FCC RF Test Report

APPLICANT	:	MeiG Smart Technology Co., Ltd
EQUIPMENT	:	Smart Module
BRAND NAME	:	MEIGLink
MODEL NAME	:	SLM927
FCC ID	:	2APJ4-SLM927
STANDARD	:	47 CFR Part 2, 90(R)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	Oct. 07, 2023 ~ Oct. 09, 2023

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

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

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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
FG372809D	Rev. 01	Initial issue of report	Nov. 15, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.2	§2.1046	Conducted Output Power	—	Reporting only	-
	§90.542 (a)(7)	Effective Radiated Power	ERP < 3Watt	PASS	-
3.3	-	Peak-to-Average Ratio	—	Reporting only	-
3.4	§2.1049	Occupied Bandwidth	—	Reporting only	-
3.5	§2.1053 §90.543 (e)(2)(3)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.6	§2.1051 §90.210(n)	Emission Mask	Mask B	PASS	-
3.7	§2.1053 §90.543 (e)(3)	Conducted Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	-
3.8	§2.1055 §90.539 (e)	Frequency Stability Temperature & Voltage	< ±1.25 ppm	PASS	-
4.4	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 10.57 dB at 1576.00 MHz

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

MeiG Smart Technology Co., Ltd
2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen City.

1.2 Manufacturer

MeiG Smart Technology Co., Ltd
2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen City.

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Smart Module
Brand Name	MEIGLink
Model Name	SLM927
FCC ID	2APJ4-SLM927
Tx Frequency	LTE Band 14: 788 MHz ~ 798 MHz
Rx Frequency	LTE Band 14: 758 MHz ~ 768 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	23.66 dBm
Antenna Gain	3.58 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 860662058041654 Radiation: 860662058041670
HW Version	V1.00
SW Version	T02
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Maximum Conducted Power, and Emission Designator

LTE Band 14		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)
5	**790.5~795.5**	0.2208	4M48G7D	0.2000	4M49W7D
10	**793**	0.2323	9M05G7D	0.2014	8M99W7D

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

1.5 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.**
	03CH04-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	TH01-KS	SPORTON	FCC LTE_Ver2.0 Auto_china_210503	2.0
2.	03CH04-KS	AUDIX	E3	210616

1.7 Applied Standards

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

- 47 CFR Part 2, Part 90(R)
- ANSI C63.26
- KDB 971168 D01 Power Meas License Digital Systems v03r01
- KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

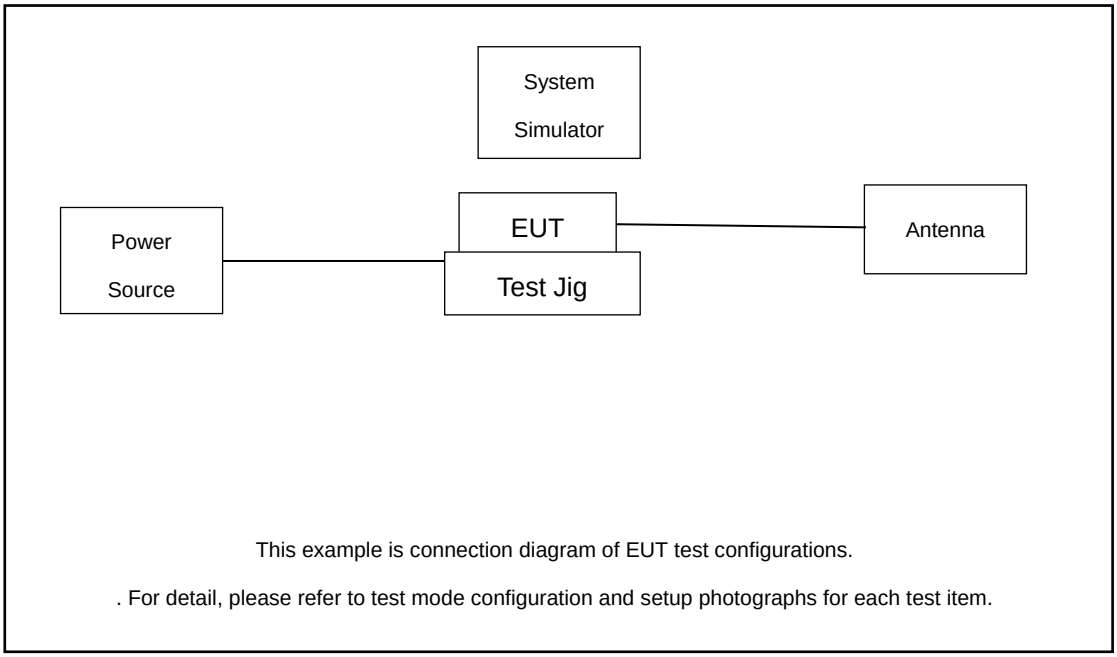
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	14	-	-	V	-	-	-	V	V			V			V	V	V
	14	-	-		V	-	-	V	V	V	V	V		V		V	
Peak-to-Average Ratio	14	-	-		V	-	-	V	V	V	V			V		V	
26dB and 99% Bandwidth	14	-	-	V		-	-	V	V					V		V	
	14	-	-		V	-	-	V	V					V		V	
Conducted Band Edge	14	-	-	V		-	-	V	V	V	V	V		V	V		V
	14	-	-		V	-	-	V	V	V	V	V		V		V	
Emission Mask	14	-	-	V		-	-	V	V	V	V	V		V	V	V	V
	14	-	-		V	-	-	V	V	V	V	V		V		V	
Conducted Spurious Emission	14	-	-	V		-	-	V				V			V	V	V
	14	-	-		V	-	-	V				V				V	
Frequency Stability	14	-	-		V	-	-	V						V		V	
E.R.P	14	-	-	V	-	-	-	V	V			V			V	V	V
	14	-	-		V	-	-	V	V	V	V	V		V		V	
Radiated Spurious Emission	14	-	-	V	V	-	-	V				V				V	
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Test Jig	N/A	N/A	N/A	N/A	N/A
4.	Antenna	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 4.80 dB

Example :

Offset(dB) = RF cable loss(dB)

= 4.80 (dB)

2.5 Frequency List of Low/Middle/High Channels

LTE Band 14 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

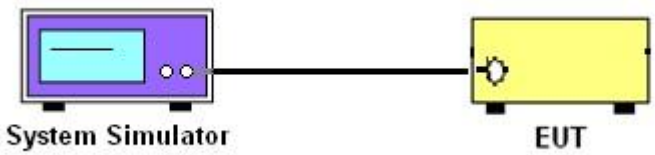
3 Conducted Test Items

3.1 Measuring Instruments

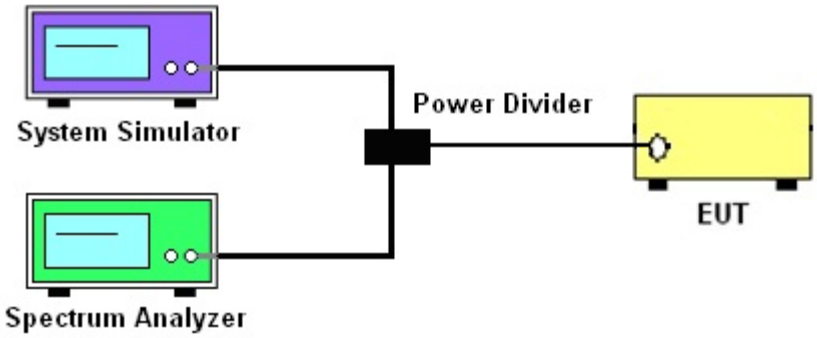
See list of measuring instruments of this test report.

3.1.1 Test Setup

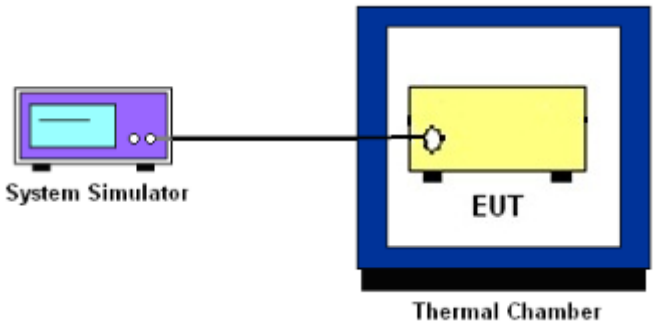
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP

3.2.1 Description of the Conducted Output Power Measurement and ERP

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 14.

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

3.2.2 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.

3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 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.

3.5 Conducted Band Edge Measurement

3.5.1 Description of Conducted Band Edge Measurement

For operations in the 758-768 MHz and the 788-798 MHz bands

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

3.5.2 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 spectrum analyzer with RMS detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. Checked that all the results comply with the emission limit line.

   Example:

   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.

3.6 Emission Mask

3.6.1 Description of Emission Mask

<Emission Mask B>.

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

(1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.

3.6.2 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.7 Conducted Spurious Emission Measurement

3.7.1 Description of Conducted Spurious Emission Measurement

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

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and base station via 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, for under 1GHz RBW = 100kHz, VBW = 300kHz and for above 1GHz RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.

3.8 Frequency Stability Measurement

3.8.1 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 ±1.25 ppm of the center frequency.

3.8.2 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.

3.8.3 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.

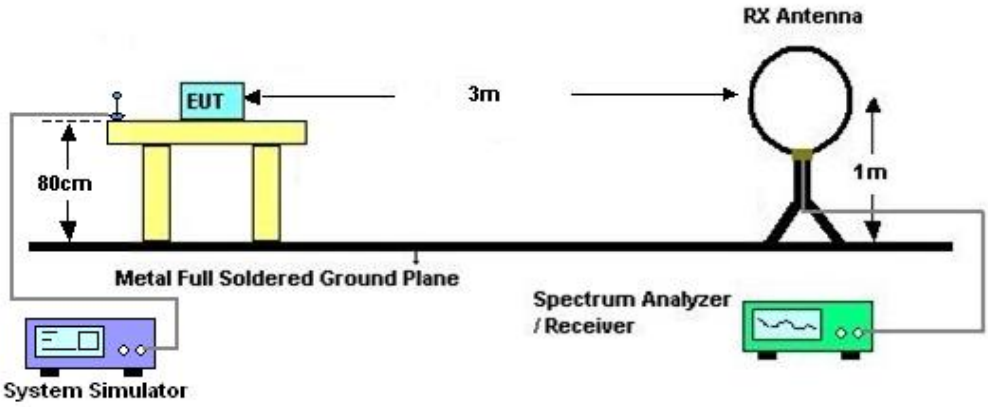
4 Radiated Test Items

4.1 Measuring Instruments

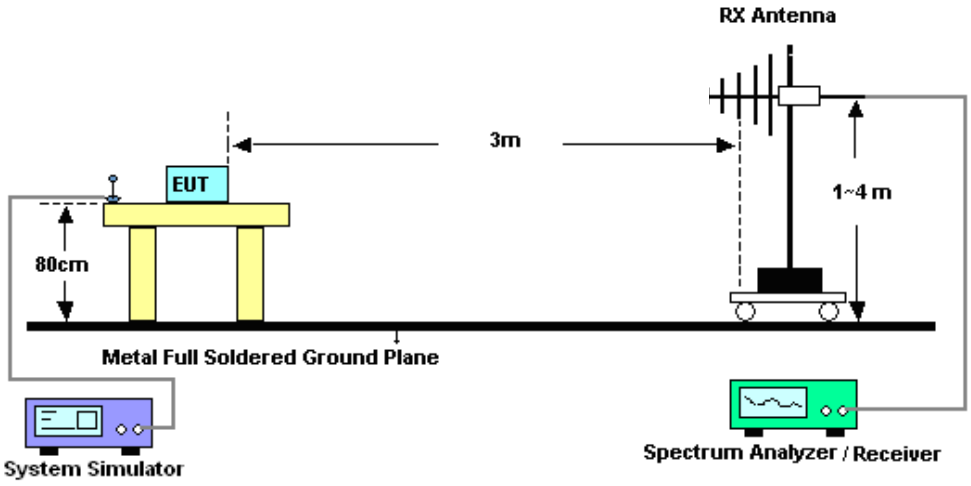
See list of measuring instruments of this test report.

