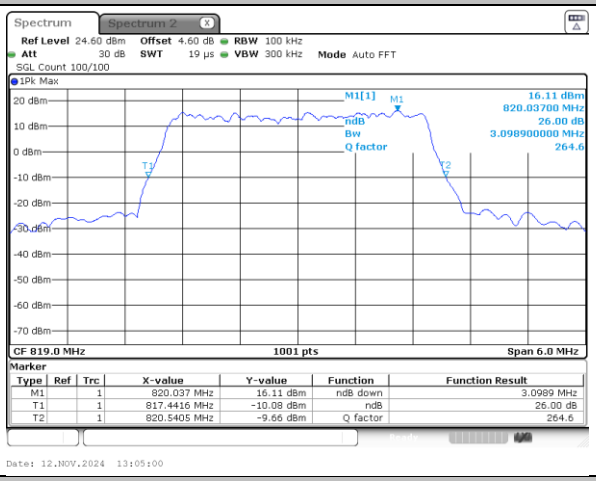


LTE Band 26

Middle Channel / 3MHz / QPSK

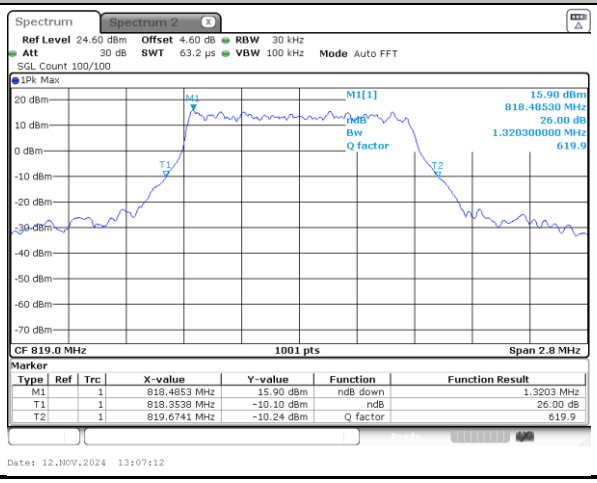


Middle Channel / 3MHz / 16QAM

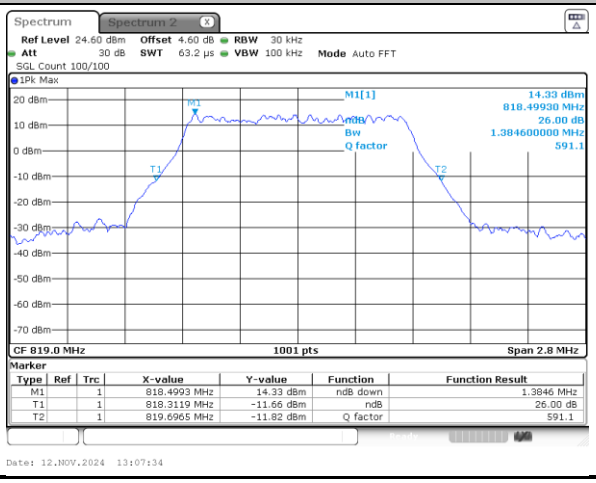


LTE Band 26

Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM

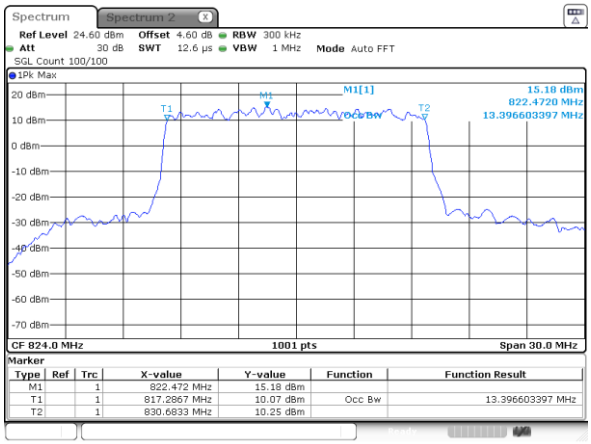


Occupied Bandwidth

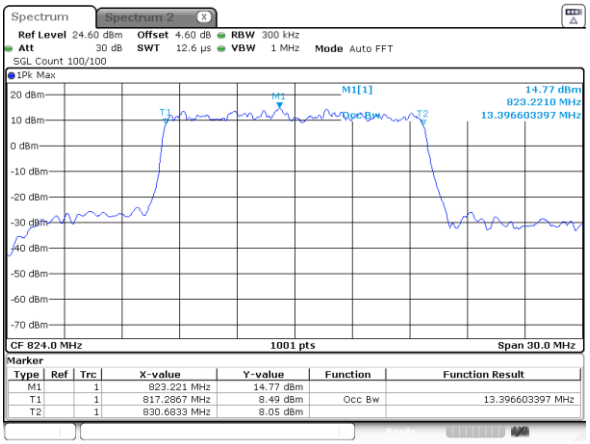
Mode	LTE Band 26 : 99%OBW(MHz)	
BW	15MHz	
Mod.	QPSK	16QAM
HigCH	13.40	13.40
BW	10MHz	
Mod.	QPSK	16QAM
Mid CH	8.99	9.05
BW	5MHz	
Mod.	QPSK	16QAM
Mid CH	4.49	4.49
BW	3MHz	
Mod.	QPSK	16QAM
Mid CH	2.72	2.74
BW	1.4MHz	
Mod.	QPSK	16QAM
Mid CH	1.09	1.09