4.2 Test Setup

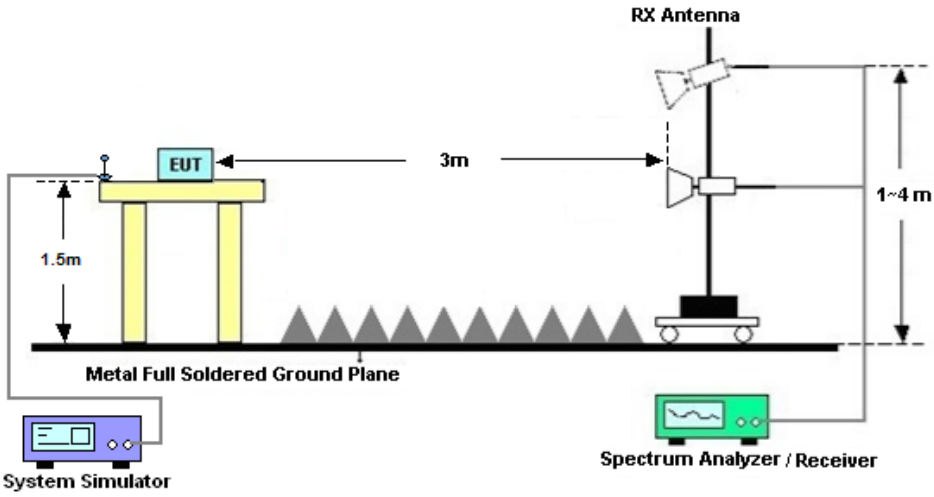
4.2.1 For radiated test below 30MHz



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 Measurement

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 operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022 Oct. 11, 2023	Oct. 09, 2023	Oct. 11, 2023 Oct. 10, 2024	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Oct. 09, 2023	NCR	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 06, 2023	Oct. 09, 2023	Jul. 05, 2024	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471079	10Hz-44G,MAX 30dB	Oct. 12, 2022	Oct. 07, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 11, 2022	Oct. 07, 2023	Oct. 10, 2023	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	Apr. 09, 2023	Oct. 07, 2023	Apr. 08, 2024	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1284	1GHz~18GHz	Oct. 16, 2022	Oct. 07, 2023	Oct. 15, 2023	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2023	Oct. 07, 2023	Jan. 07, 2024	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380827	9KHz-1GHz	Jul. 06, 2023	Oct. 07, 2023	Jul. 05, 2024	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2023	Oct. 07, 2023	Jan. 04, 2024	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 12, 2022	Oct. 07, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
Amplifier	Agilent	8449B	3008A02370	1Ghz-18Ghz	Oct. 12, 2022	Oct. 07, 2023	Oct. 11, 2023	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 07, 2023	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 07, 2023	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 07, 2023	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 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 Power	±0.46 dB
Conducted Emissions	±2.26 dB
Occupied Channel Bandwidth	±0.1 %
Frequency tolerance	0.4ppm

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.82

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.56

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.54

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

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

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23330					
Frequency (MHz)				793				M	
10	QPSK	1	0		23.66			0.3228	
10	QPSK	1	49		23.25			0.2938	
10	QPSK	50	0		22.57			0.2512	
10	16QAM	1	0		23.04			0.2799	
10	64QAM	1	0		22.92			0.2723	
10	256QAM	1	0		22.88			0.2698	
Channel				23305	23330	23355	ERP(W)		
Frequency (MHz)				790.5	793	795.5	L	M	H
5	QPSK	1	0	23.32	23.44	23.40	0.2985	0.3069	0.3041
5	16QAM	1	0	23.00	23.01	22.73	0.2773	0.2780	0.2606

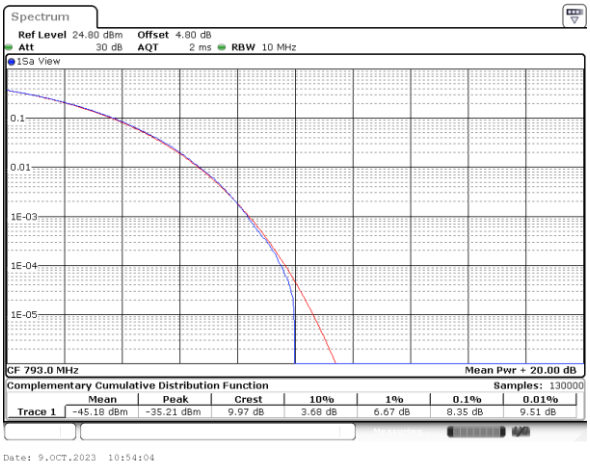
LTE Band 14

Peak-to-Average Ratio

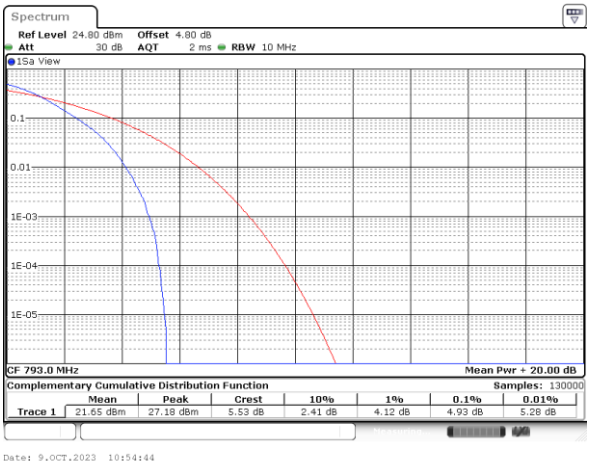
Mode	LTE Band 14 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	8.35	4.93	5.77	6.23	PASS

LTE Band 14 / 10MHz

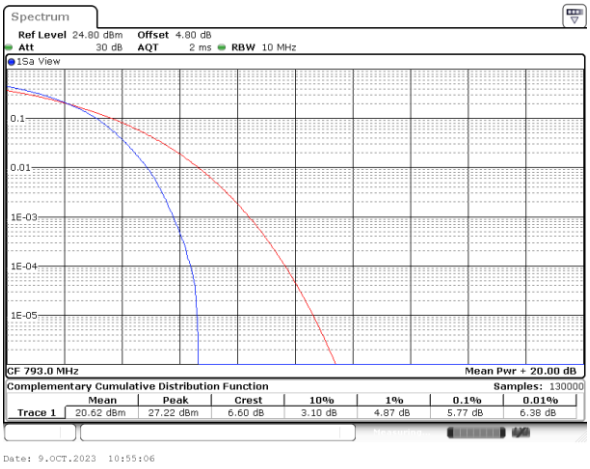
Middle Channel / Full RB/ QPSK



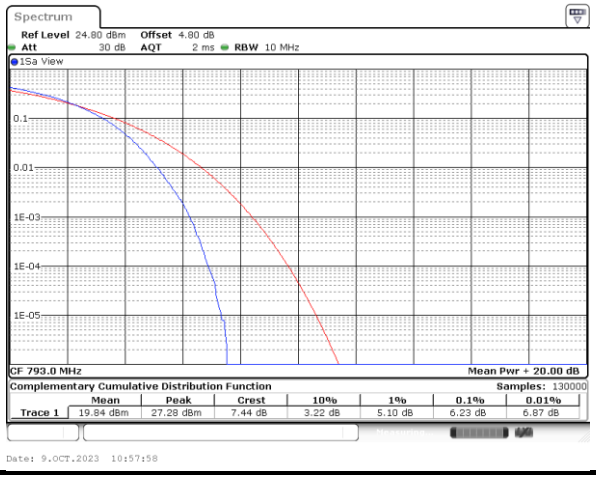
Middle Channel / Full RB/ 16QAM



Middle Channel / Full RB/ 64QAM



Middle Channel / Full RB/ 256QAM

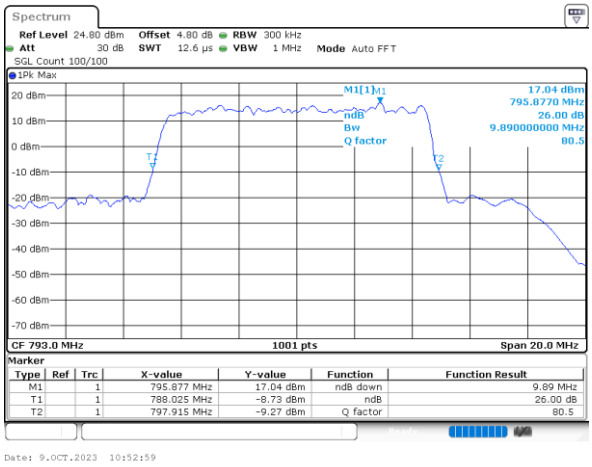


26dB Bandwidth

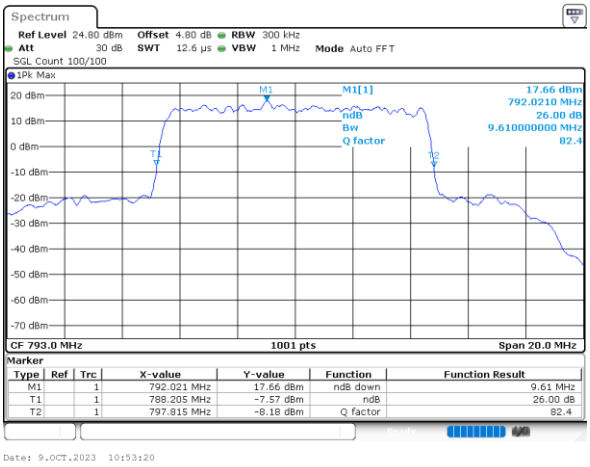
Mode	LTE Band 14 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.89	9.61
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.98	4.96

LTE Band 14

Middle Channel / 10MHz / QPSK

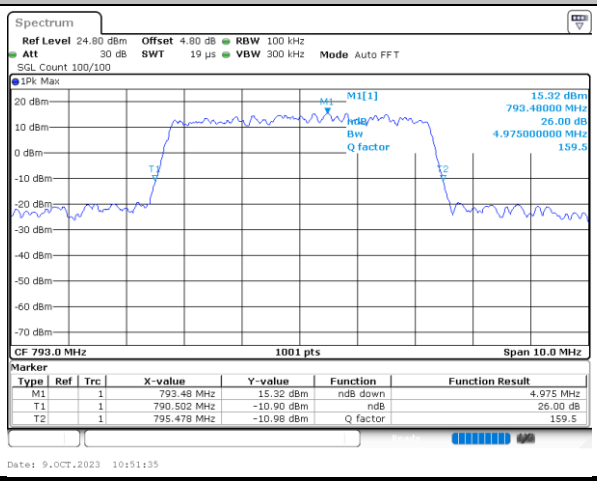


Middle Channel / 10MHz / 16QAM

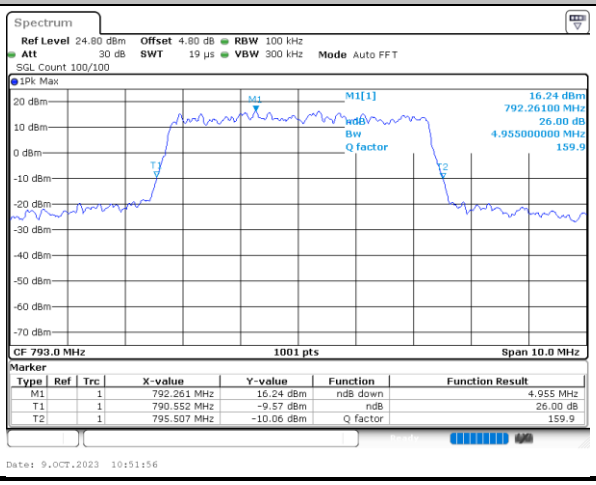


LTE Band 14

Middle Channel /5MHz / QPSK



Middle Channel / 5MHz / 16QAM

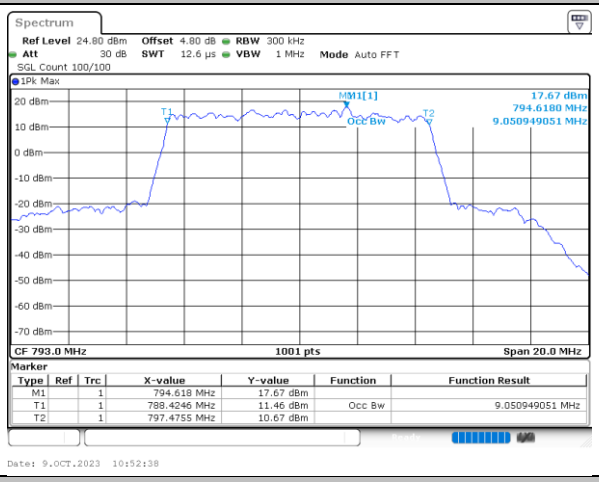


Occupied Bandwidth

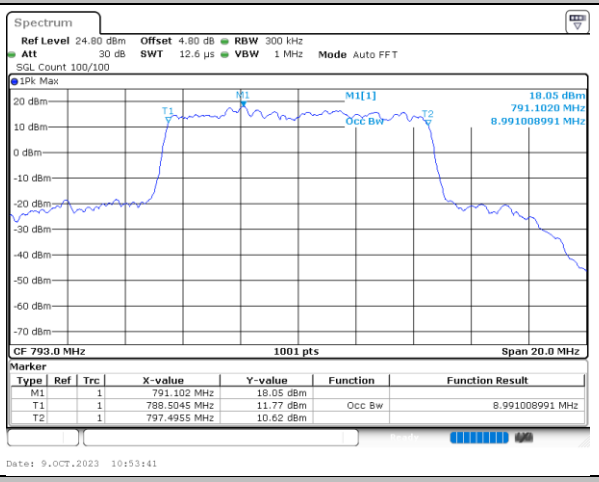
Mode	LTE Band 14 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	8.99
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49