LTE Band 26

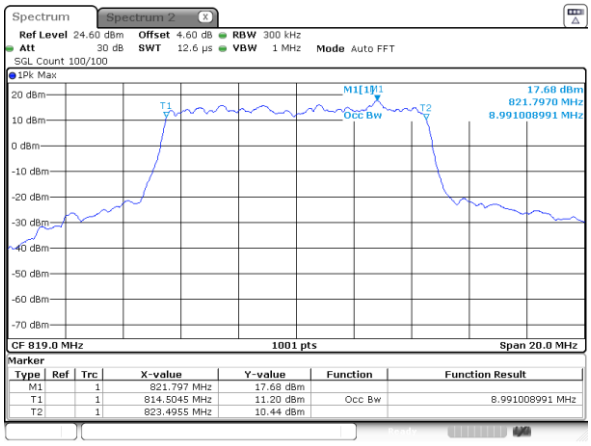
Highest Channel / 15MHz / QPSK



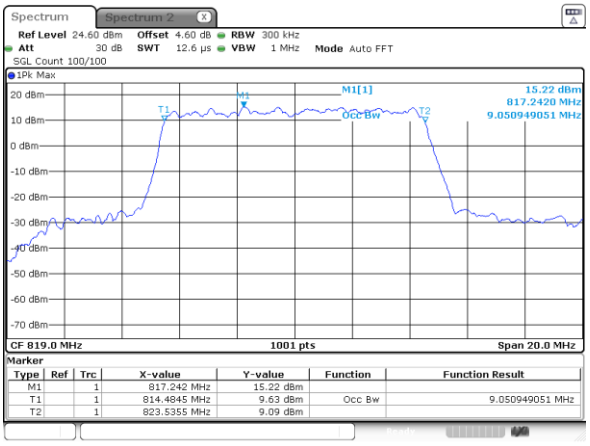
Highest Channel / 15MHz / 16QAM



Middle Channel / 10MHz / QPSK

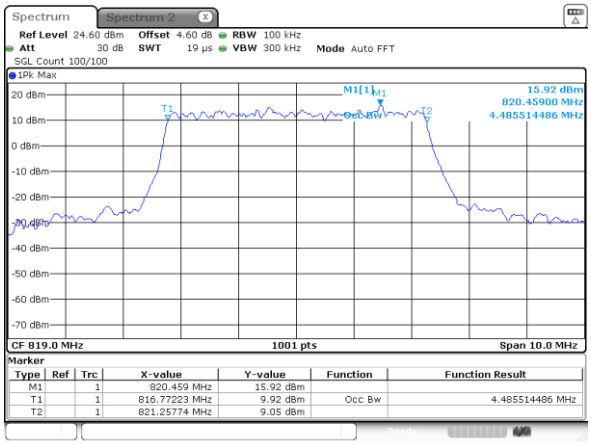


Middle Channel / 10MHz / 16QAM

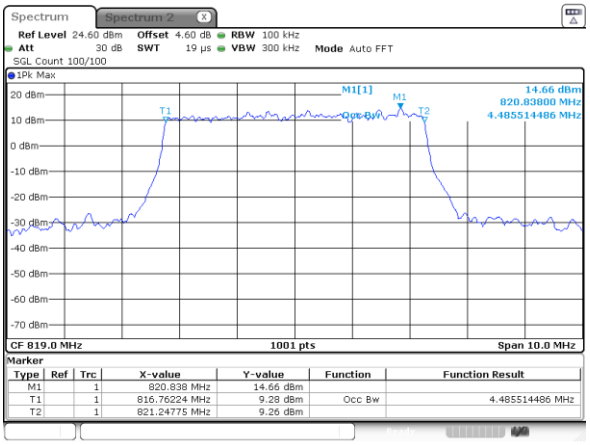


LTE Band 26

Middle Channel / 5MHz / QPSK

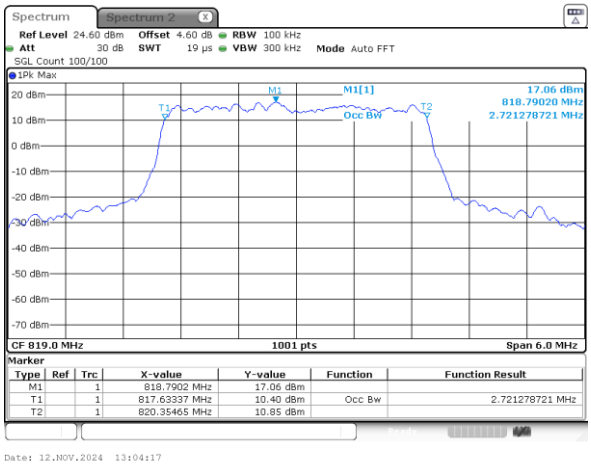


Middle Channel / 5MHz / 16QAM

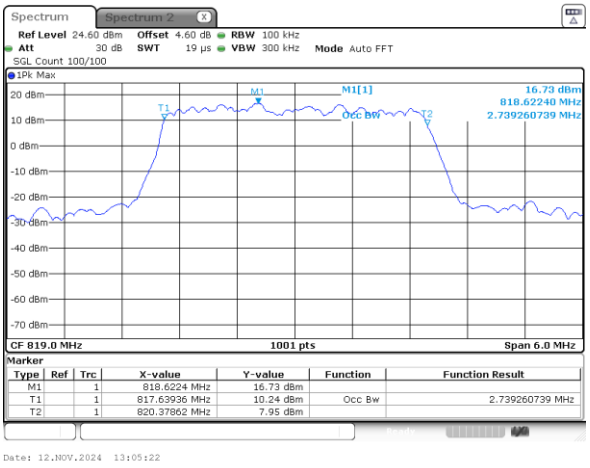


LTE Band 26

Middle Channel / 3MHz / QPSK

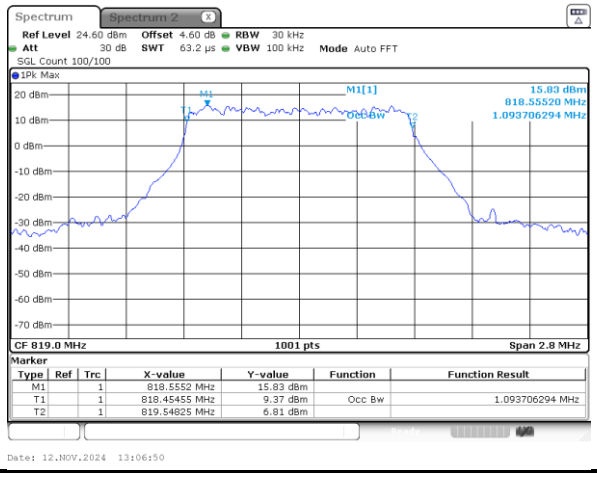


Middle Channel / 3MHz / 16QAM

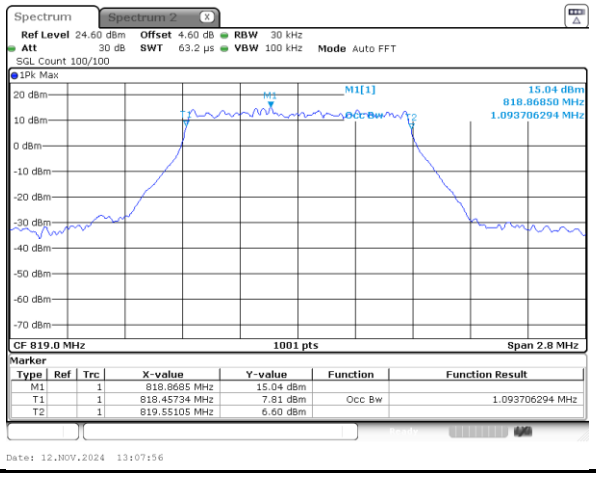


LTE Band 26

Middle Channel / 1.4MHz / QPSK



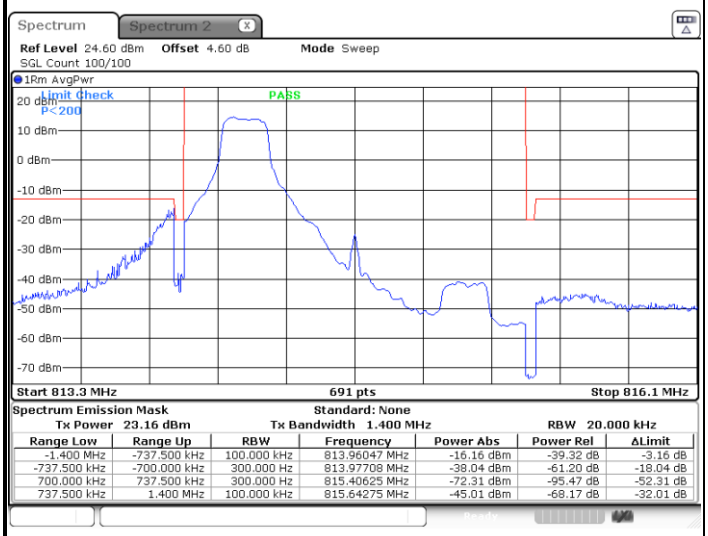
Middle Channel / 1.4MHz / 16QAM



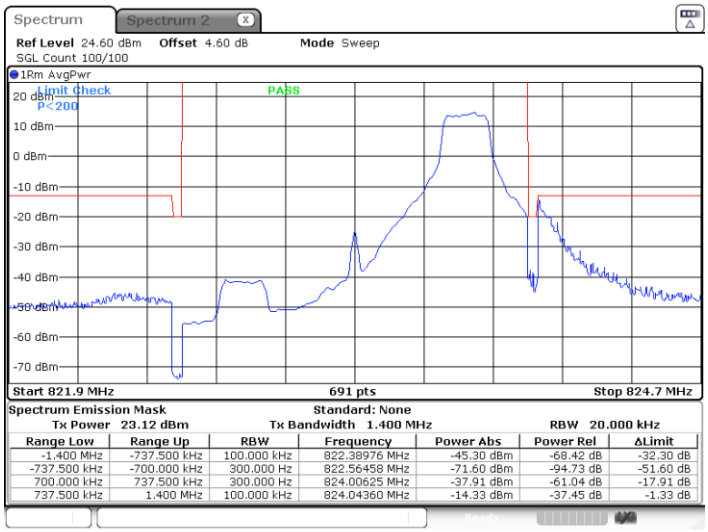
Conducted Band Edge

LTE Band 26 / 1.4MHz / QPSK

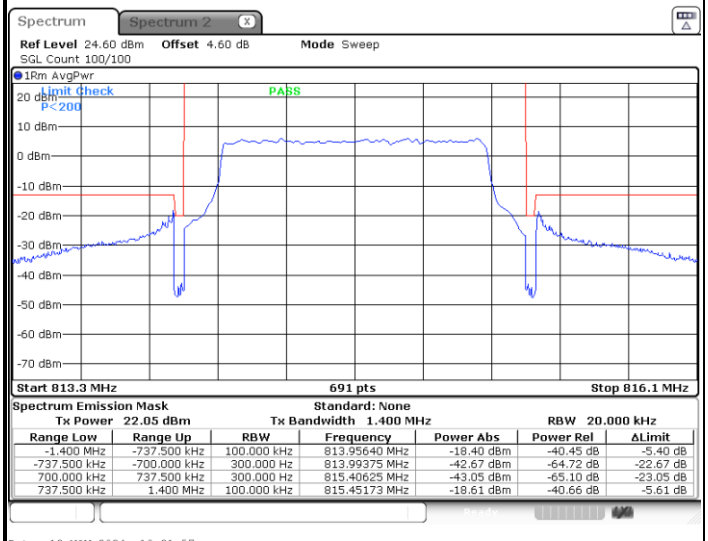
Lowest Band Edge / 1RB



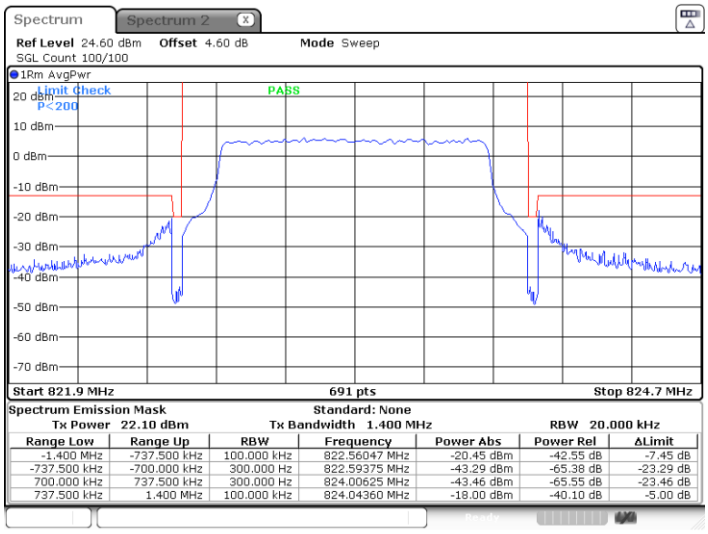
Highest Band Edge / 1RB



Lowest Band Edge / Full RB

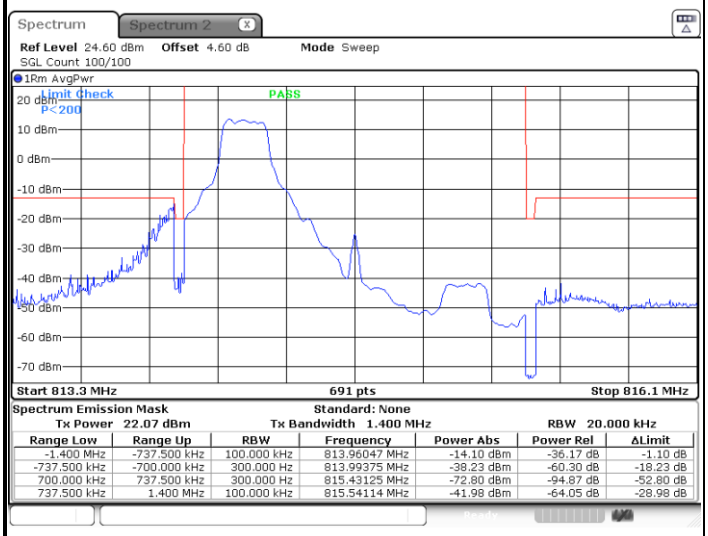


Highest Band Edge / Full RB



LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

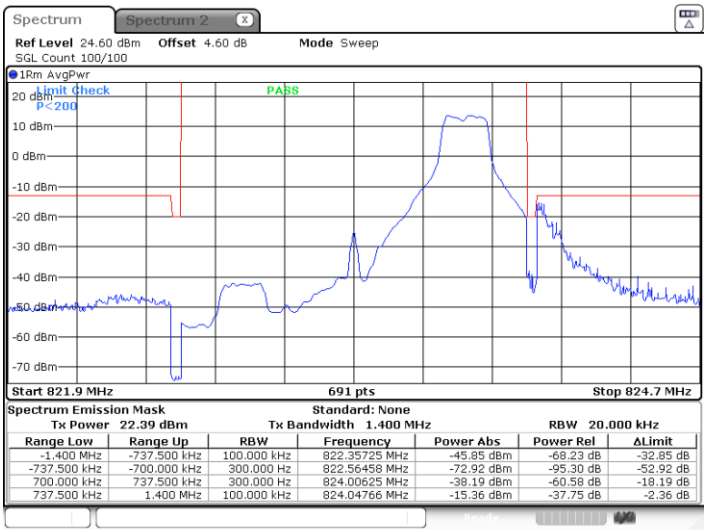


Spectrum Emission Mask Standard: None
Tx Power 22.07 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-14.10 dBm	-36.17 dB	-1.10 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-38.23 dBm	-60.30 dB	-18.23 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.43125 MHz	-72.80 dBm	-94.87 dB	-52.80 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.54114 MHz	-41.98 dBm	-64.05 dB	-28.98 dB

Date: 12.NOV.2024 10:15:53

Highest Band Edge / 1 RB

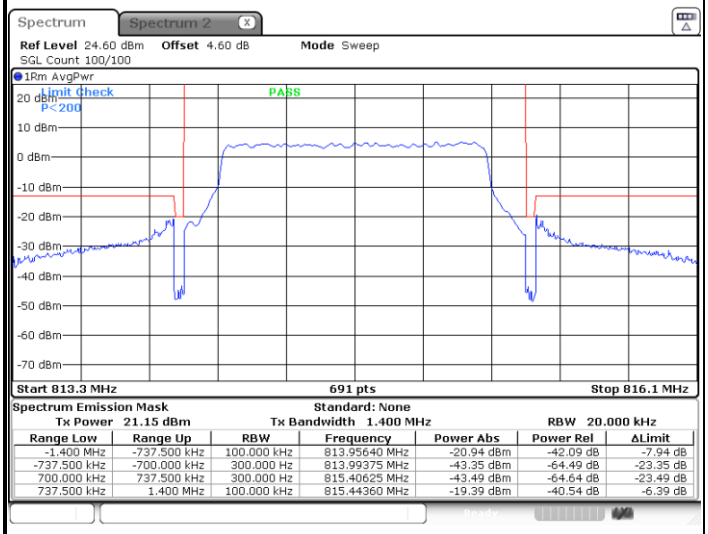


Spectrum Emission Mask Standard: None
Tx Power 22.39 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.35725 MHz	-45.85 dBm	-68.23 dB	-32.85 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.56458 MHz	-72.92 dBm	-95.30 dB	-52.92 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-38.19 dBm	-60.58 dB	-18.19 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04766 MHz	-15.36 dBm	-37.75 dB	-2.36 dB

Date: 12.NOV.2024 10:32:44

Lowest Band Edge / Full RB

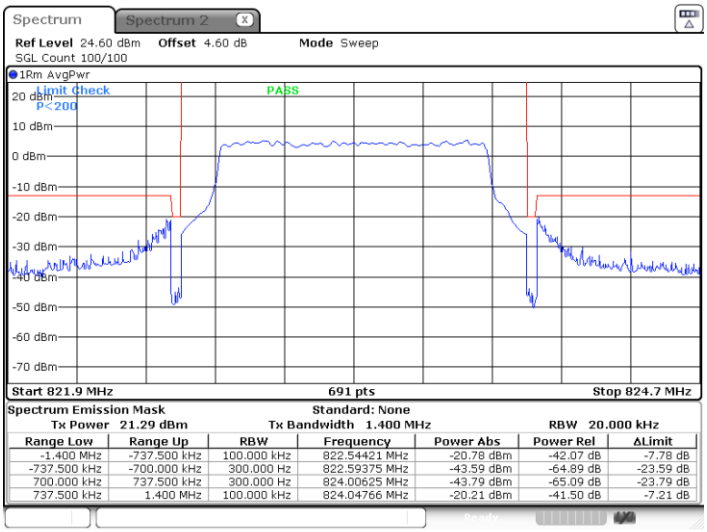


Spectrum Emission Mask Standard: None
Tx Power 21.15 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.95640 MHz	-20.94 dBm	-42.09 dB	-7.94 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-43.35 dBm	-64.49 dB	-23.35 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40625 MHz	-43.49 dBm	-64.64 dB	-23.49 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.44360 MHz	-19.39 dBm	-40.54 dB	-6.39 dB

Date: 12.NOV.2024 10:23:32

Highest Band Edge / Full RB



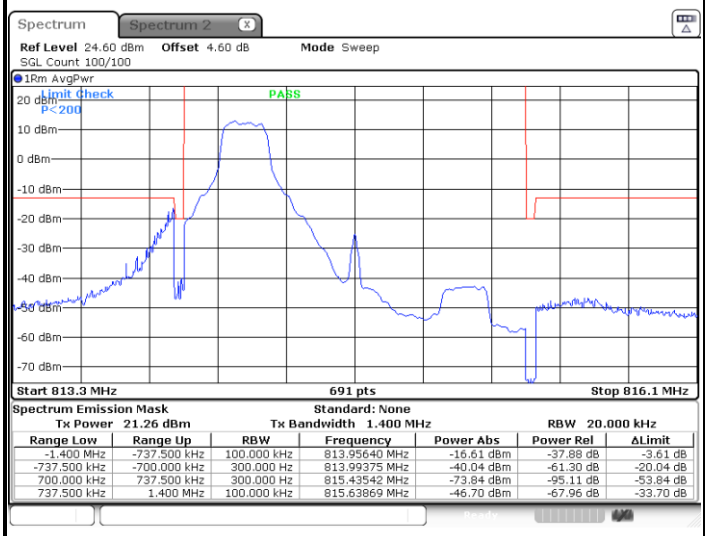
Spectrum Emission Mask Standard: None
Tx Power 21.29 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.54421 MHz	-20.78 dBm	-42.07 dB	-7.78 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59375 MHz	-43.59 dBm	-64.89 dB	-23.59 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-43.79 dBm	-65.09 dB	-23.79 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04766 MHz	-20.21 dBm	-41.50 dB	-7.21 dB

Date: 12.NOV.2024 10:39:05

LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB

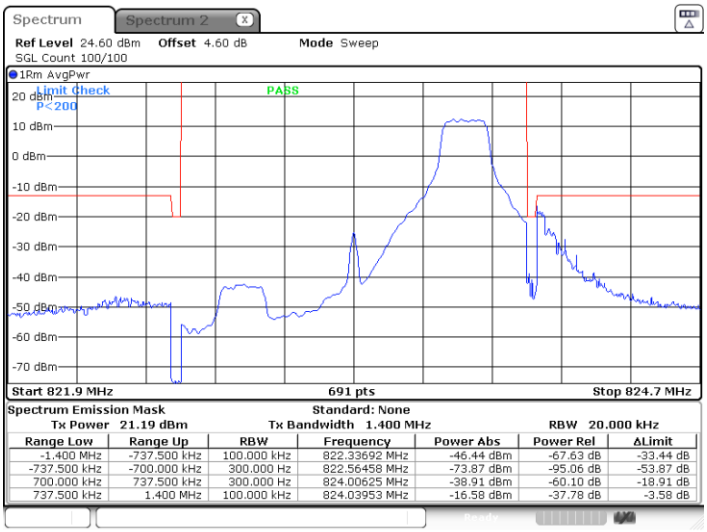


Spectrum Emission Mask Standard: None
Tx Power 21.26 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.95640 MHz	-16.61 dBm	-37.88 dB	-3.61 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-40.04 dBm	-61.30 dB	-20.04 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.43542 MHz	-73.84 dBm	-95.11 dB	-53.84 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.63869 MHz	-46.70 dBm	-67.96 dB	-33.70 dB

Date: 12.NOV.2024 10:17:28

Highest Band Edge / 1 RB

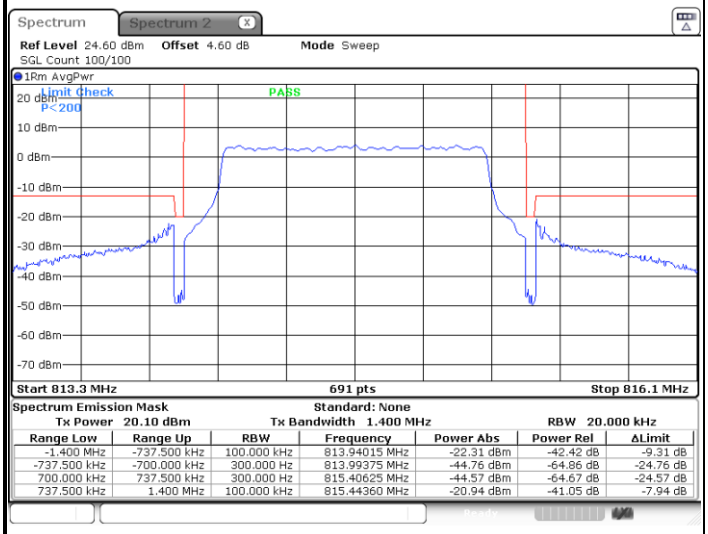


Spectrum Emission Mask Standard: None
Tx Power 21.19 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.33692 MHz	-46.44 dBm	-67.63 dB	-33.44 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.56458 MHz	-73.87 dBm	-95.06 dB	-53.87 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-38.91 dBm	-60.10 dB	-18.91 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-16.58 dBm	-37.78 dB	-3.58 dB

Date: 12.NOV.2024 10:34:19

Lowest Band Edge / Full RB

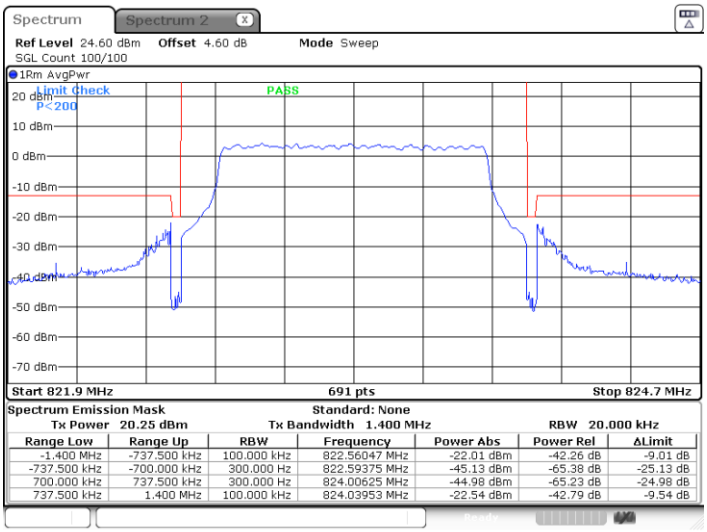


Spectrum Emission Mask Standard: None
Tx Power 20.10 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.94015 MHz	-22.31 dBm	-42.42 dB	-9.31 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-44.76 dBm	-64.86 dB	-24.76 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40625 MHz	-44.57 dBm	-64.67 dB	-24.57 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.44360 MHz	-20.94 dBm	-41.05 dB	-7.94 dB

Date: 12.NOV.2024 10:25:07

Highest Band Edge / Full RB



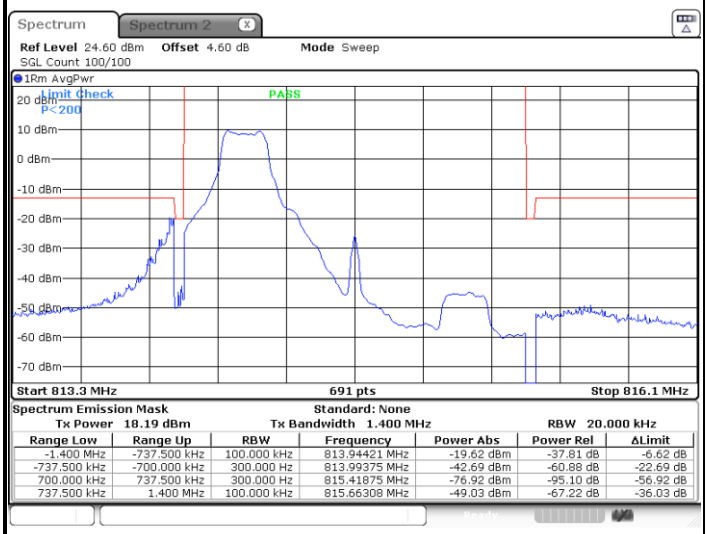
Spectrum Emission Mask Standard: None
Tx Power 20.25 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.56047 MHz	-22.01 dBm	-42.26 dB	-9.01 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59375 MHz	-45.13 dBm	-65.38 dB	-25.13 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-44.98 dBm	-65.23 dB	-24.98 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.03953 MHz	-22.54 dBm	-42.79 dB	-9.54 dB

Date: 12.NOV.2024 10:40:40

LTE Band 26 / 1.4MHz / 256QAM

Lowest Band Edge / 1 RB



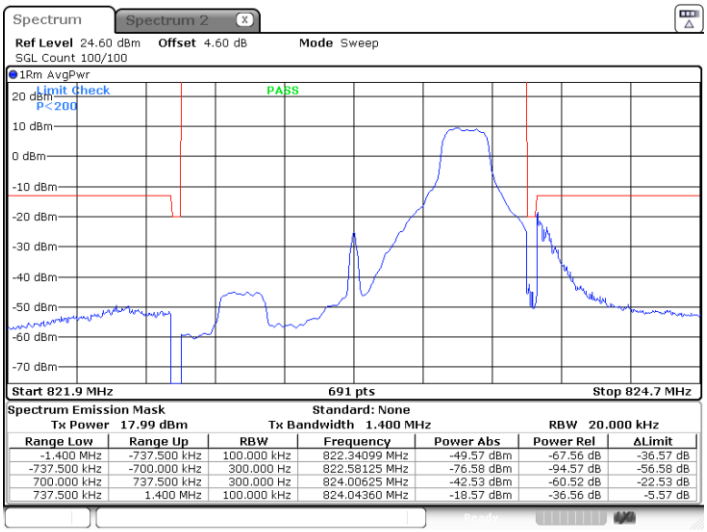
Spectrum Emission Mask Standard: None

Tx Power 18.19 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.94421 MHz	-19.62 dBm	-37.81 dB	-6.62 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-42.69 dBm	-60.88 dB	-22.69 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.41875 MHz	-76.92 dBm	-95.10 dB	-56.92 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.66308 MHz	-49.03 dBm	-67.22 dB	-36.03 dB

Date: 12.NOV.2024 10:20:21

Highest Band Edge / 1 RB



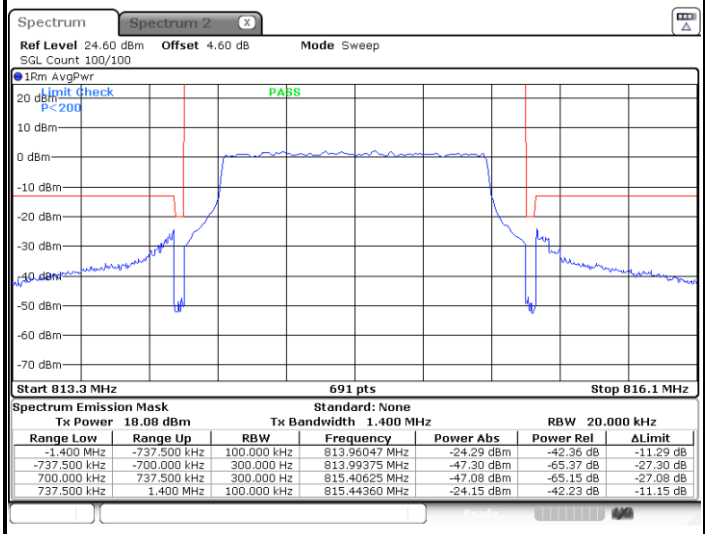
Spectrum Emission Mask Standard: None

Tx Power 17.99 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.34099 MHz	-49.57 dBm	-67.56 dB	-36.57 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.58125 MHz	-76.58 dBm	-94.57 dB	-56.58 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-42.53 dBm	-60.52 dB	-22.53 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04360 MHz	-18.57 dBm	-36.56 dB	-5.57 dB

Date: 12.NOV.2024 10:35:55

Lowest Band Edge / Full RB



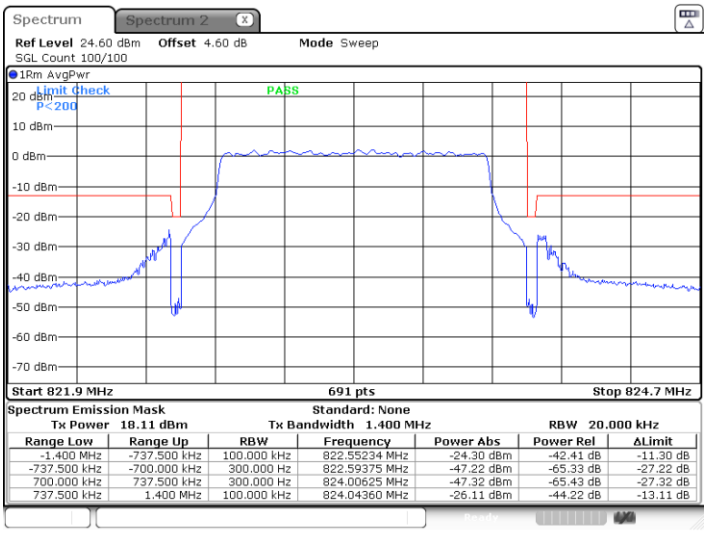
Spectrum Emission Mask Standard: None

Tx Power 18.08 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	813.96047 MHz	-24.29 dBm	-42.36 dB	-11.29 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99375 MHz	-47.30 dBm	-65.37 dB	-27.30 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40625 MHz	-47.08 dBm	-65.15 dB	-27.08 dB
737.500 kHz	1.400 MHz	100.000 kHz	815.44360 MHz	-24.15 dBm	-42.23 dB	-11.15 dB

Date: 12.NOV.2024 10:26:43

Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None

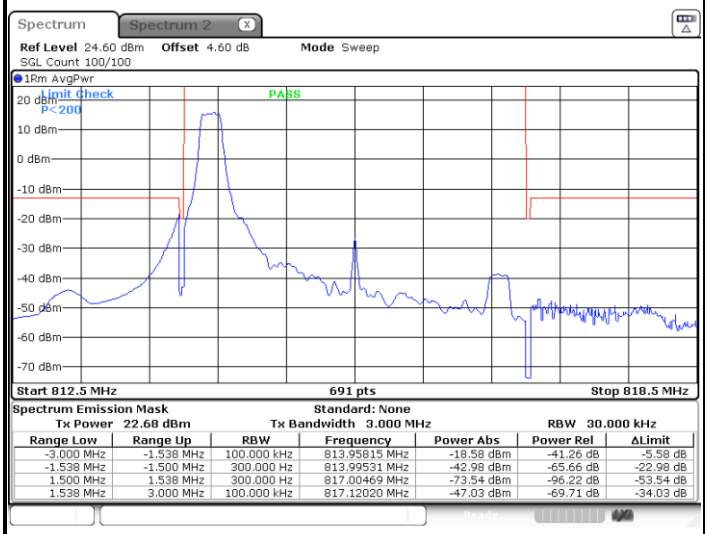
Tx Power 18.11 dBm Tx Bandwidth 1.400 MHz RBW 20.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-1.400 MHz	-737.500 kHz	100.000 kHz	822.55234 MHz	-24.30 dBm	-42.41 dB	-11.30 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59375 MHz	-47.22 dBm	-65.33 dB	-27.22 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00625 MHz	-47.32 dBm	-65.43 dB	-27.32 dB
737.500 kHz	1.400 MHz	100.000 kHz	824.04360 MHz	-26.11 dBm	-44.22 dB	-13.11 dB

Date: 12.NOV.2024 10:42:16

LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB

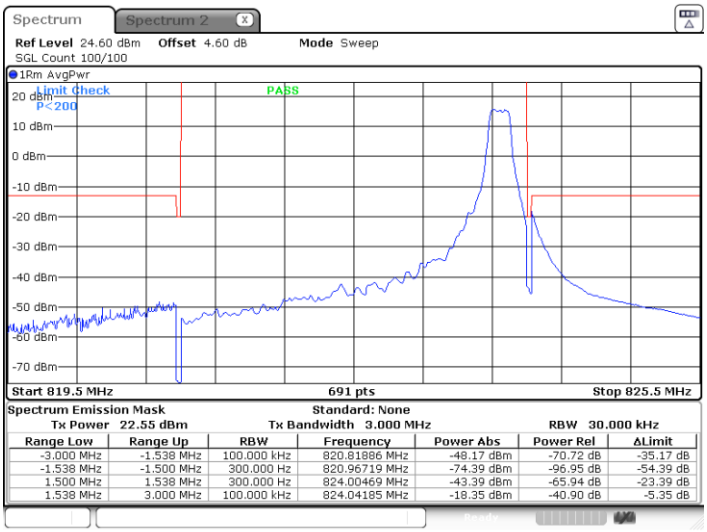


Spectrum Emission Mask Standard: None
Tx Power 22.68 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-18.58 dBm	-41.26 dB	-5.58 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99531 MHz	-42.98 dBm	-65.66 dB	-22.98 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00469 MHz	-73.54 dBm	-96.22 dB	-53.54 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.12020 MHz	-47.03 dBm	-69.71 dB	-34.03 dB