LTE Band 14

Middle Channel / 10MHz / QPSK

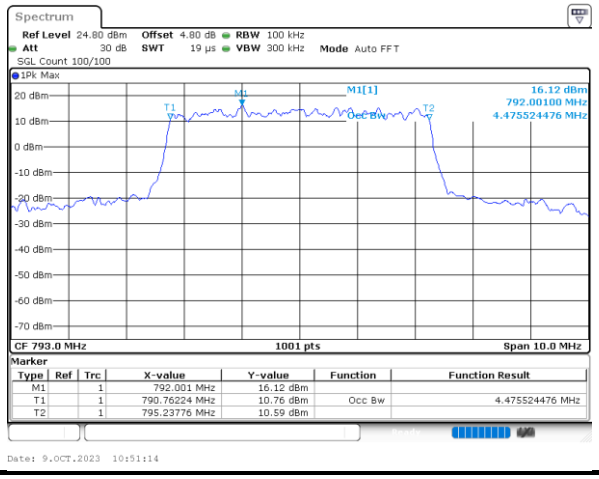


Middle Channel / 10MHz / 16QAM

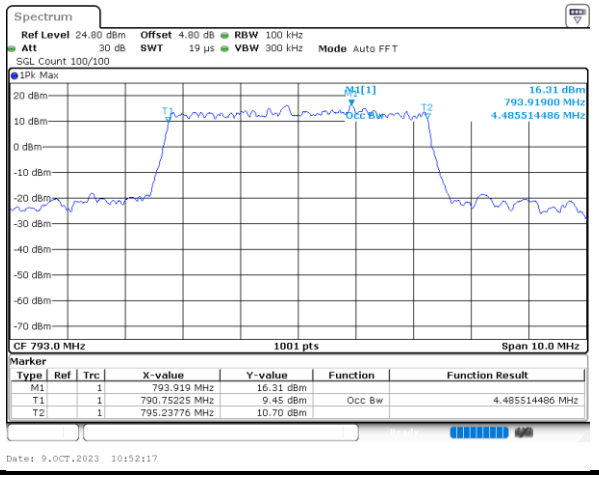


LTE Band 14

Middle Channel / 5MHz / QPSK



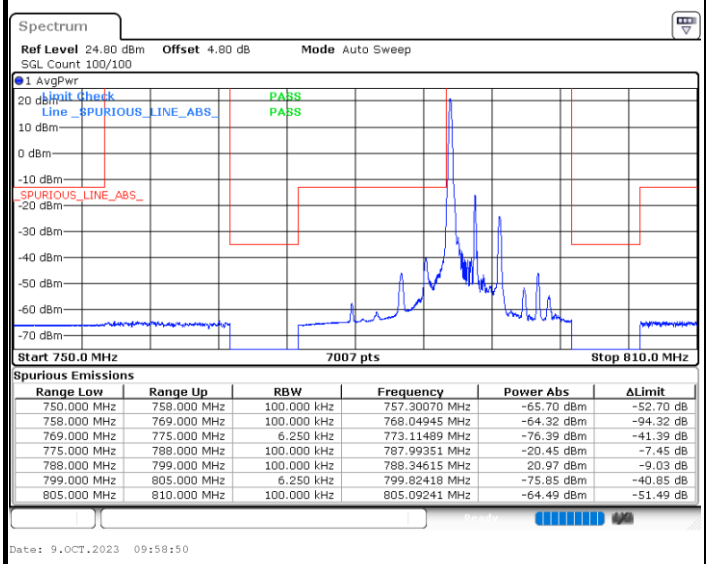
Middle Channel / 5MHz / 16QAM



Conducted Band Edge

LTE Band 14 / 5MHz / QPSK

Lowest Band Edge / 1 RB

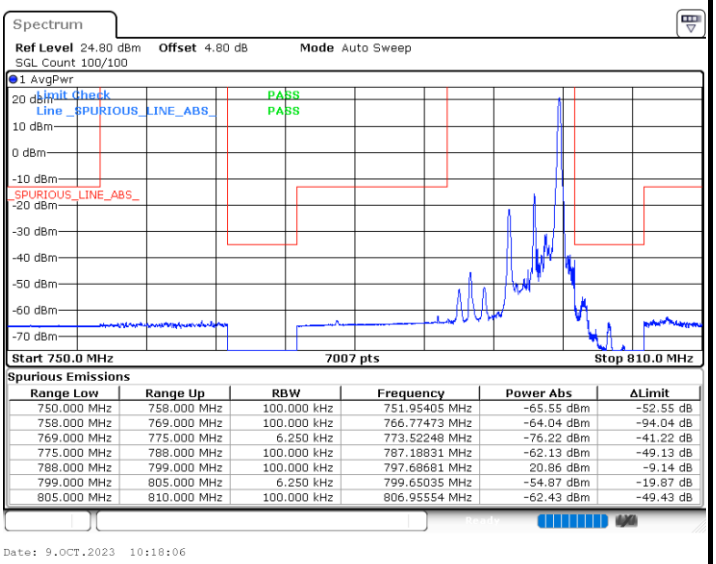


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.30070 MHz	-65.70 dBm	-52.70 dB
758.000 MHz	769.000 MHz	100.000 kHz	768.04945 MHz	-64.32 dBm	-94.32 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.11489 MHz	-76.39 dBm	-41.39 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-20.45 dBm	-7.45 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.34615 MHz	20.97 dBm	-9.03 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.82418 MHz	-75.85 dBm	-40.85 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.09241 MHz	-64.49 dBm	-51.49 dB

Date: 9.OCT.2023 09:58:50

Highest Band Edge / 1 RB

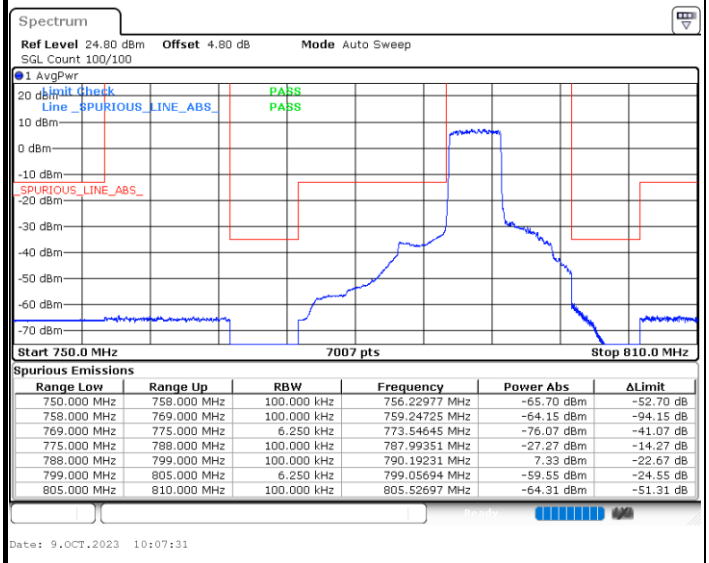


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.95405 MHz	-65.55 dBm	-52.55 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.77473 MHz	-64.04 dBm	-94.04 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.52248 MHz	-76.22 dBm	-41.22 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.18831 MHz	-62.13 dBm	-49.13 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.68681 MHz	20.86 dBm	-9.14 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.65035 MHz	-54.87 dBm	-19.87 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.95554 MHz	-62.43 dBm	-49.43 dB

Date: 9.OCT.2023 10:18:06

Lowest Band Edge / Full RB

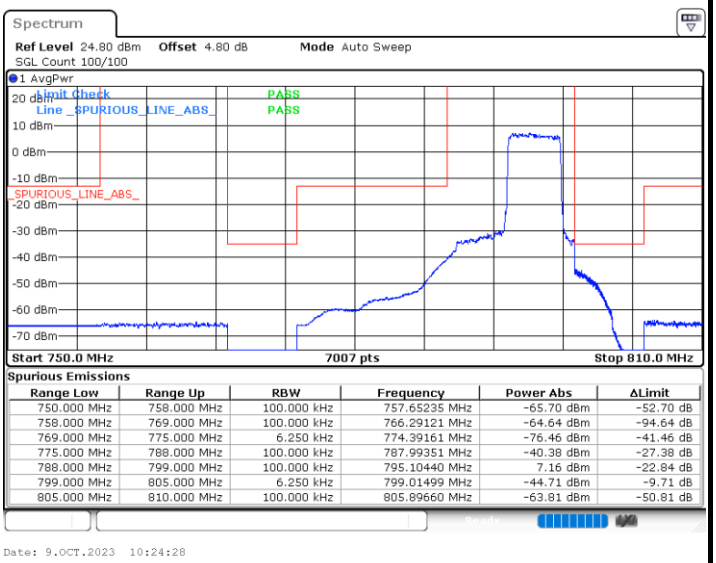


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.22977 MHz	-65.70 dBm	-52.70 dB
758.000 MHz	769.000 MHz	100.000 kHz	759.24725 MHz	-64.15 dBm	-94.15 dB
769.000 MHz	775.000 MHz	6.250 kHz	773.54645 MHz	-76.07 dBm	-41.07 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-27.27 dBm	-14.27 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.19231 MHz	7.33 dBm	-22.67 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.05694 MHz	-59.55 dBm	-24.55 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.52697 MHz	-64.31 dBm	-51.31 dB

Date: 9.OCT.2023 10:07:31

Highest Band Edge / Full RB



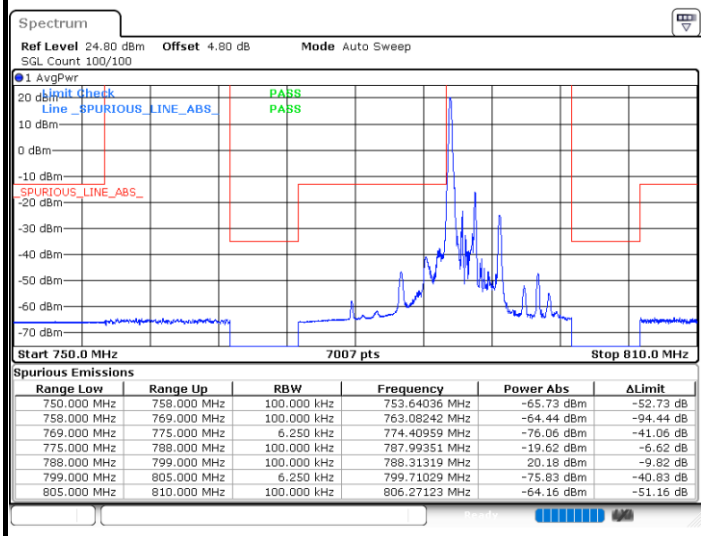
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.65235 MHz	-65.70 dBm	-52.70 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.29121 MHz	-64.64 dBm	-94.64 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.39161 MHz	-76.46 dBm	-41.46 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-40.38 dBm	-27.38 dB
788.000 MHz	799.000 MHz	100.000 kHz	795.10440 MHz	7.16 dBm	-22.84 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.01499 MHz	-44.71 dBm	-9.71 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.89660 MHz	-63.81 dBm	-50.81 dB

Date: 9.OCT.2023 10:24:28

LTE Band 14 / 5MHz / 16QAM

Lowest Band Edge /1 RB

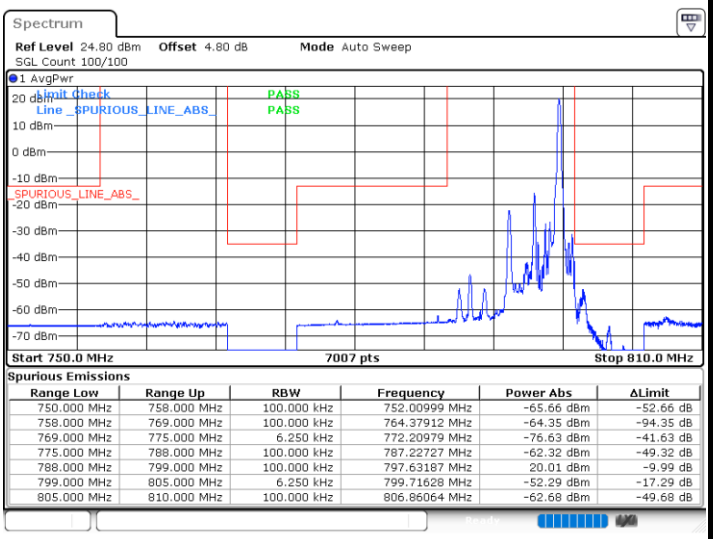


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	753.64036 MHz	-65.73 dBm	-52.73 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.08242 MHz	-64.44 dBm	-94.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.40959 MHz	-76.06 dBm	-41.06 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-19.62 dBm	-6.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.31319 MHz	20.18 dBm	-9.82 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.71029 MHz	-75.83 dBm	-40.83 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.27123 MHz	-64.16 dBm	-51.16 dB

Date: 9.OCT.2023 10:00:04

Highest Band Edge / 1 RB

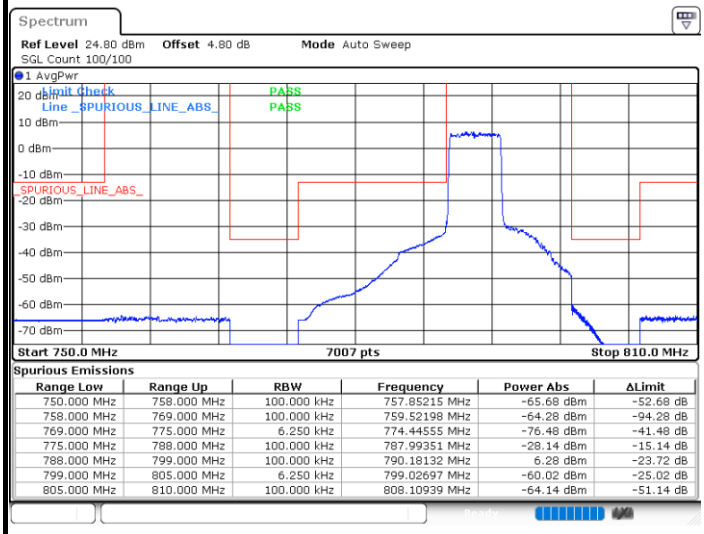


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	752.00999 MHz	-65.66 dBm	-52.66 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.37912 MHz	-64.35 dBm	-94.35 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.20979 MHz	-76.63 dBm	-41.63 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.22727 MHz	-62.32 dBm	-49.32 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.63187 MHz	20.01 dBm	-9.99 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.71628 MHz	-52.29 dBm	-17.29 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.86064 MHz	-62.68 dBm	-49.68 dB

Date: 9.OCT.2023 10:19:27

Lowest Band Edge / Full RB

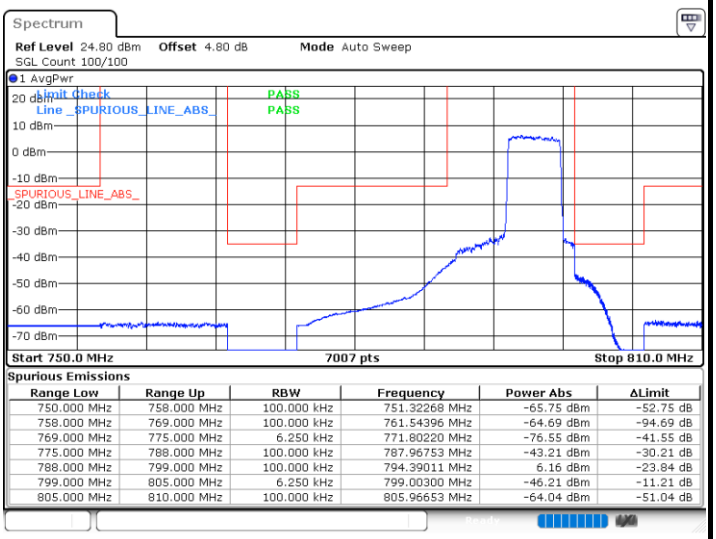


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.85215 MHz	-65.68 dBm	-52.68 dB
758.000 MHz	769.000 MHz	100.000 kHz	759.52198 MHz	-64.28 dBm	-94.28 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.44555 MHz	-76.48 dBm	-41.48 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-28.14 dBm	-15.14 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.18132 MHz	6.28 dBm	-23.72 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.02697 MHz	-60.02 dBm	-25.02 dB
805.000 MHz	810.000 MHz	100.000 kHz	808.10939 MHz	-64.14 dBm	-51.14 dB

Date: 9.OCT.2023 10:08:52

Highest Band Edge / Full RB



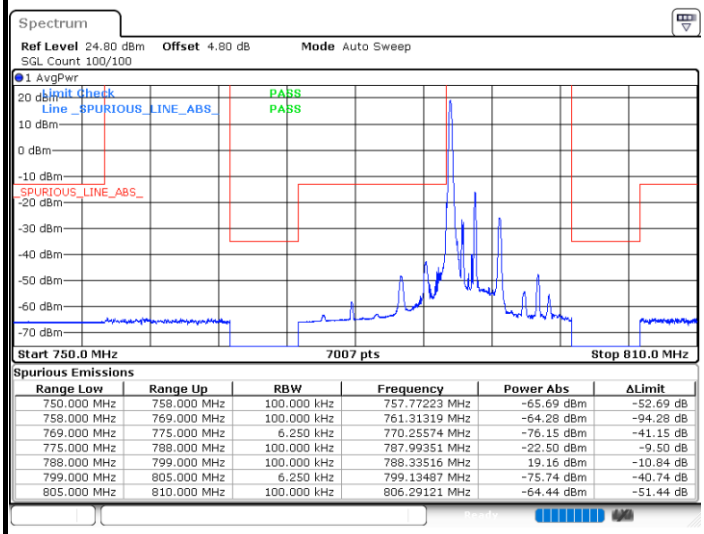
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.32268 MHz	-65.75 dBm	-52.75 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.54396 MHz	-64.69 dBm	-94.69 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.80220 MHz	-76.55 dBm	-41.55 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.96753 MHz	-43.21 dBm	-30.21 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.39011 MHz	6.16 dBm	-23.84 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00300 MHz	-46.21 dBm	-11.21 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.96653 MHz	-64.04 dBm	-51.04 dB

Date: 9.OCT.2023 10:25:49

LTE Band 14 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

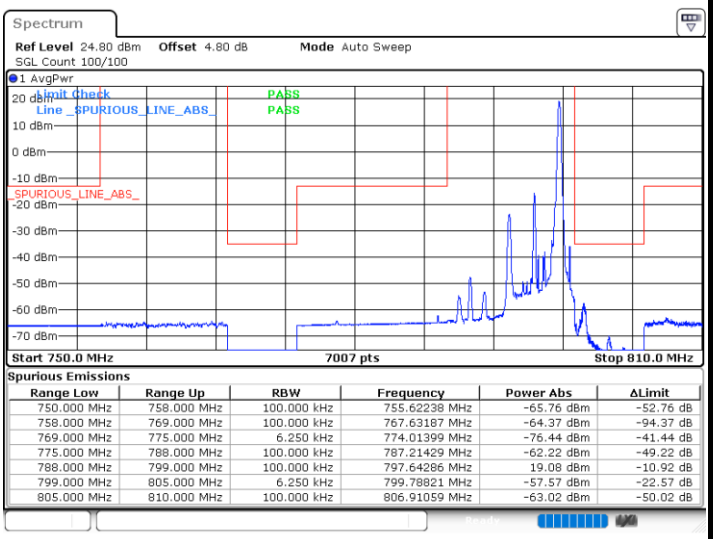


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.77223 MHz	-65.69 dBm	-52.69 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.31319 MHz	-64.28 dBm	-94.28 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.25574 MHz	-76.15 dBm	-41.15 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-22.50 dBm	-9.50 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.33516 MHz	19.16 dBm	-10.84 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.13487 MHz	-75.74 dBm	-40.74 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.29121 MHz	-64.44 dBm	-51.44 dB

Date: 9.OCT.2023 10:01:25

Highest Band Edge / 1 RB

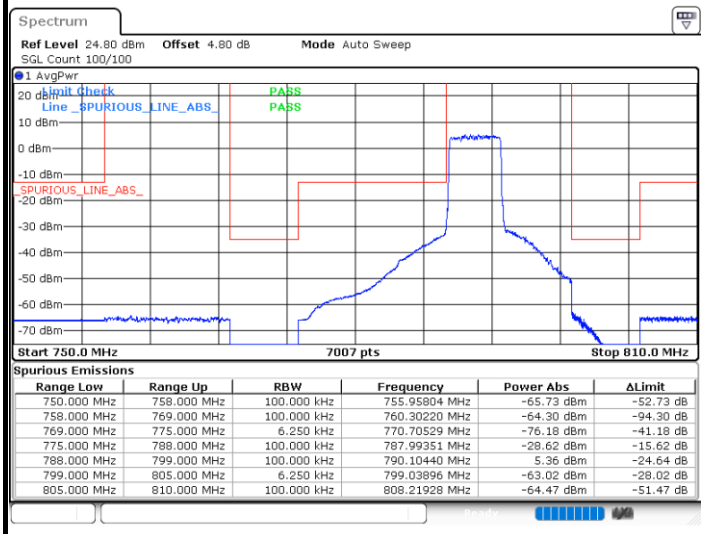


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.62238 MHz	-65.76 dBm	-52.76 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.63187 MHz	-64.37 dBm	-94.37 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.01399 MHz	-76.44 dBm	-41.44 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.21429 MHz	-62.22 dBm	-49.22 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.64286 MHz	19.08 dBm	-10.92 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.78821 MHz	-57.57 dBm	-22.57 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.91059 MHz	-63.02 dBm	-50.02 dB

Date: 9.OCT.2023 10:21:11

Lowest Band Edge / Full RB

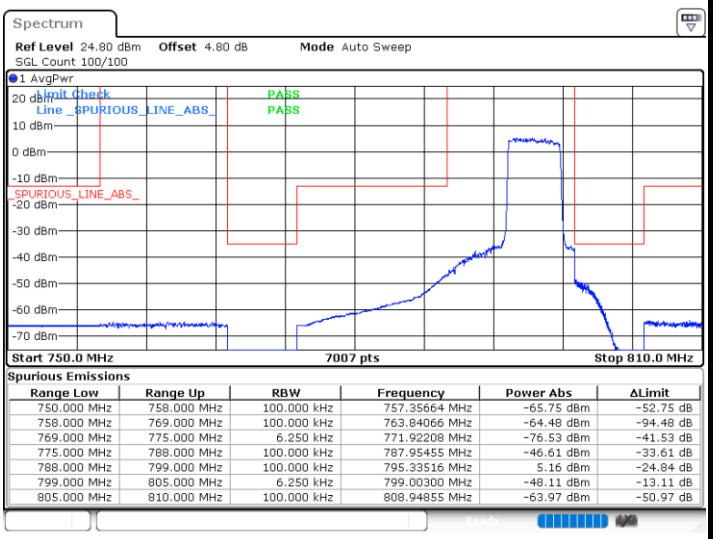


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.95804 MHz	-65.73 dBm	-52.73 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.30220 MHz	-64.30 dBm	-94.30 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.70529 MHz	-76.18 dBm	-41.18 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-28.62 dBm	-15.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.10440 MHz	5.36 dBm	-24.64 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.03896 MHz	-63.02 dBm	-28.02 dB
805.000 MHz	810.000 MHz	100.000 kHz	808.21928 MHz	-64.47 dBm	-51.47 dB

Date: 9.OCT.2023 10:10:12

Highest Band Edge / Full RB



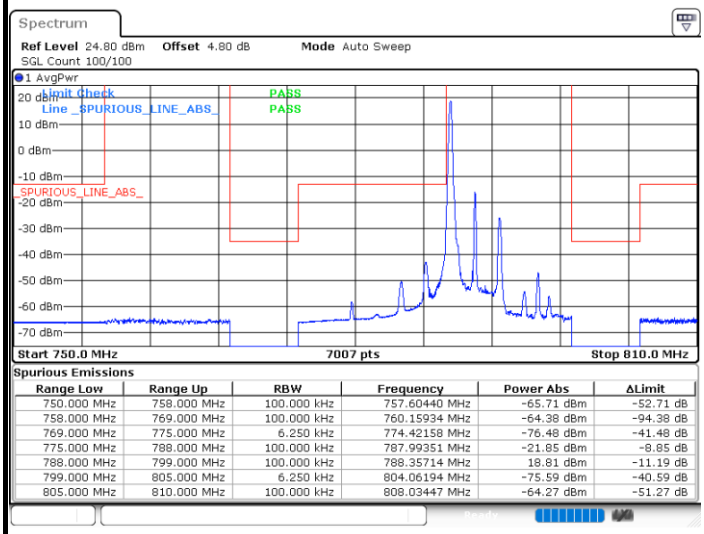
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.35664 MHz	-65.75 dBm	-52.75 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.84066 MHz	-64.48 dBm	-94.48 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.92208 MHz	-76.53 dBm	-41.53 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.95455 MHz	-46.61 dBm	-33.61 dB
788.000 MHz	799.000 MHz	100.000 kHz	795.33516 MHz	5.16 dBm	-24.84 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00300 MHz	-48.11 dBm	-13.11 dB
805.000 MHz	810.000 MHz	100.000 kHz	808.94855 MHz	-63.97 dBm	-50.97 dB

Date: 9.OCT.2023 10:27:10

LTE Band 14 / 5MHz / 256QAM

Lowest Band Edge / 1 RB

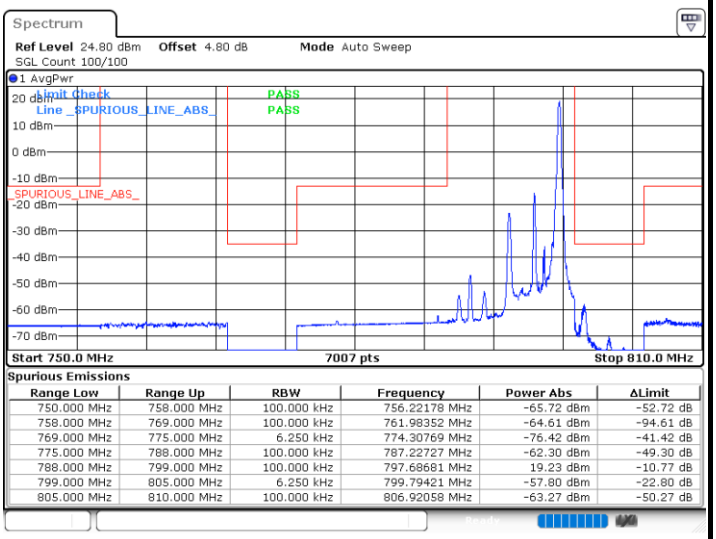


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.60440 MHz	-65.71 dBm	-52.71 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.15934 MHz	-64.38 dBm	-94.38 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.42158 MHz	-76.48 dBm	-41.48 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-21.85 dBm	-8.85 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.35714 MHz	18.81 dBm	-11.19 dB
799.000 MHz	805.000 MHz	6.250 kHz	804.06194 MHz	-75.59 dBm	-40.59 dB
805.000 MHz	810.000 MHz	100.000 kHz	808.03447 MHz	-64.27 dBm	-51.27 dB

Date: 9.OCT.2023 10:05:51

Highest Band Edge / 1 RB

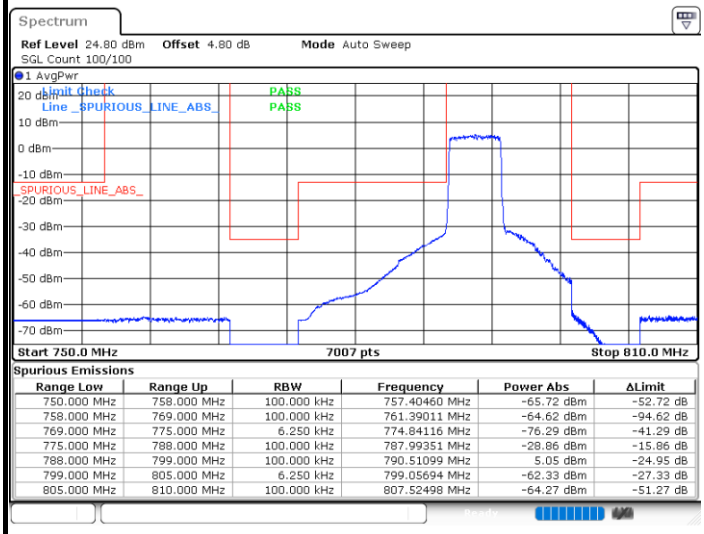


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.22178 MHz	-65.72 dBm	-52.72 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.98352 MHz	-64.61 dBm	-94.61 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.30769 MHz	-76.42 dBm	-41.42 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.22727 MHz	-62.30 dBm	-49.30 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.68681 MHz	19.23 dBm	-10.77 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.79421 MHz	-57.80 dBm	-22.80 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.92058 MHz	-63.27 dBm	-50.27 dB