Date: 12.NOV.2024 10:45:55

Highest Band Edge / 1 RB

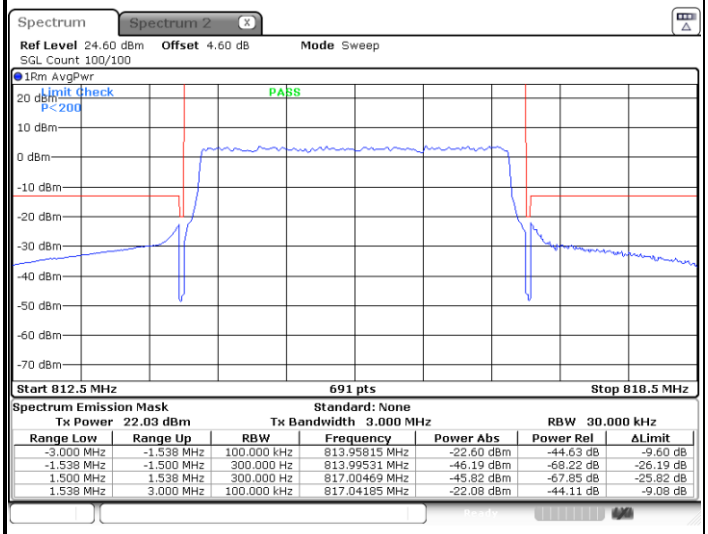


Spectrum Emission Mask Standard: None
Tx Power 22.55 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.81886 MHz	-48.17 dBm	-70.72 dB	-35.17 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.96719 MHz	-74.39 dBm	-96.95 dB	-54.39 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00469 MHz	-43.39 dBm	-65.94 dB	-23.39 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-18.35 dBm	-40.90 dB	-5.35 dB

Date: 12.NOV.2024 11:00:26

Lowest Band Edge / Full RB

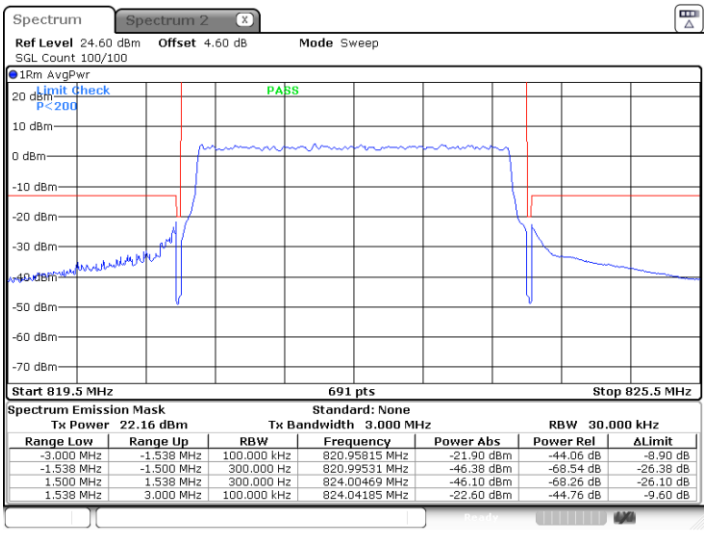


Spectrum Emission Mask Standard: None
Tx Power 22.03 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-22.60 dBm	-44.63 dB	-9.60 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99531 MHz	-46.19 dBm	-68.22 dB	-26.19 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00469 MHz	-45.82 dBm	-67.85 dB	-25.82 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.04185 MHz	-22.08 dBm	-44.11 dB	-9.08 dB

Date: 12.NOV.2024 10:51:35

Highest Band Edge / Full RB



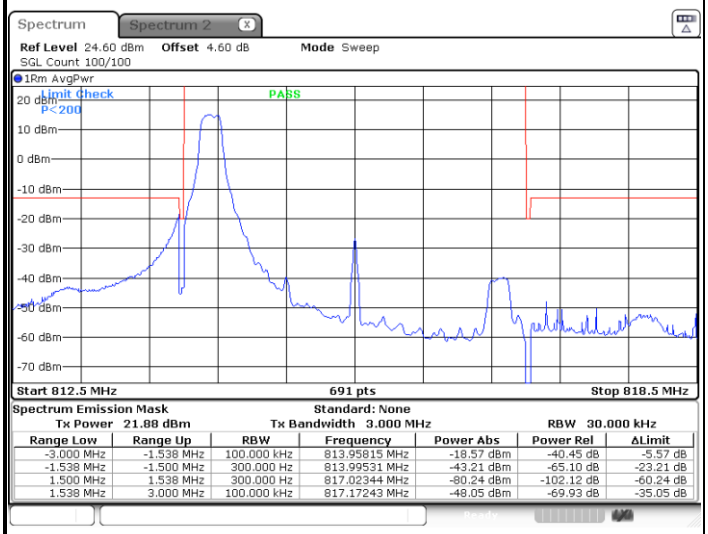
Spectrum Emission Mask Standard: None
Tx Power 22.16 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.95815 MHz	-21.90 dBm	-44.06 dB	-8.90 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99531 MHz	-46.38 dBm	-68.54 dB	-26.38 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00469 MHz	-46.10 dBm	-68.26 dB	-26.10 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-22.60 dBm	-44.76 dB	-9.60 dB

Date: 12.NOV.2024 11:05:52

LTE Band 26 / 3MHz / 16QAM

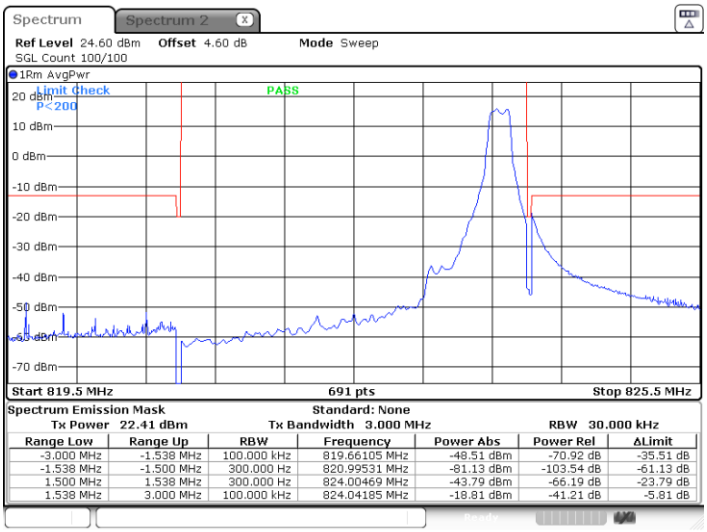
Lowest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-18.57 dBm	-40.45 dB	-5.57 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99531 MHz	-43.21 dBm	-65.10 dB	-23.21 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.02344 MHz	-80.24 dBm	-102.12 dB	-60.24 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.17243 MHz	-48.05 dBm	-69.93 dB	-35.05 dB

Date: 12.NOV.2024 10:47:30

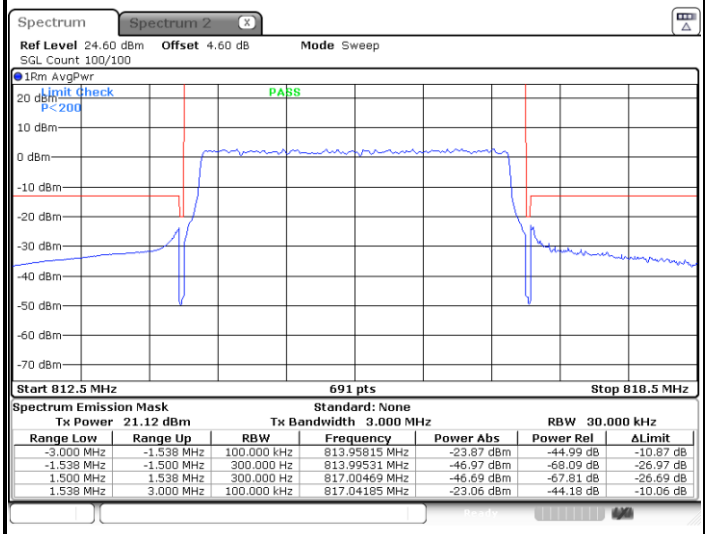
Highest Band Edge /1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	819.66105 MHz	-48.51 dBm	-70.92 dB	-35.51 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99531 MHz	-81.13 dBm	-103.54 dB	-61.13 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00469 MHz	-43.79 dBm	-66.19 dB	-23.79 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-18.81 dBm	-41.21 dB	-5.81 dB

Date: 12.NOV.2024 11:01:47

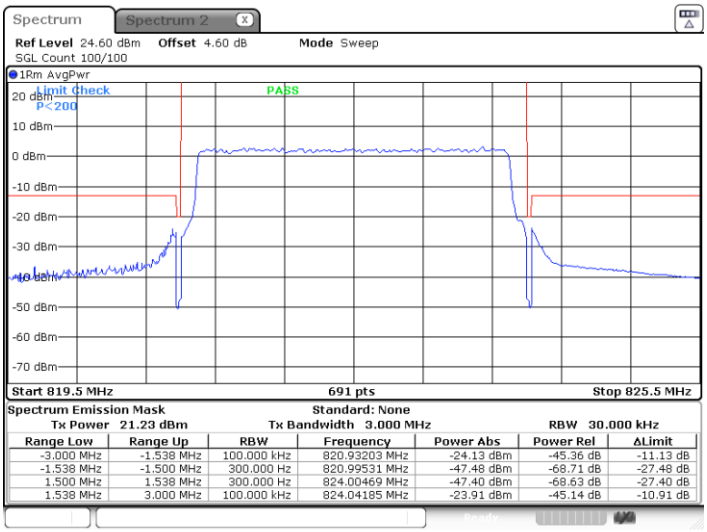
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	813.95815 MHz	-23.87 dBm	-44.99 dB	-10.87 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99531 MHz	-46.97 dBm	-68.09 dB	-26.97 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00469 MHz	-46.69 dBm	-67.81 dB	-26.69 dB
1.538 MHz	3.000 MHz	100.000 kHz	817.04185 MHz	-23.06 dBm	-44.18 dB	-10.06 dB

Date: 12.NOV.2024 10:52:56

Highest Band Edge / Full RB

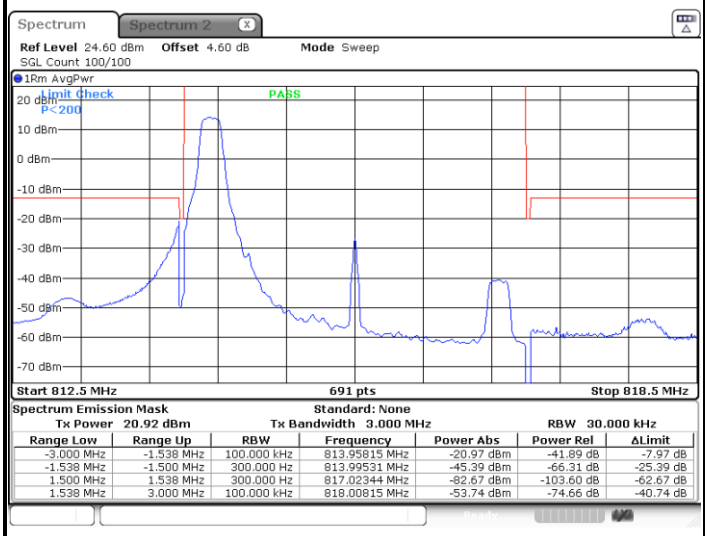


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-1.538 MHz	100.000 kHz	820.93203 MHz	-24.13 dBm	-45.36 dB	-11.13 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99531 MHz	-47.48 dBm	-68.71 dB	-27.48 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00469 MHz	-47.40 dBm	-68.63 dB	-27.40 dB
1.538 MHz	3.000 MHz	100.000 kHz	824.04185 MHz	-23.91 dBm	-45.14 dB	-10.91 dB

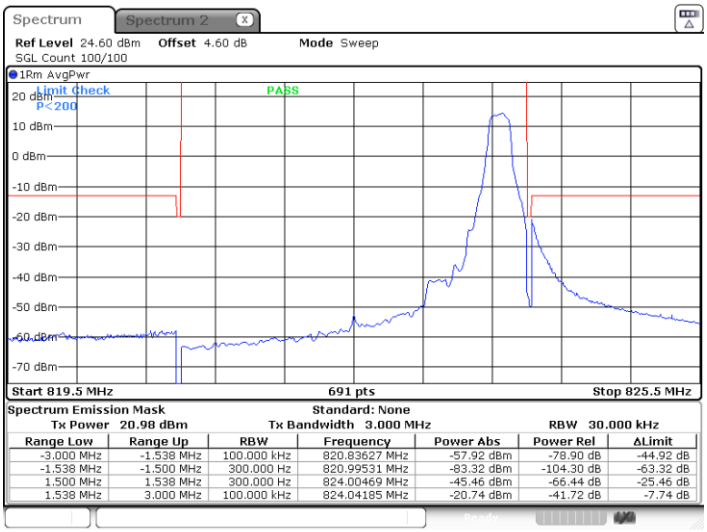
Date: 12.NOV.2024 11:07:13

LTE Band 26 / 3MHz / 64QAM

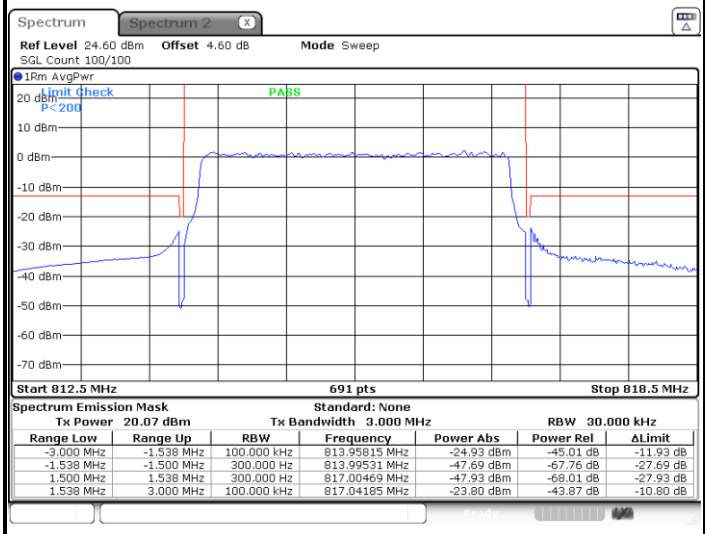
Lowest Band Edge / 1 RB



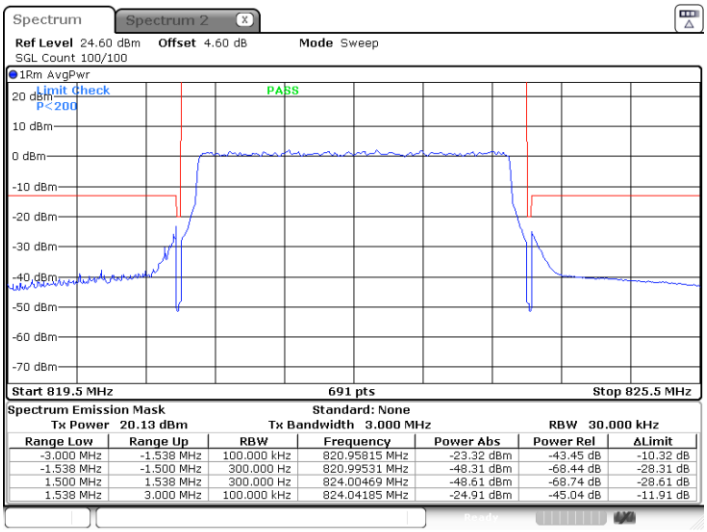
Highest Band Edge /1 RB



Lowest Band Edge / Full RB

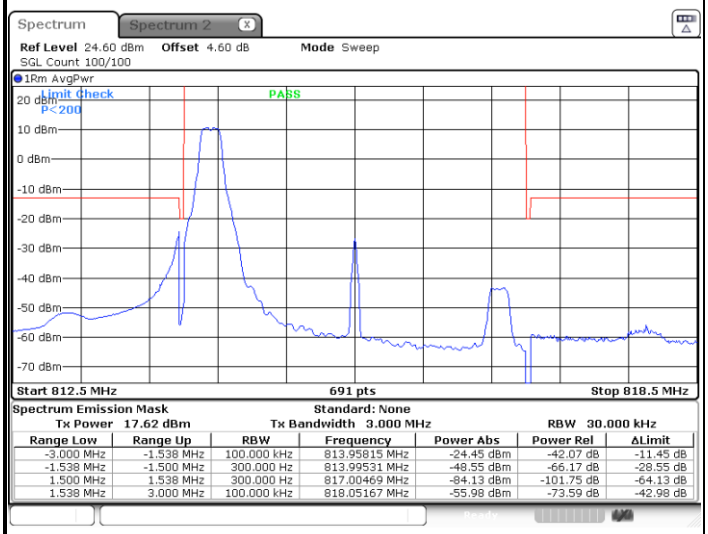


Highest Band Edge / Full RB

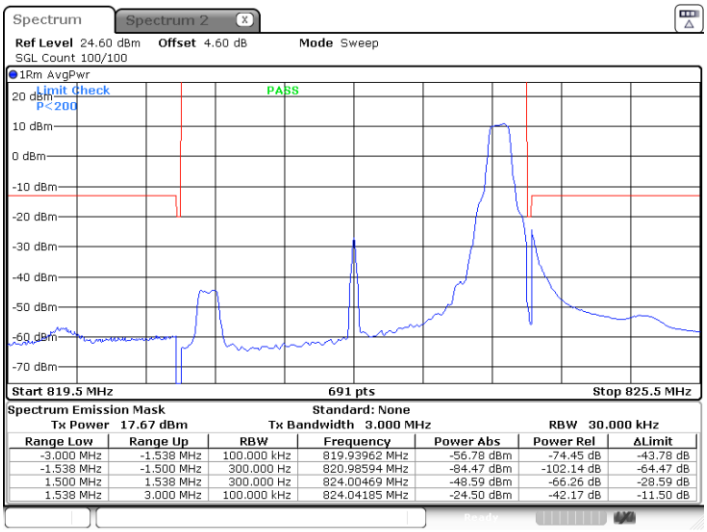


LTE Band 26 / 3MHz / 256QAM

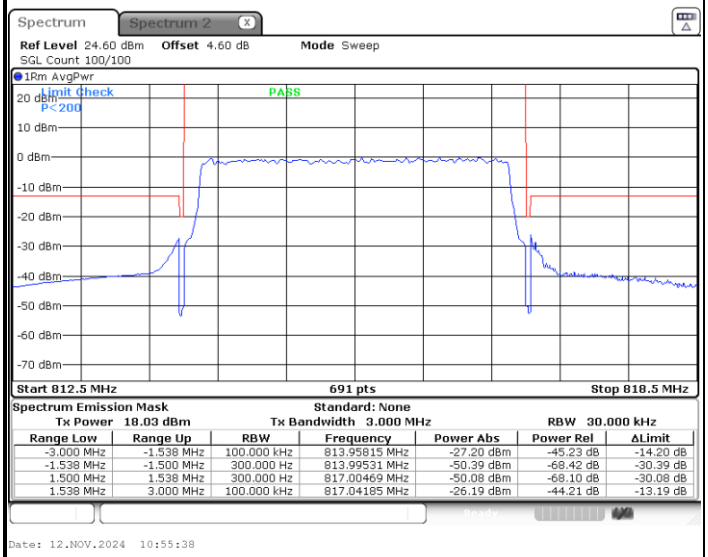
Lowest Band Edge / 1 RB



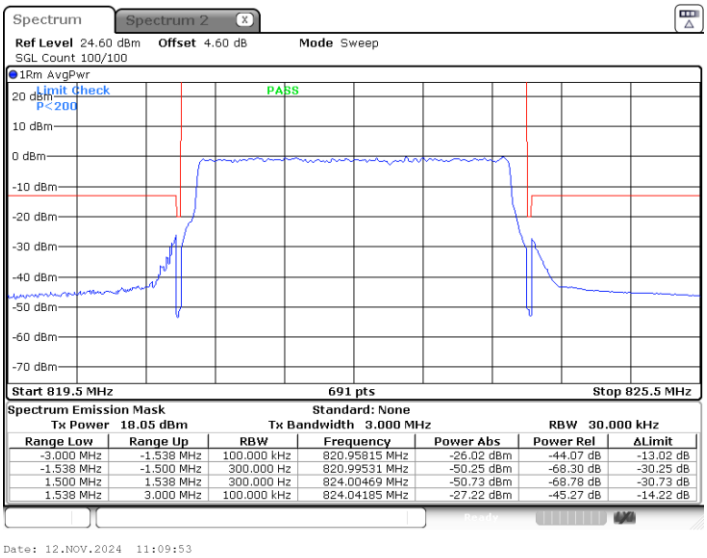
Highest Band Edge /1 RB



Lowest Band Edge / Full RB

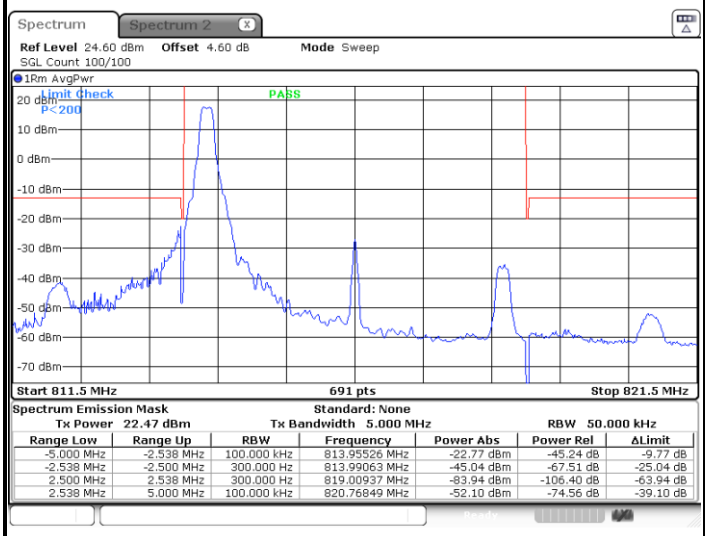


Highest Band Edge / Full RB



LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1 RB

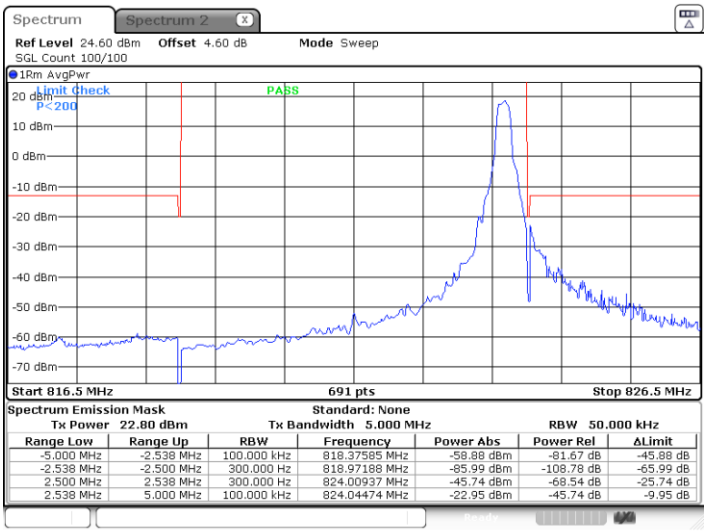


Spectrum Emission Mask Standard: None
Tx Power 22.47 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.95526 MHz	-22.77 dBm	-45.24 dB	-9.77 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-45.04 dBm	-67.51 dB	-25.04 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-83.94 dBm	-106.40 dB	-63.94 dB
2.538 MHz	5.000 MHz	100.000 kHz	820.76849 MHz	-52.10 dBm	-74.56 dB	-39.10 dB

Date: 12.NOV.2024 11:14:10

Highest Band Edge / 1 RB

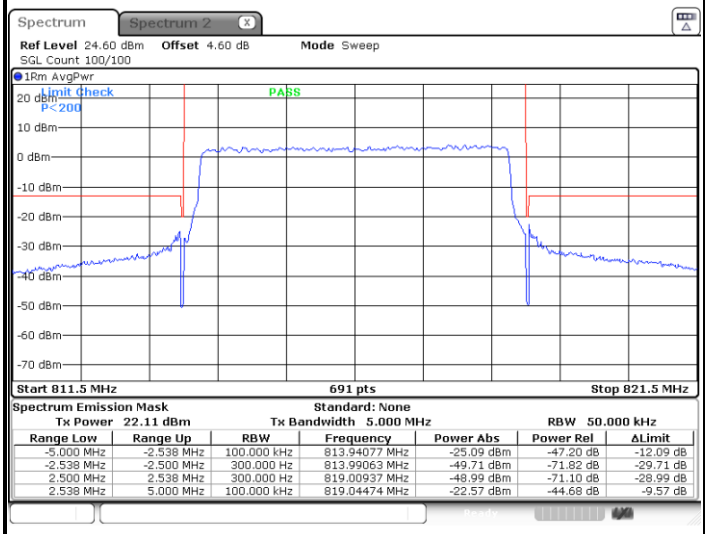


Spectrum Emission Mask Standard: None
Tx Power 22.80 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.37585 MHz	-58.88 dBm	-81.67 dB	-45.88 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.97188 MHz	-85.99 dBm	-108.78 dB	-65.99 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-45.74 dBm	-68.54 dB	-25.74 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.04474 MHz	-22.95 dBm	-45.74 dB	-9.95 dB

Date: 12.NOV.2024 11:27:21

Lowest Band Edge / Full RB

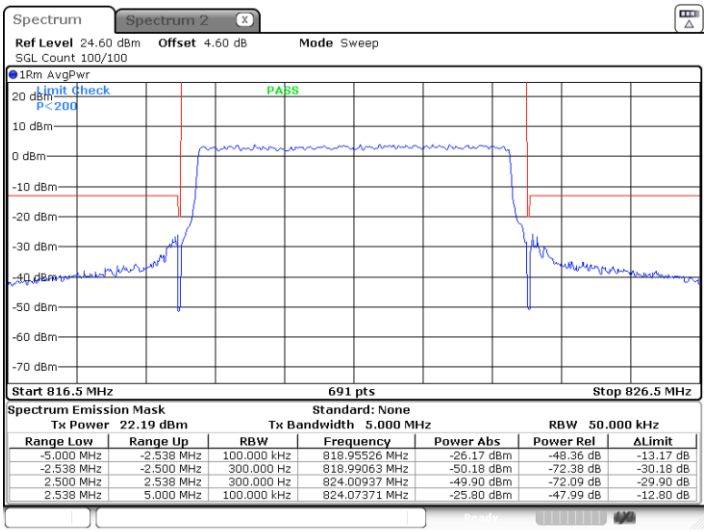


Spectrum Emission Mask Standard: None
Tx Power 22.11 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.94077 MHz	-25.09 dBm	-47.20 dB	-12.09 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-49.71 dBm	-71.82 dB	-29.71 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-48.99 dBm	-71.10 dB	-28.99 dB
2.538 MHz	5.000 MHz	100.000 kHz	819.04474 MHz	-22.57 dBm	-44.68 dB	-9.57 dB