Date: 9.OCT.2023 10:22:33

Lowest Band Edge / Full RB

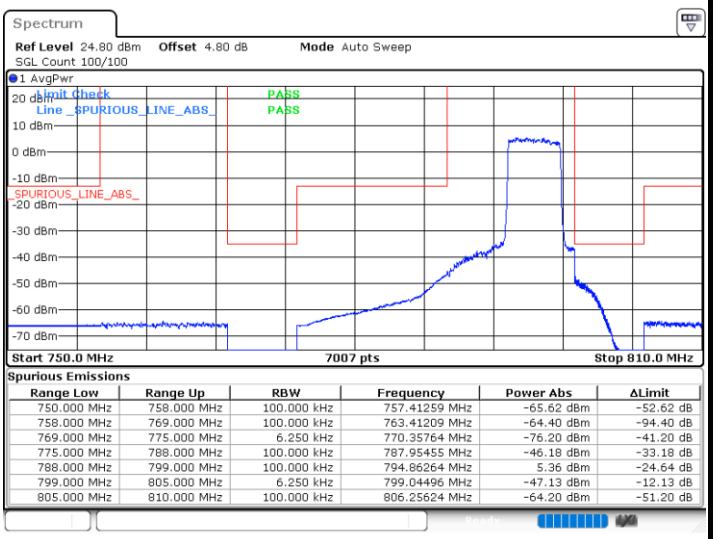


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.40460 MHz	-65.72 dBm	-52.72 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.39011 MHz	-64.62 dBm	-94.62 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.84116 MHz	-76.29 dBm	-41.29 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-28.86 dBm	-15.86 dB
788.000 MHz	799.000 MHz	100.000 kHz	790.51099 MHz	5.05 dBm	-24.95 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.05694 MHz	-62.33 dBm	-27.33 dB
805.000 MHz	810.000 MHz	100.000 kHz	807.52498 MHz	-64.27 dBm	-51.27 dB

Date: 9.OCT.2023 10:11:34

Highest Band Edge / Full RB



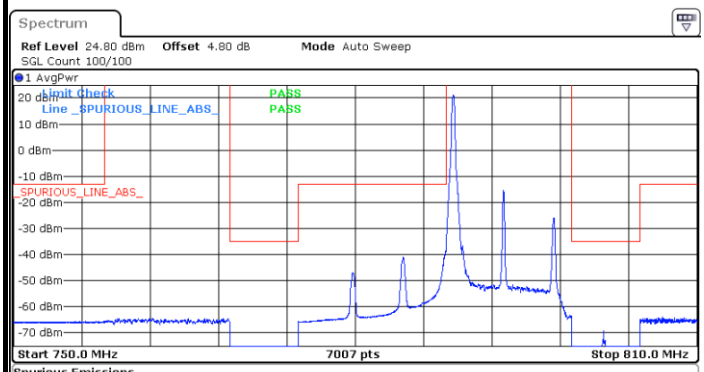
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.41259 MHz	-65.62 dBm	-52.62 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.41209 MHz	-64.40 dBm	-94.40 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.35764 MHz	-76.20 dBm	-41.20 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.95455 MHz	-46.18 dBm	-33.18 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.86264 MHz	5.36 dBm	-24.64 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.04496 MHz	-47.13 dBm	-12.13 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.25624 MHz	-64.20 dBm	-51.20 dB

Date: 9.OCT.2023 10:28:31

LTE Band 14 / 10MHz / QPSK

Lowest Band Edge / 1 RB

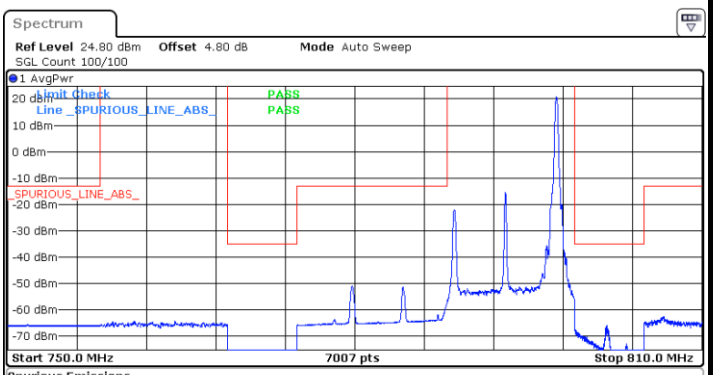


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.93207 MHz	-65.67 dBm	-52.67 dB
758.000 MHz	769.000 MHz	100.000 kHz	762.21429 MHz	-64.44 dBm	-94.44 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.12188 MHz	-76.43 dBm	-41.43 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.35 dBm	-21.35 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.59890 MHz	21.11 dBm	-8.89 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.80220 MHz	-69.23 dBm	-34.23 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.93057 MHz	-63.85 dBm	-50.85 dB

Date: 9.OCT.2023 10:31:57

Highest Band Edge / 1 RB

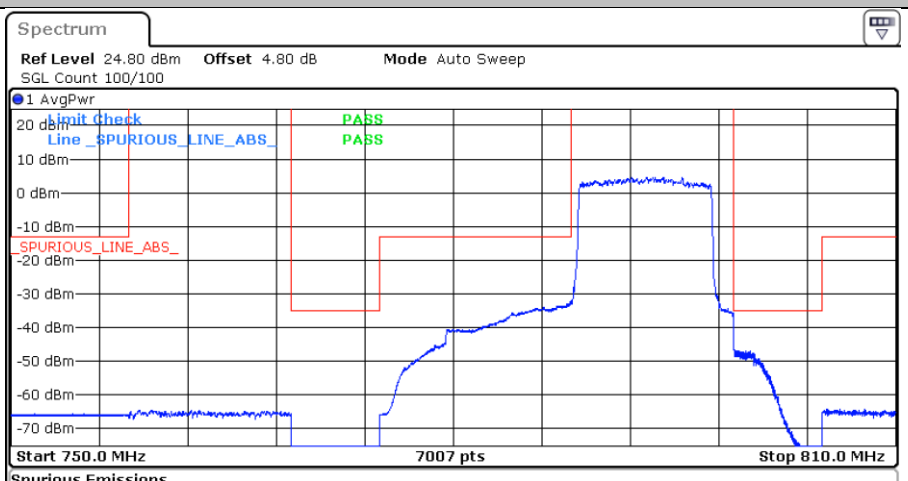


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.70629 MHz	-65.61 dBm	-52.61 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.45604 MHz	-64.30 dBm	-94.30 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.81219 MHz	-76.38 dBm	-41.38 dB
775.000 MHz	788.000 MHz	100.000 kHz	779.77273 MHz	-51.11 dBm	-38.11 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.41209 MHz	20.77 dBm	-9.23 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.77822 MHz	-66.03 dBm	-31.03 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.68082 MHz	-62.48 dBm	-49.48 dB

Date: 9.OCT.2023 10:37:19

Band Edge / Full RB



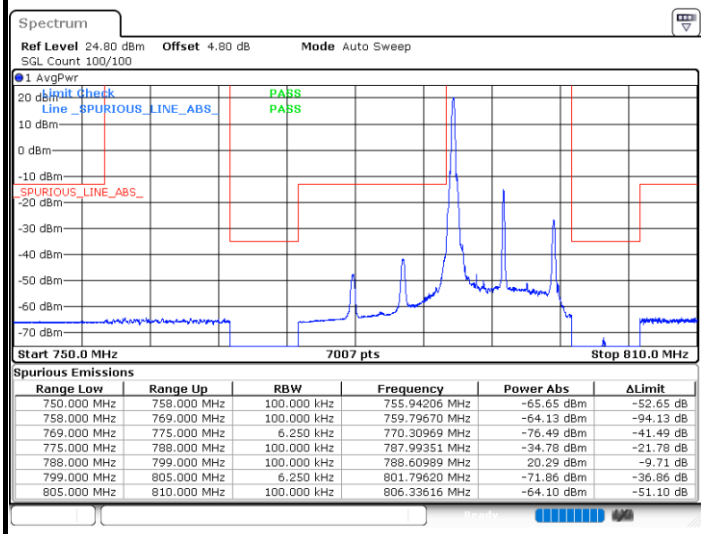
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.58641 MHz	-65.70 dBm	-52.70 dB
758.000 MHz	769.000 MHz	100.000 kHz	762.22527 MHz	-64.50 dBm	-94.50 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.31968 MHz	-76.44 dBm	-41.44 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-32.03 dBm	-19.03 dB
788.000 MHz	799.000 MHz	100.000 kHz	794.24725 MHz	4.62 dBm	-25.38 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.02098 MHz	-46.63 dBm	-11.63 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.31718 MHz	-64.27 dBm	-51.27 dB

Date: 9.OCT.2023 10:46:52

LTE Band 14 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

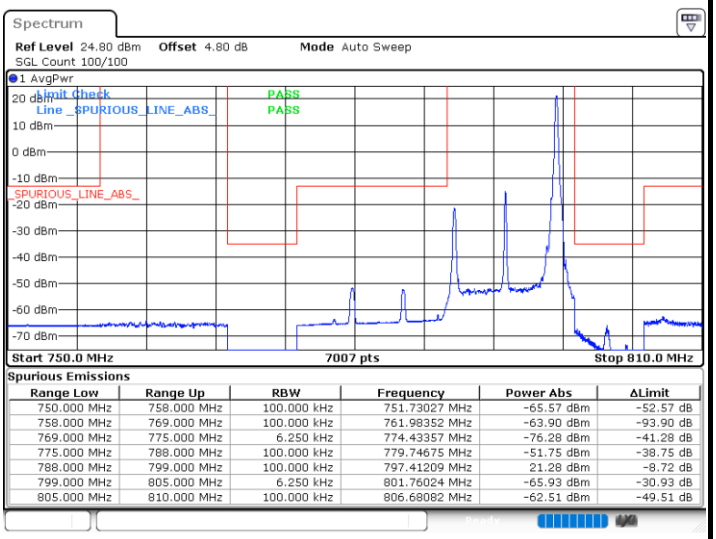


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.94206 MHz	-65.65 dBm	-52.65 dB
758.000 MHz	769.000 MHz	100.000 kHz	759.79670 MHz	-64.13 dBm	-94.13 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.30969 MHz	-76.49 dBm	-41.49 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.78 dBm	-21.78 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.60989 MHz	20.29 dBm	-9.71 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.79620 MHz	-71.86 dBm	-36.86 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.33616 MHz	-64.10 dBm	-51.10 dB

Date: 9.OCT.2023 10:33:18

Highest Band Edge / 1 RB

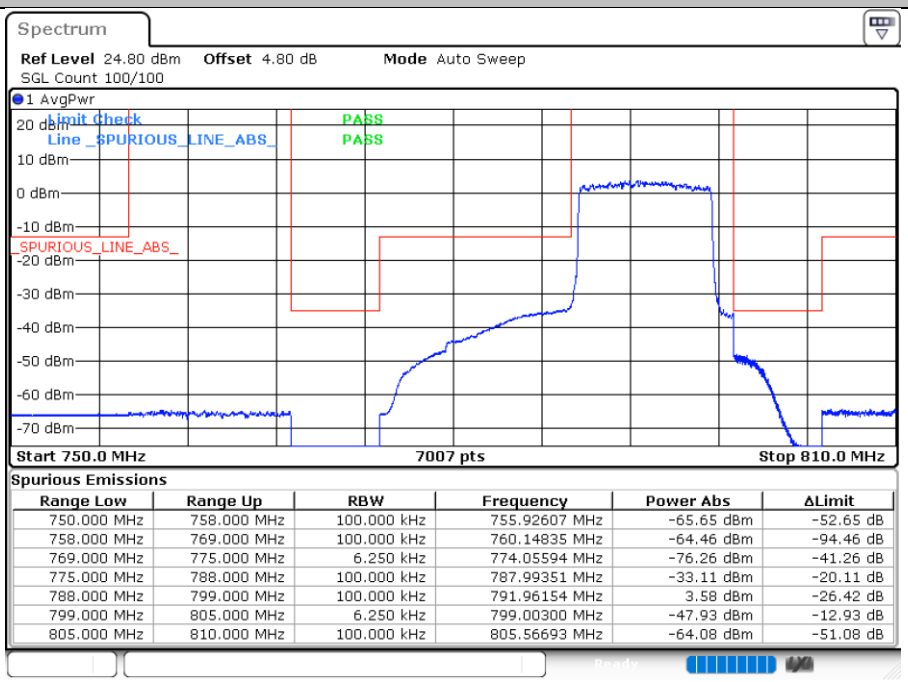


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.73027 MHz	-65.57 dBm	-52.57 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.98352 MHz	-63.90 dBm	-93.90 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.43357 MHz	-76.28 dBm	-41.28 dB
775.000 MHz	788.000 MHz	100.000 kHz	779.74675 MHz	-51.75 dBm	-38.75 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.41209 MHz	21.28 dBm	-8.72 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.76024 MHz	-65.93 dBm	-30.93 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.68082 MHz	-62.51 dBm	-49.51 dB

Date: 9.OCT.2023 10:38:39

Band Edge / Full RB



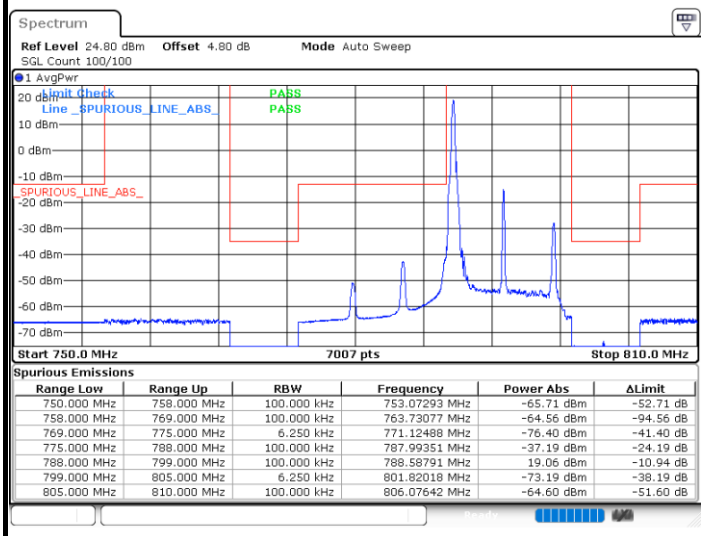
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.92607 MHz	-65.65 dBm	-52.65 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.14835 MHz	-64.46 dBm	-94.46 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.05594 MHz	-76.26 dBm	-41.26 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-33.11 dBm	-20.11 dB
788.000 MHz	799.000 MHz	100.000 kHz	791.96154 MHz	3.58 dBm	-26.42 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.00300 MHz	-47.93 dBm	-12.93 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.56693 MHz	-64.08 dBm	-51.08 dB