Date: 12.NOV.2024 11:19:11

Highest Band Edge / Full RB



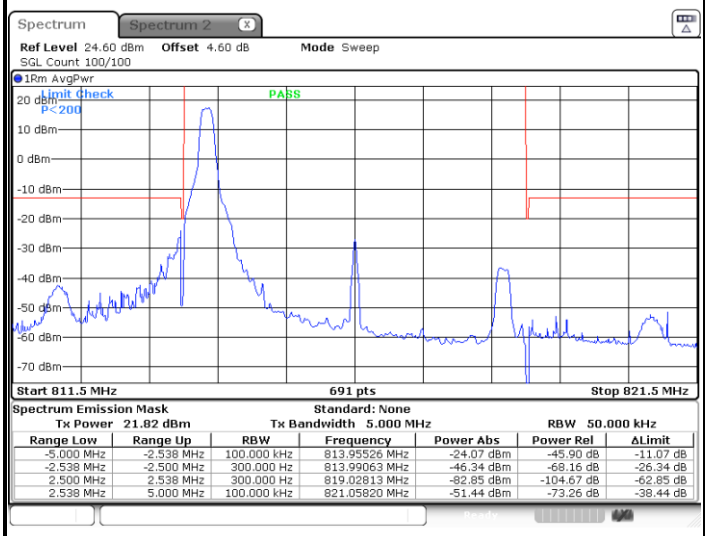
Spectrum Emission Mask Standard: None
Tx Power 22.19 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.95526 MHz	-26.17 dBm	-48.36 dB	-13.17 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-50.18 dBm	-72.38 dB	-30.18 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-49.90 dBm	-72.09 dB	-29.90 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.07371 MHz	-25.80 dBm	-47.99 dB	-12.80 dB

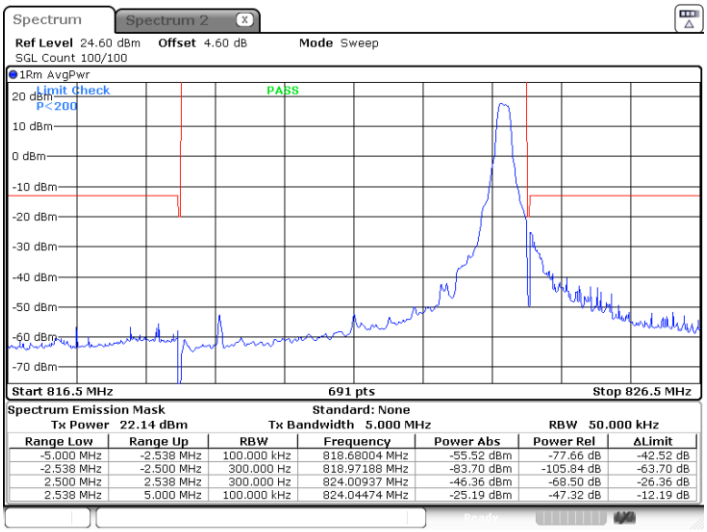
Date: 12.NOV.2024 11:32:03

LTE Band 26 / 5MHz / 16QAM

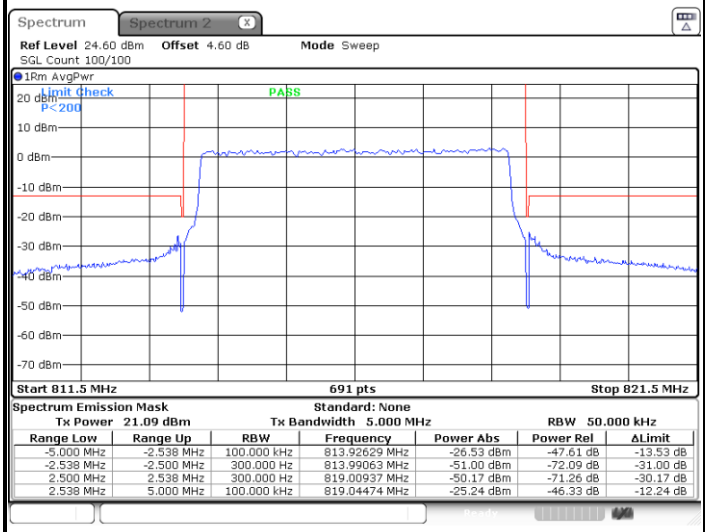
Lowest Band Edge / 1RB



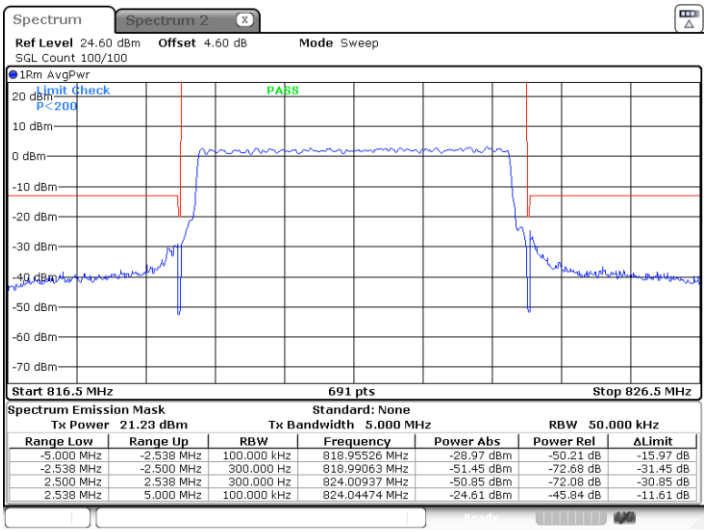
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

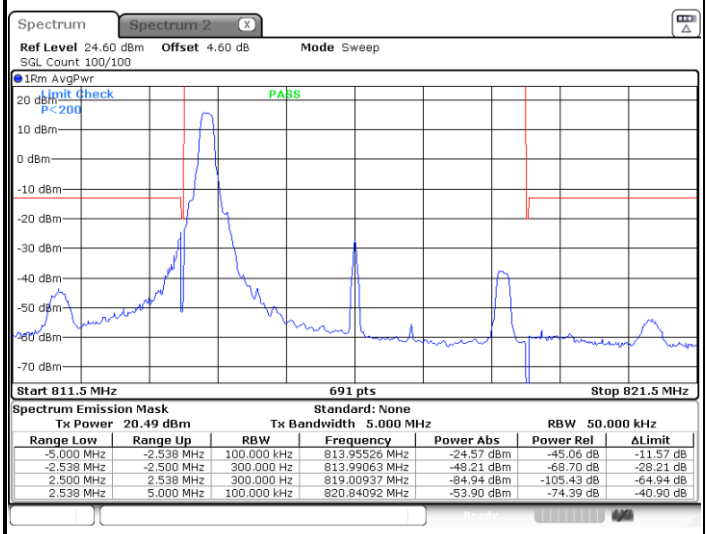


Highest Band Edge / Full RB



LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1RB

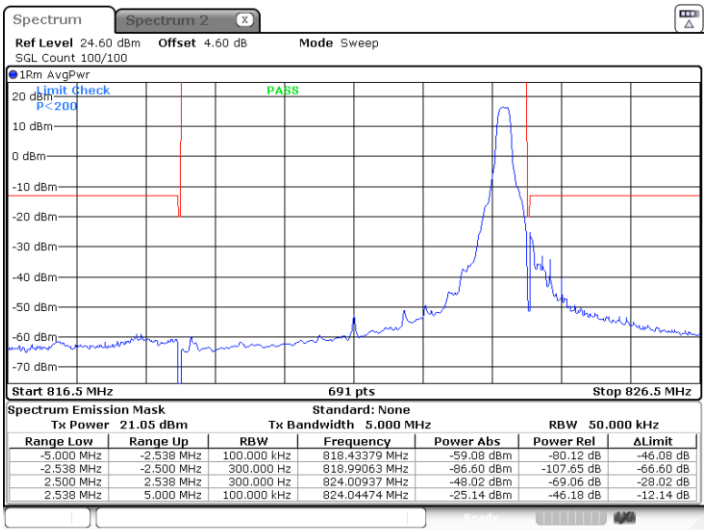


Spectrum Emission Mask Standard: None
Tx Power 20.49 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.95526 MHz	-24.57 dBm	-45.06 dB	-11.57 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-48.21 dBm	-68.70 dB	-28.21 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-84.94 dBm	-105.43 dB	-64.94 dB
2.538 MHz	5.000 MHz	100.000 kHz	820.84092 MHz	-53.90 dBm	-74.39 dB	-40.90 dB

Date: 12.NOV.2024 11:16:50

Highest Band Edge / 1 RB

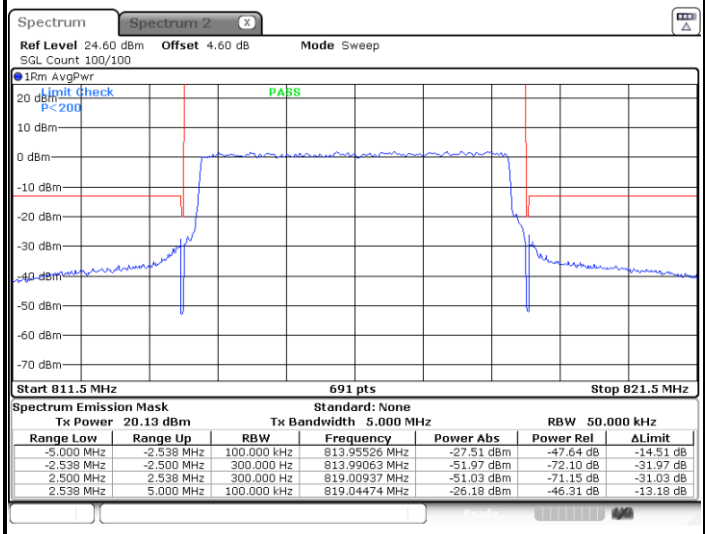


Spectrum Emission Mask Standard: None
Tx Power 21.05 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.43379 MHz	-59.08 dBm	-80.12 dB	-46.08 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-86.60 dBm	-107.65 dB	-66.60 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-48.02 dBm	-69.06 dB	-28.02 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.04474 MHz	-25.14 dBm	-46.18 dB	-12.14 dB

Date: 12.NOV.2024 11:29:42

Lowest Band Edge / Full RB

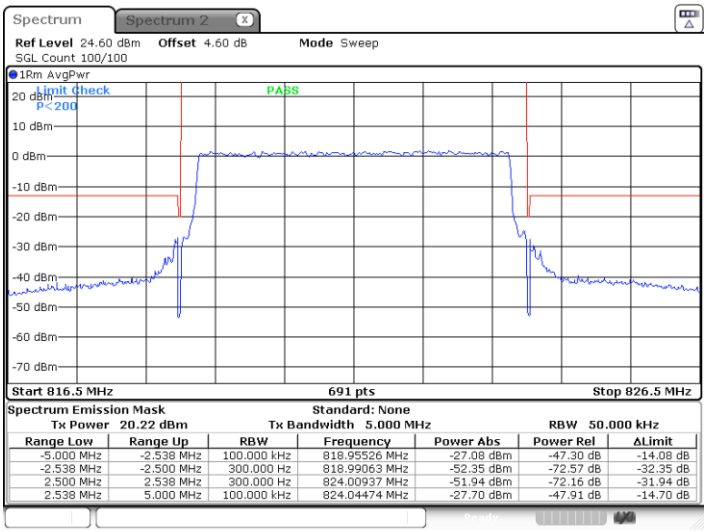


Spectrum Emission Mask Standard: None
Tx Power 20.13 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.95526 MHz	-27.51 dBm	-47.64 dB	-14.51 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-51.97 dBm	-72.10 dB	-31.97 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-51.03 dBm	-71.15 dB	-31.03 dB
2.538 MHz	5.000 MHz	100.000 kHz	819.04474 MHz	-26.18 dBm	-46.31 dB	-13.18 dB

Date: 12.NOV.2024 11:21:32

Highest Band Edge / Full RB



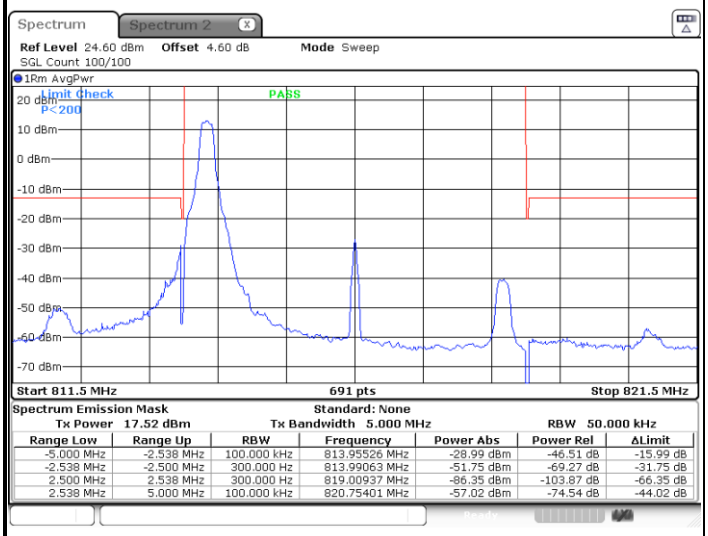
Spectrum Emission Mask Standard: None
Tx Power 20.22 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.95526 MHz	-27.08 dBm	-47.30 dB	-14.08 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-52.35 dBm	-72.57 dB	-32.35 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-51.94 dBm	-72.16 dB	-31.94 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.04474 MHz	-27.70 dBm	-47.91 dB	-14.70 dB