Date: 9.OCT.2023 10:48:12

LTE Band 14 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

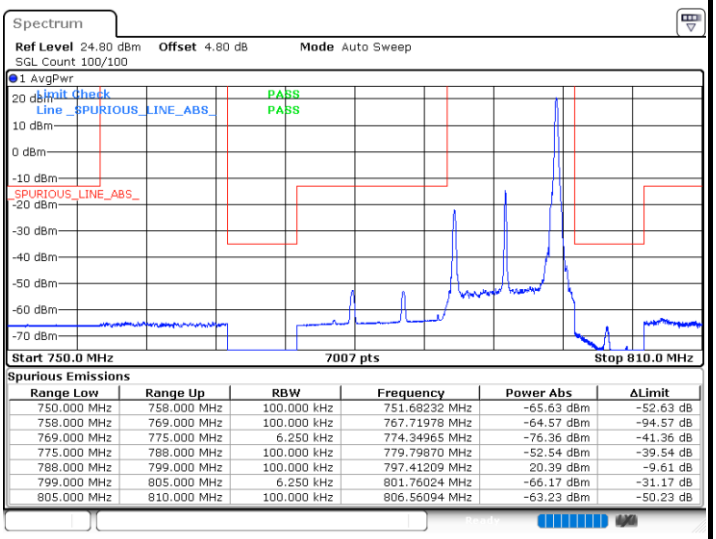


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	753.07293 MHz	-65.71 dBm	-52.71 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.73077 MHz	-64.56 dBm	-94.56 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.12488 MHz	-76.40 dBm	-41.40 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-37.19 dBm	-24.19 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.58791 MHz	19.06 dBm	-10.94 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.82018 MHz	-73.19 dBm	-38.19 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.07642 MHz	-64.60 dBm	-51.60 dB

Date: 9.OCT.2023 10:34:38

Highest Band Edge / 1 RB

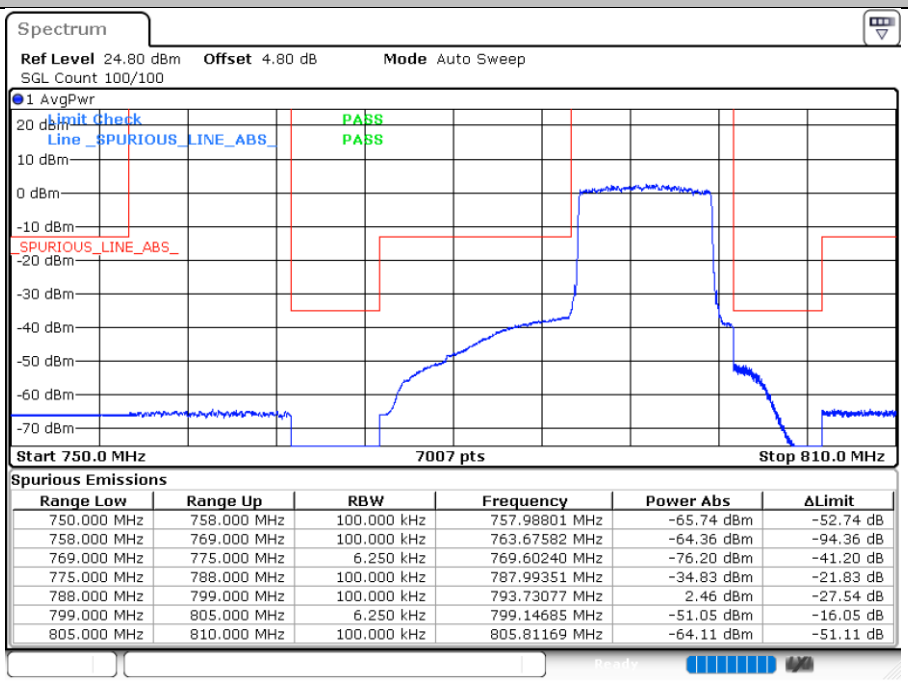


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.68232 MHz	-65.63 dBm	-52.63 dB
758.000 MHz	769.000 MHz	100.000 kHz	767.71978 MHz	-64.57 dBm	-94.57 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.34965 MHz	-76.36 dBm	-41.36 dB
775.000 MHz	788.000 MHz	100.000 kHz	779.79870 MHz	-52.54 dBm	-39.54 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.41209 MHz	20.39 dBm	-9.61 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.76024 MHz	-66.17 dBm	-31.17 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.56094 MHz	-63.23 dBm	-50.23 dB

Date: 9.OCT.2023 10:39:59

Band Edge / Full RB



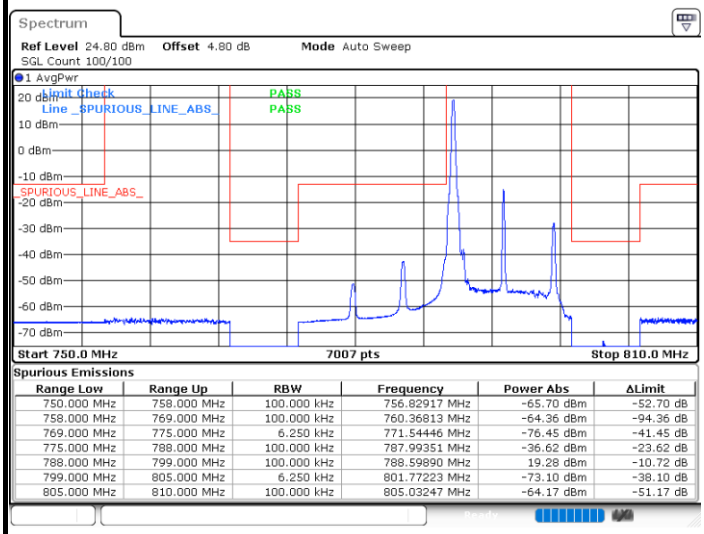
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	757.98801 MHz	-65.74 dBm	-52.74 dB
758.000 MHz	769.000 MHz	100.000 kHz	763.67582 MHz	-64.36 dBm	-94.36 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.60240 MHz	-76.20 dBm	-41.20 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.83 dBm	-21.83 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.73077 MHz	2.46 dBm	-27.54 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.14685 MHz	-51.05 dBm	-16.05 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.81169 MHz	-64.11 dBm	-51.11 dB

Date: 9.OCT.2023 10:49:32

LTE Band 14 / 10MHz / 256QAM

Lowest Band Edge / 1 RB

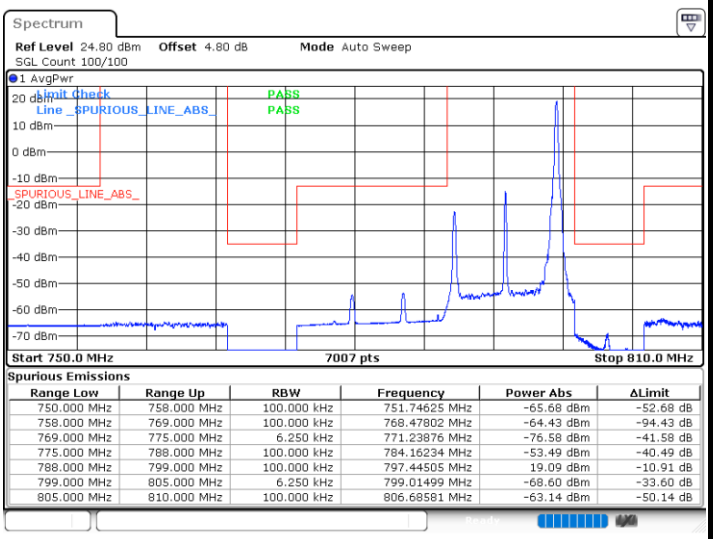


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.82917 MHz	-65.70 dBm	-52.70 dB
758.000 MHz	769.000 MHz	100.000 kHz	760.36813 MHz	-64.36 dBm	-94.36 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.54446 MHz	-76.45 dBm	-41.45 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-36.62 dBm	-23.62 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.59890 MHz	19.28 dBm	-10.72 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.77223 MHz	-73.10 dBm	-38.10 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.03247 MHz	-64.17 dBm	-51.17 dB

Date: 9.OCT.2023 10:35:59

Highest Band Edge / 1 RB

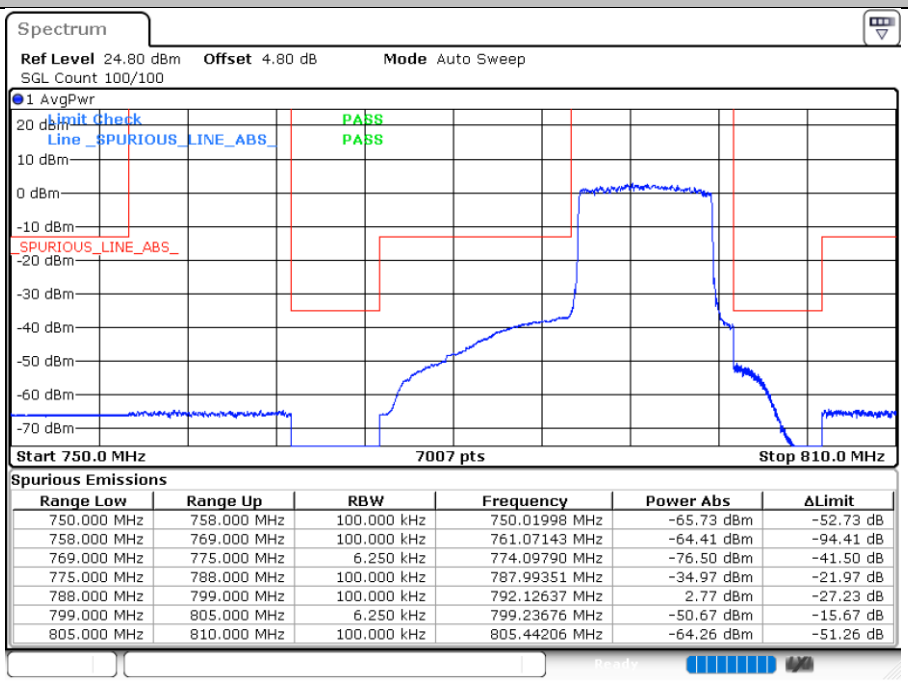


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.74625 MHz	-65.68 dBm	-52.68 dB
758.000 MHz	769.000 MHz	100.000 kHz	768.47802 MHz	-64.43 dBm	-94.43 dB
769.000 MHz	775.000 MHz	6.250 kHz	771.23876 MHz	-76.58 dBm	-41.58 dB
775.000 MHz	788.000 MHz	100.000 kHz	784.16234 MHz	-53.49 dBm	-40.49 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.44505 MHz	19.09 dBm	-10.91 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.01499 MHz	-68.60 dBm	-33.60 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.68581 MHz	-63.14 dBm	-50.14 dB

Date: 9.OCT.2023 10:41:19

Band Edge / Full RB



Spurious Emissions

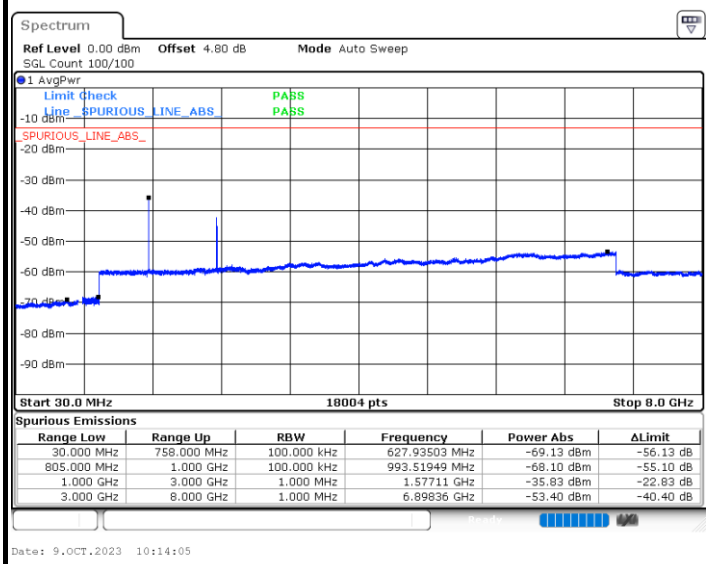
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	750.01998 MHz	-65.73 dBm	-52.73 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.07143 MHz	-64.41 dBm	-94.41 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.09790 MHz	-76.50 dBm	-41.50 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.97 dBm	-21.97 dB
788.000 MHz	799.000 MHz	100.000 kHz	792.12637 MHz	2.77 dBm	-27.23 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.23676 MHz	-50.67 dBm	-15.67 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.44206 MHz	-64.26 dBm	-51.26 dB