Date: 12.NOV.2024 11:34:23

LTE Band 26 / 5MHz / 256QAM

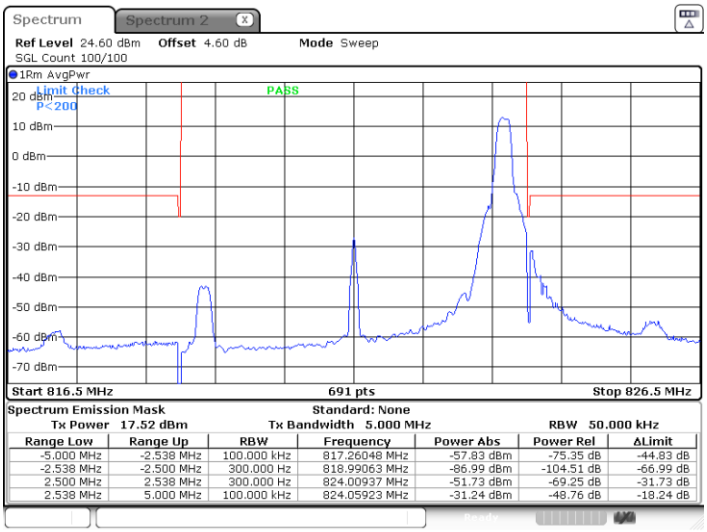
Lowest Band Edge / 1RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.95526 MHz	-28.99 dBm	-46.51 dB	-15.99 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-51.75 dBm	-69.27 dB	-31.75 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-86.35 dBm	-103.87 dB	-66.35 dB
2.538 MHz	5.000 MHz	100.000 kHz	820.75401 MHz	-57.02 dBm	-74.54 dB	-44.02 dB

Date: 12.NOV.2024 11:18:00

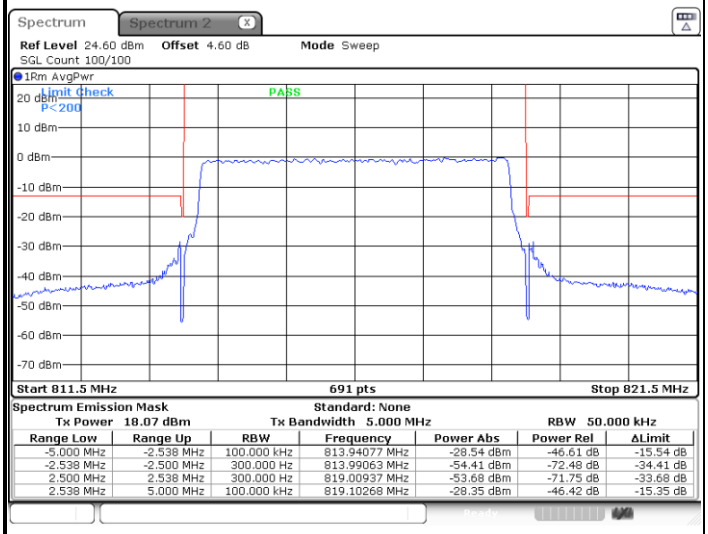
Highest Band Edge / 1 RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	817.26048 MHz	-57.83 dBm	-75.35 dB	-44.83 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-86.99 dBm	-104.51 dB	-66.99 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-51.73 dBm	-69.25 dB	-31.73 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.05923 MHz	-31.24 dBm	-48.76 dB	-18.24 dB

Date: 12.NOV.2024 11:30:53

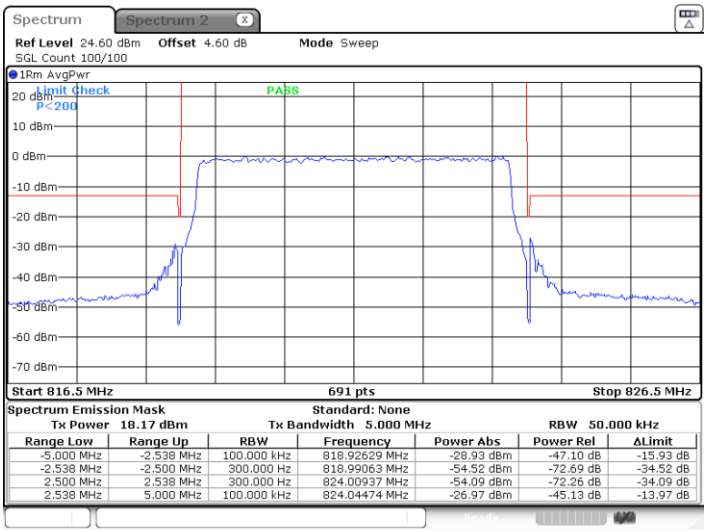
Lowest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	813.94077 MHz	-28.54 dBm	-46.61 dB	-15.54 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-54.41 dBm	-72.48 dB	-34.41 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-53.68 dBm	-71.75 dB	-33.68 dB
2.538 MHz	5.000 MHz	100.000 kHz	819.10268 MHz	-28.35 dBm	-46.42 dB	-15.35 dB

Date: 12.NOV.2024 11:22:43

Highest Band Edge / Full RB

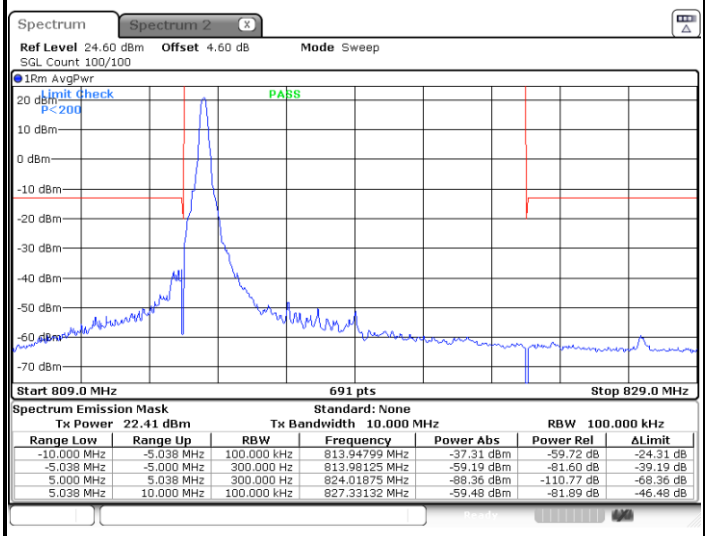


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-2.538 MHz	100.000 kHz	818.92629 MHz	-28.93 dBm	-47.10 dB	-15.93 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-54.52 dBm	-72.69 dB	-34.52 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-54.09 dBm	-72.26 dB	-34.09 dB
2.538 MHz	5.000 MHz	100.000 kHz	824.04474 MHz	-26.97 dBm	-45.13 dB	-13.97 dB

Date: 12.NOV.2024 11:35:34

LTE Band 26 / 10MHz / QPSK

Middle Band Edge / 1 RB

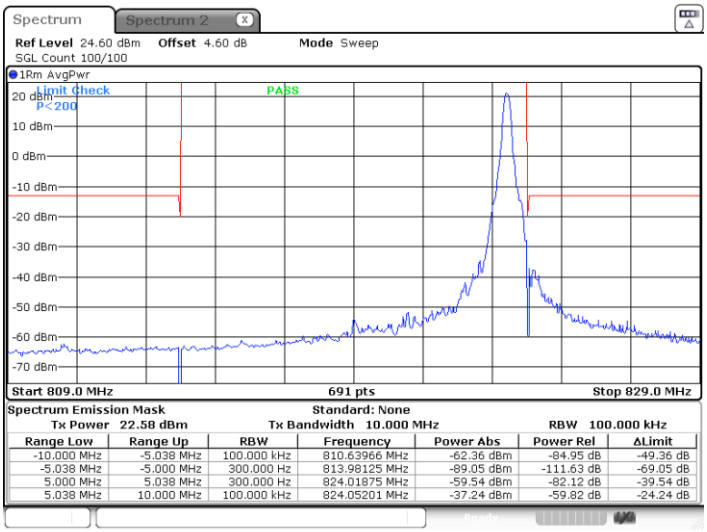


Spectrum Emission Mask Standard: None
Tx Power 22.41 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-37.31 dBm	-59.72 dB	-24.31 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-59.19 dBm	-81.60 dB	-39.19 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-88.36 dBm	-110.77 dB	-68.36 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.33132 MHz	-59.48 dBm	-81.89 dB	-46.48 dB

Date: 12.NOV.2024 12:27:31

Middle Band Edge / 1 RB max

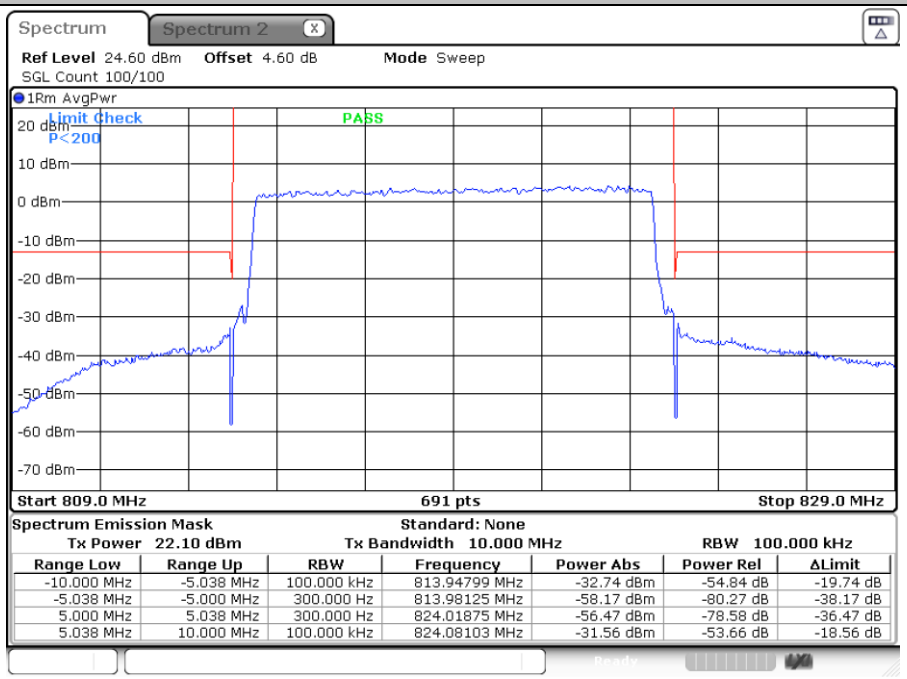


Spectrum Emission Mask Standard: None
Tx Power 22.58 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	810.63966 MHz	-62.36 dBm	-84.95 dB	-49.36 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-89.05 dBm	-111.63 dB	-69.05 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-59.54 dBm	-82.12 dB	-39.54 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.05201 MHz	-37.24 dBm	-59.82 dB	-24.24 dB

Date: 12.NOV.2024 12:36:57

Band Edge / Full RB



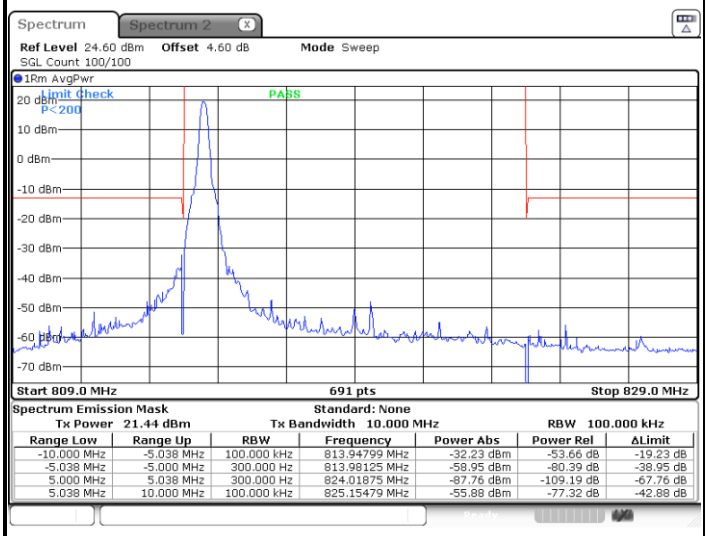
Spectrum Emission Mask Standard: None
Tx Power 22.10 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-32.74 dBm	-54.84 dB	-19.74 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-58.17 dBm	-80.27 dB	-38.17 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-56.47 dBm	-78.58 dB	-36.47 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.08103 MHz	-31.56 dBm	-53.66 dB	-18.56 dB

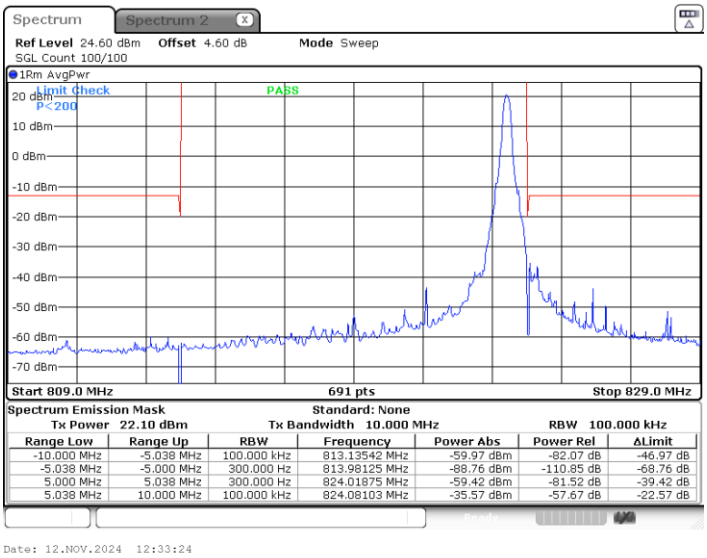
Date: 12.NOV.2024 12:32:14

LTE Band 26 / 10MHz / 16QAM

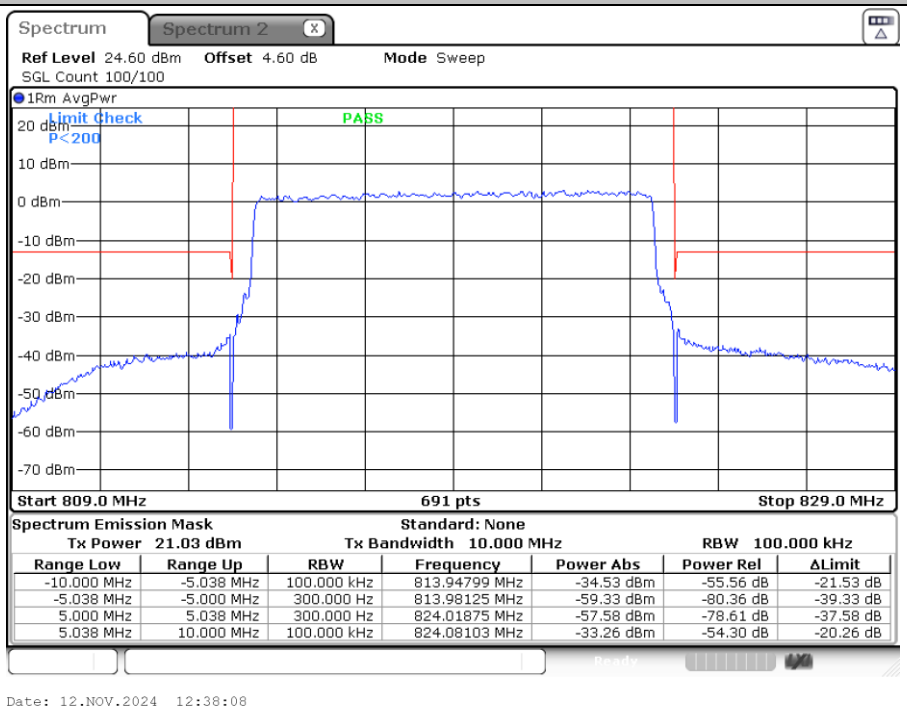
Middle Band Edge / 1 RB



Middle Band Edge / 1 RB max

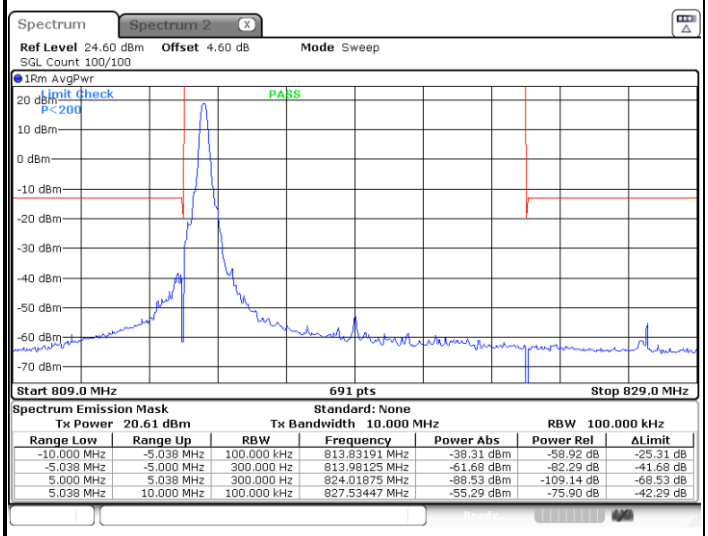


Band Edge / Full RB



LTE Band 26 / 10MHz / 64QAM

Middle Band Edge / 1 RB

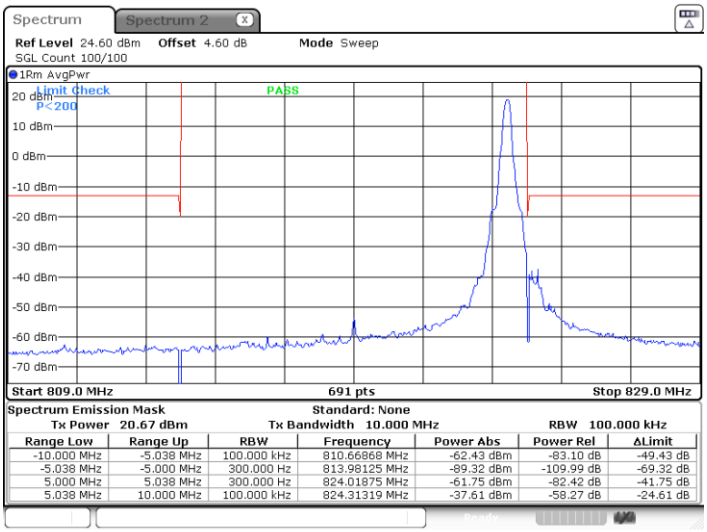


Spectrum Emission Mask Standard: None
Tx Power 20.61 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.83191 MHz	-38.31 dBm	-58.92 dB	-25.31 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-61.68 dBm	-82.29 dB	-41.68 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-88.53 dBm	-109.14 dB	-68.53 dB
5.038 MHz	10.000 MHz	100.000 kHz	827.53447 MHz	-55.29 dBm	-75.90 dB	-42.29 dB

Date: 12.NOV.2024 12:29:52

Middle Band Edge / 1 RB max

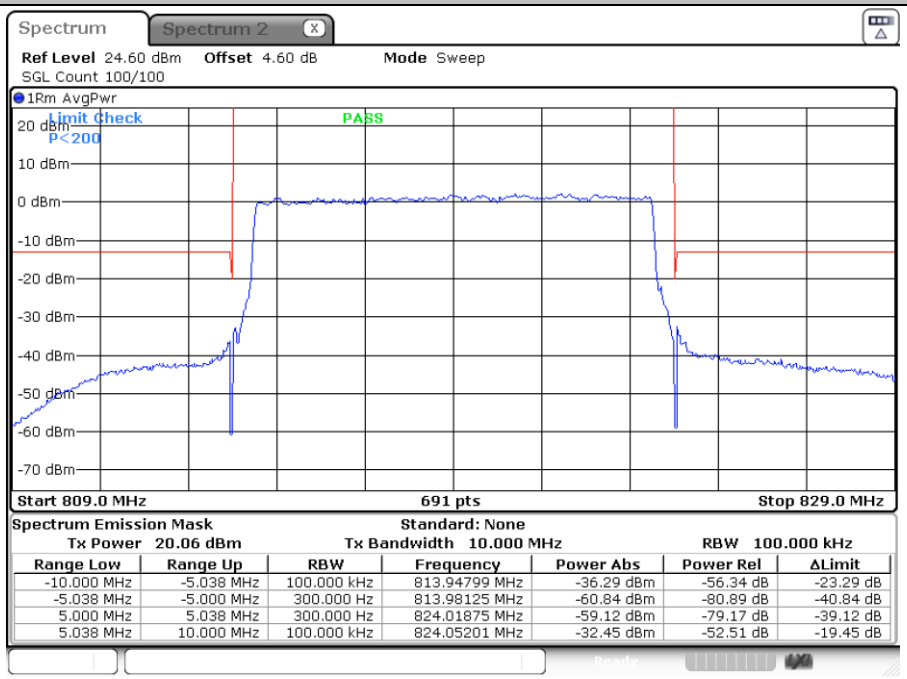


Spectrum Emission Mask Standard: None
Tx Power 20.67 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	810.66868 MHz	-62.43 dBm	-83.10 dB	-49.43 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-89.32 dBm	-109.99 dB	-69.32 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-61.75 dBm	-82.42 dB	-41.75 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.31319 MHz	-37.61 dBm	-58.27 dB	-24.61 dB

Date: 12.NOV.2024 12:34:35

Band Edge / Full RB



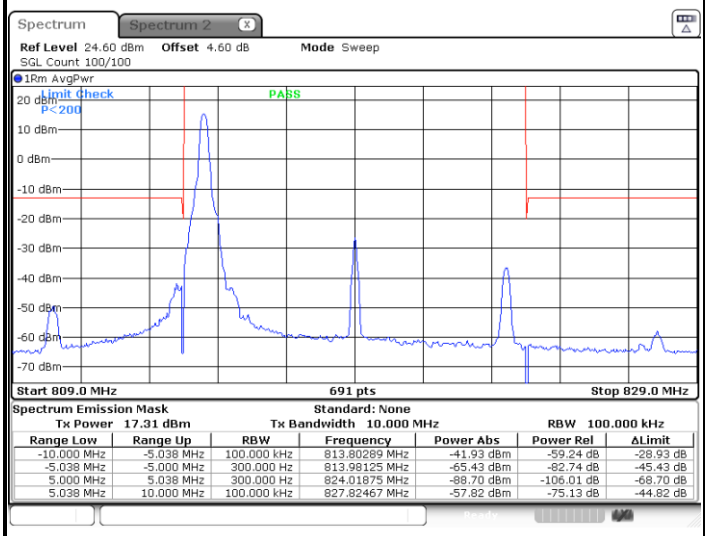
Spectrum Emission Mask Standard: None
Tx Power 20.06 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.94799 MHz	-36.29 dBm	-56.34 dB	-23.29 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98125 MHz	-60.84 dBm	-80.89 dB	-40.84 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.01875 MHz	-59.12 dBm	-79.17 dB	-39.12 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.05201 MHz	-32.45 dBm	-52.51 dB	-19.45 dB

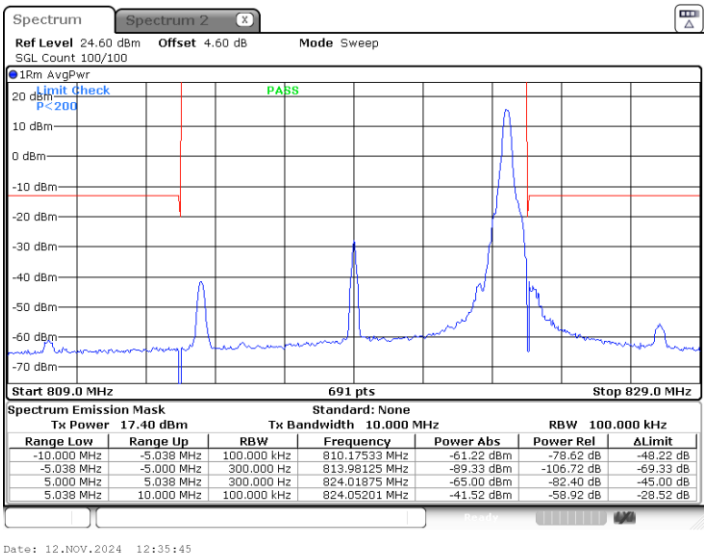
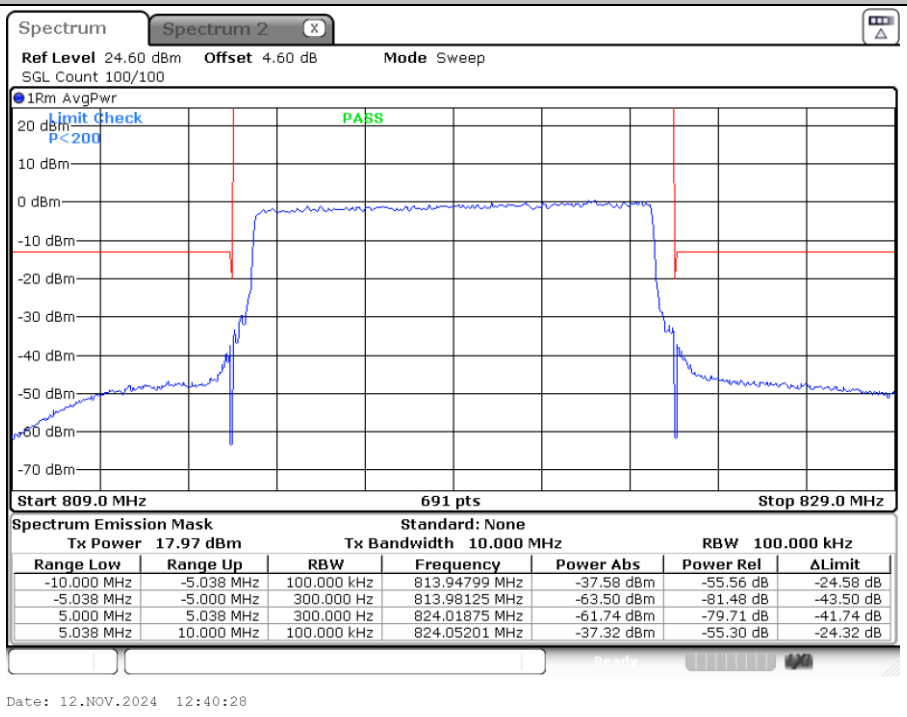
Date: 12.NOV.2024 12:39:18

LTE Band 26 / 10MHz / 256QAM

Middle Band Edge / 1 RB



Middle Band Edge / 1 RB max



Band Edge / Full RB