Date: 9.OCT.2023 10:50:52

Conducted Spurious Emission

LTE Band 14 / 5MHz

Lowest Channel / QPSK

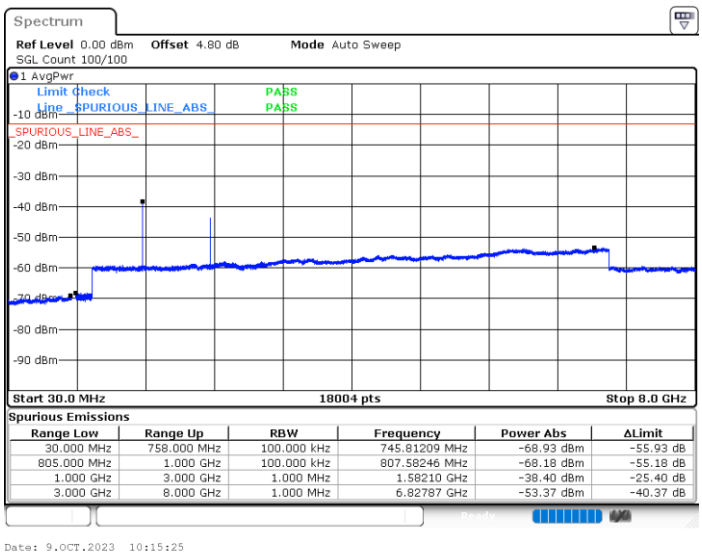


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	627.93503 MHz	-69.13 dBm	-56.13 dB
805.000 MHz	1.000 GHz	100.000 kHz	993.51949 MHz	-68.10 dBm	-55.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-35.83 dBm	-22.83 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.89836 GHz	-53.40 dBm	-40.40 dB

Date: 9.OCT.2023 10:14:05

Middle Channel / QPSK

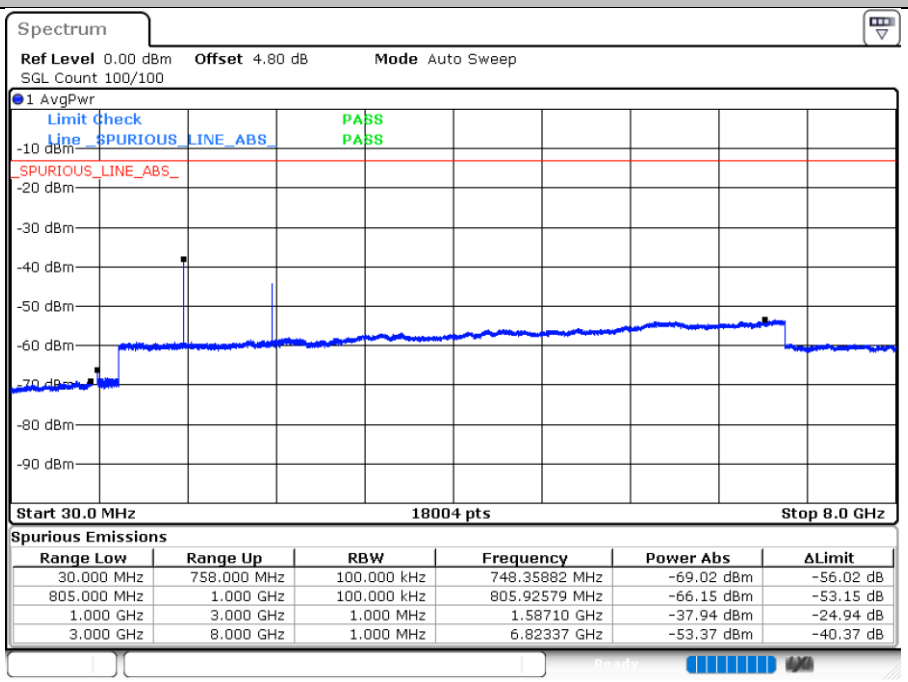


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	745.81209 MHz	-68.93 dBm	-55.93 dB
805.000 MHz	1.000 GHz	100.000 kHz	807.58246 MHz	-68.18 dBm	-55.18 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-38.40 dBm	-25.40 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.82787 GHz	-53.37 dBm	-40.37 dB

Date: 9.OCT.2023 10:15:25

Highest Channel / QPSK



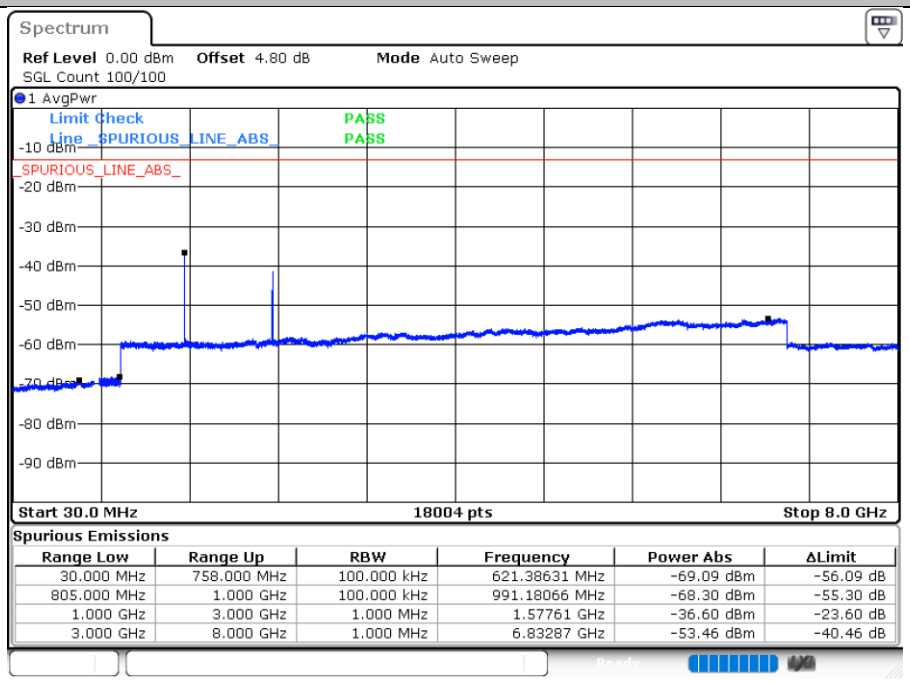
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	748.35882 MHz	-69.02 dBm	-56.02 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.92579 MHz	-66.15 dBm	-53.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-37.94 dBm	-24.94 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.82337 GHz	-53.37 dBm	-40.37 dB

Date: 9.OCT.2023 10:16:45

LTE Band 14 / 10MHz

Middle Channel / QPSK



Spurious Emissions

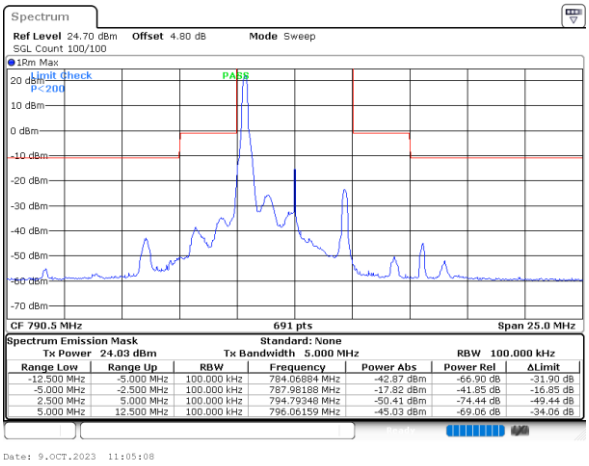
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	621.38631 MHz	-69.09 dBm	-56.09 dB
805.000 MHz	1.000 GHz	100.000 kHz	991.18066 MHz	-68.30 dBm	-55.30 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-36.60 dBm	-23.60 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.83287 GHz	-53.46 dBm	-40.46 dB

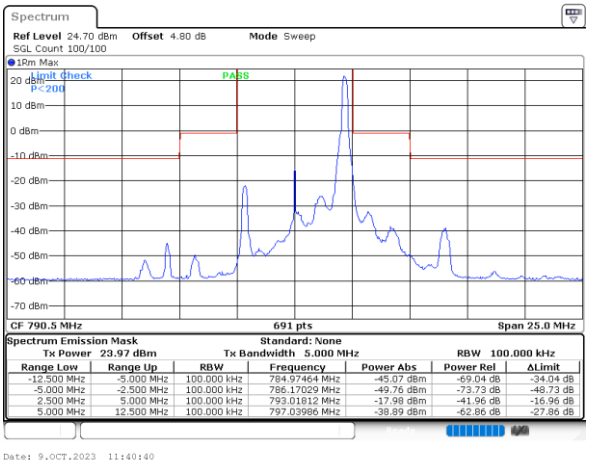
Date: 9.OCT.2023 10:30:37

Mask

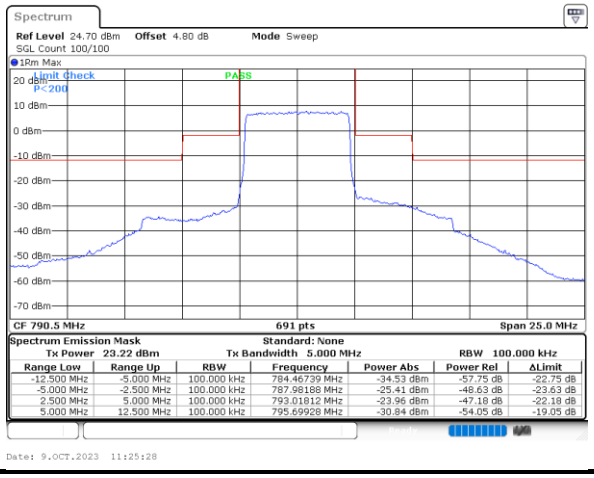
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



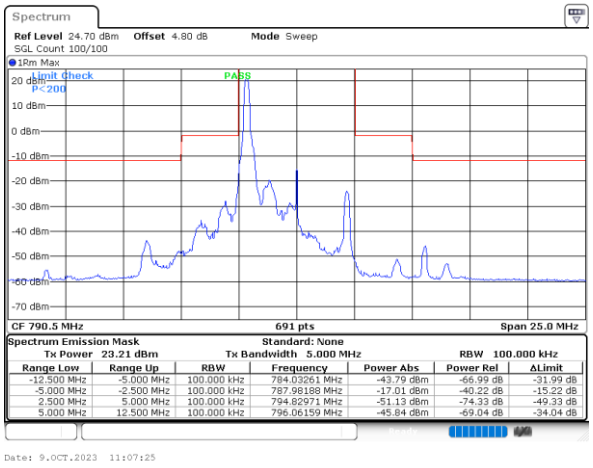


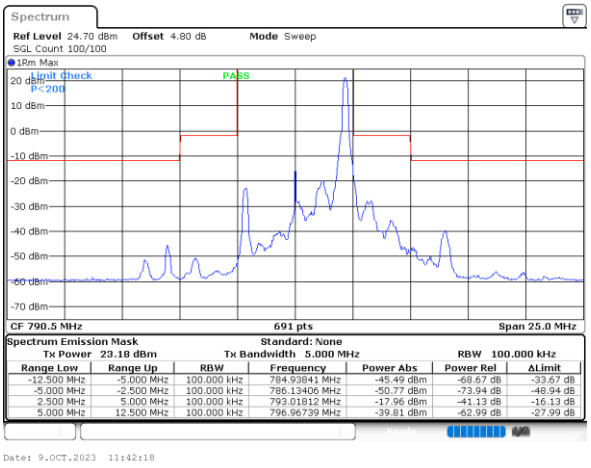
Lowest Channel / Full RB



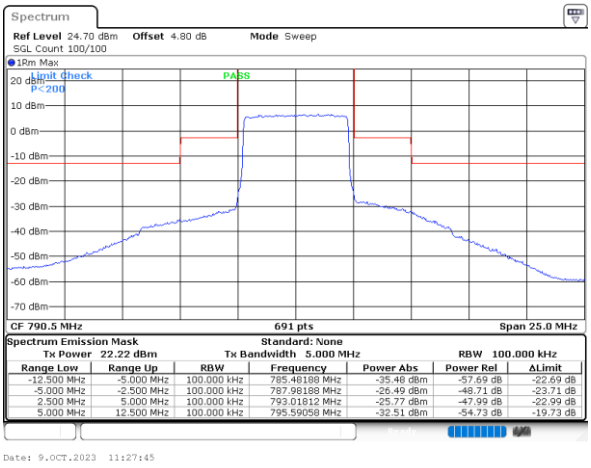
LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB



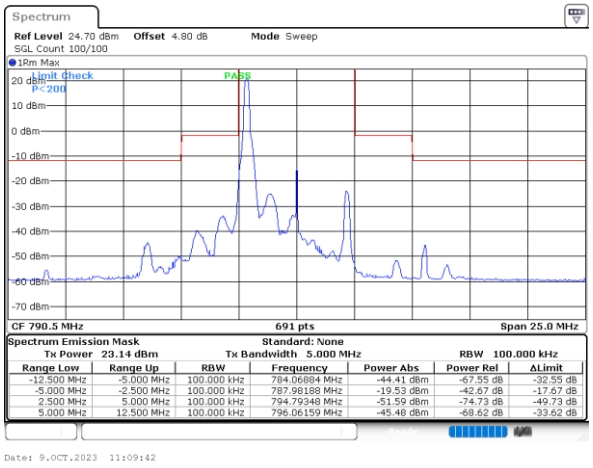


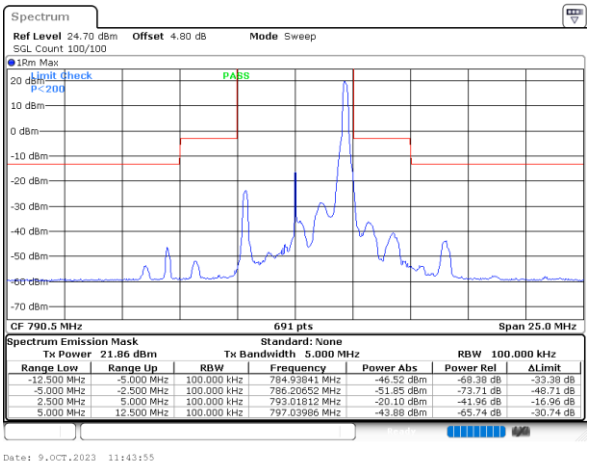
Lowest Channel / Full RB



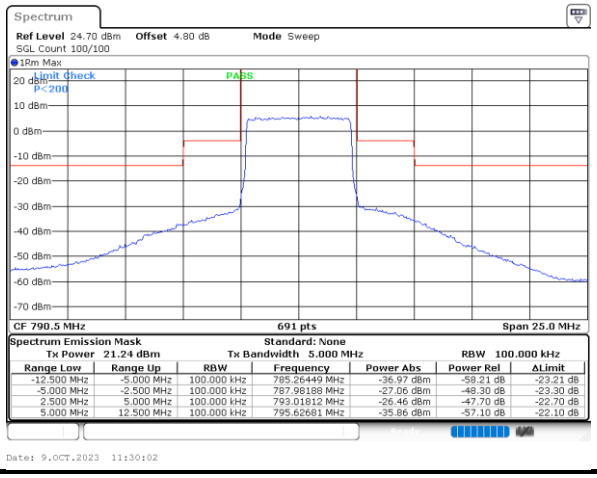
LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB



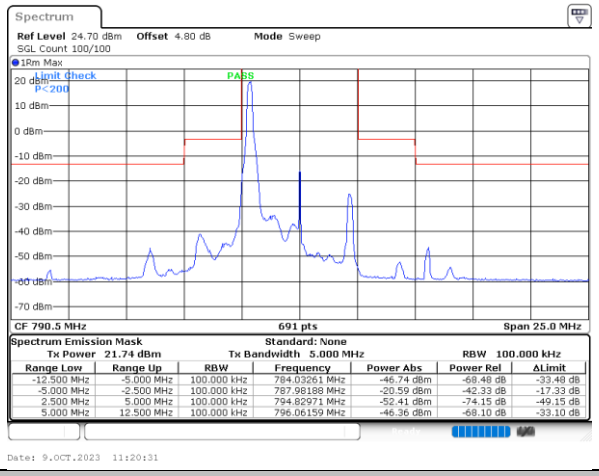


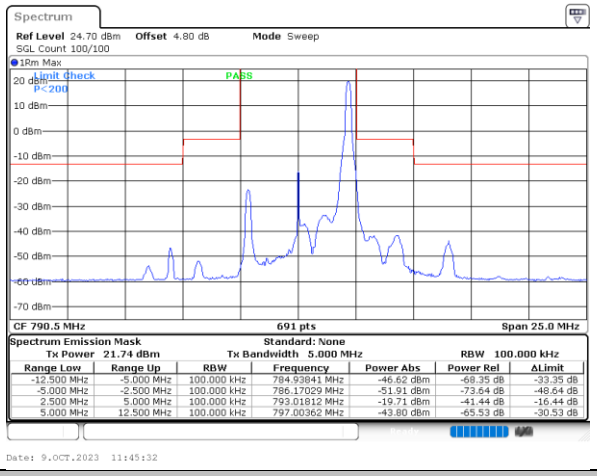
Lowest Channel / Full RB



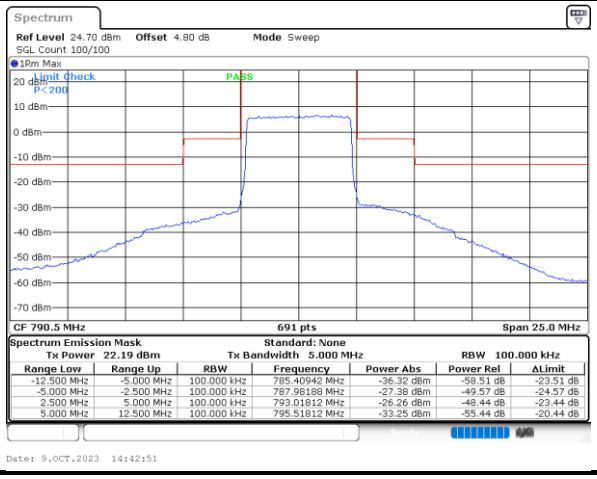
LTE Band 14 / 5MHz / 256QAM

Lowest Channel / 1RB



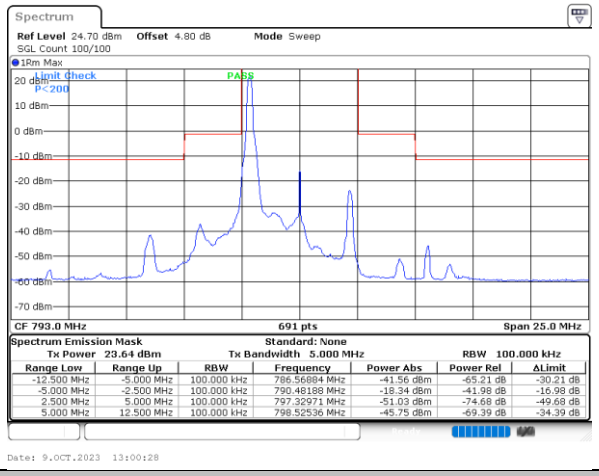


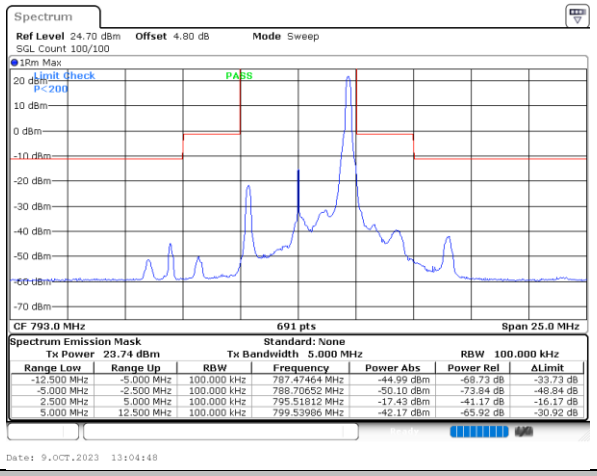
Lowest Channel / Full RB



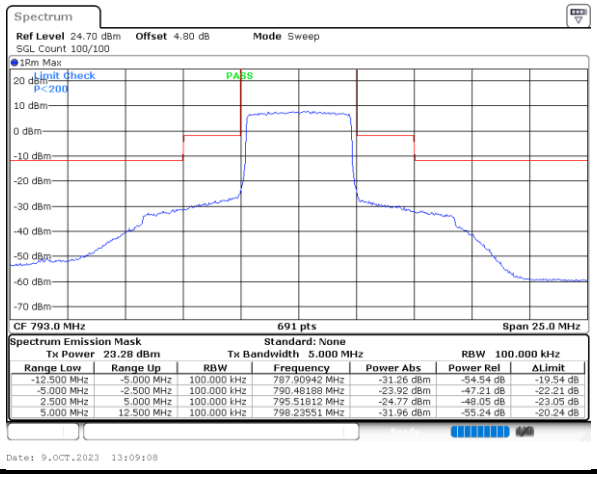
LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB



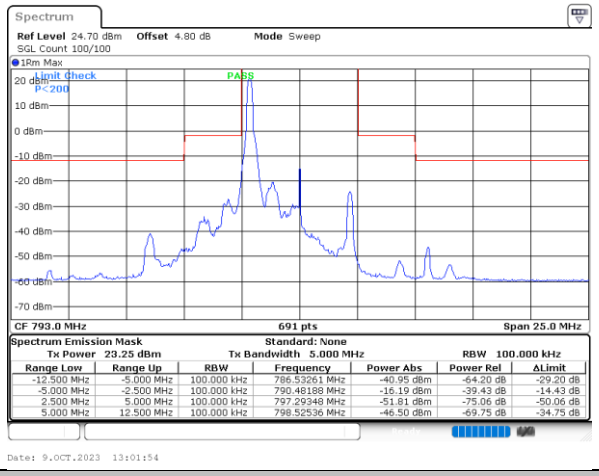


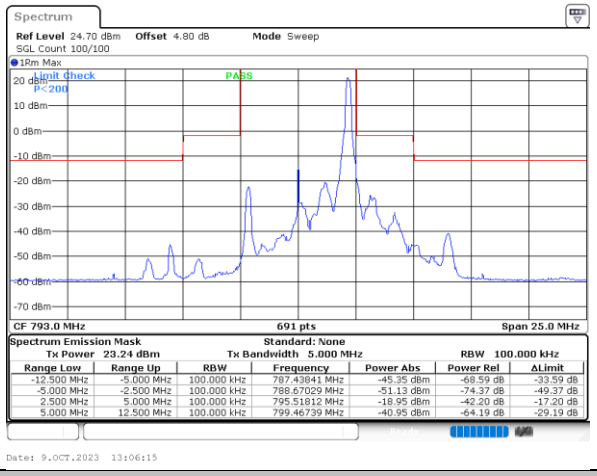
Middle Channel / Full RB



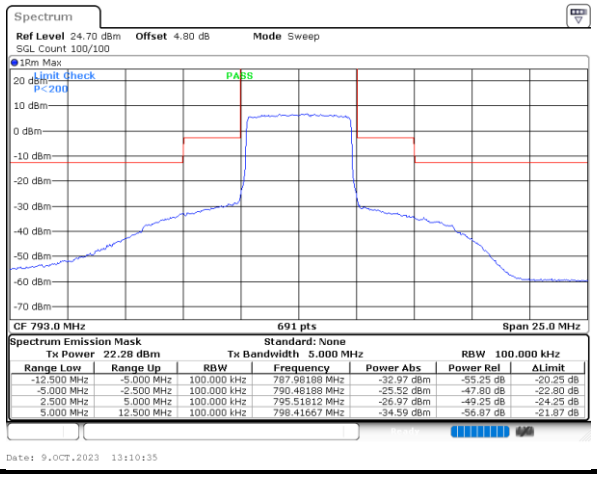
LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB



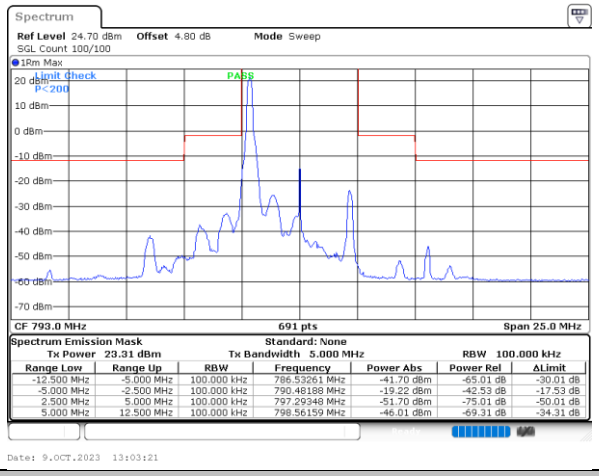


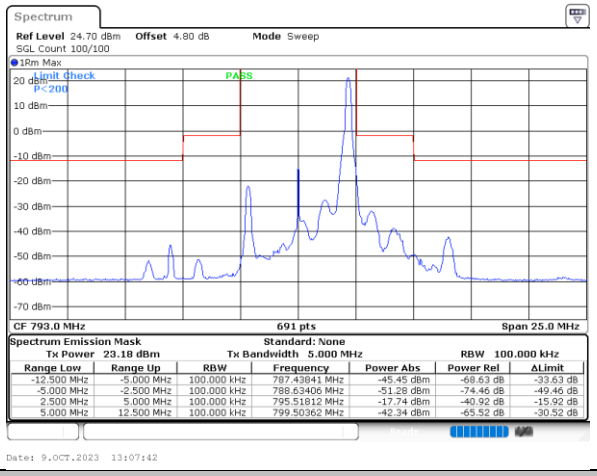
Middle Channel / Full RB



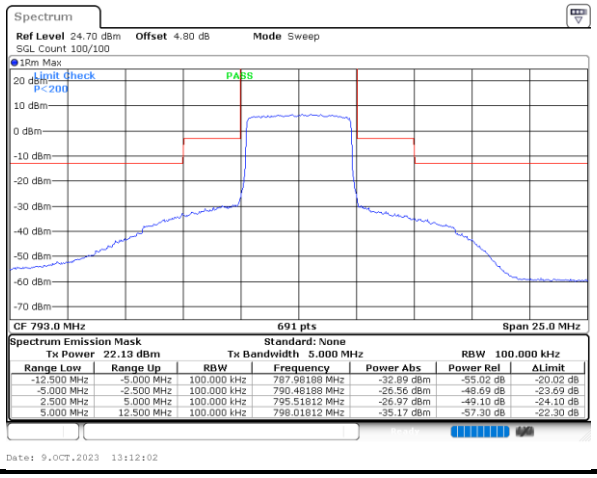
LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB



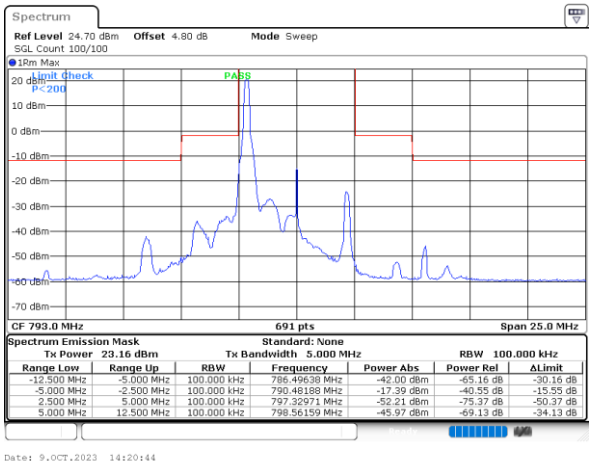


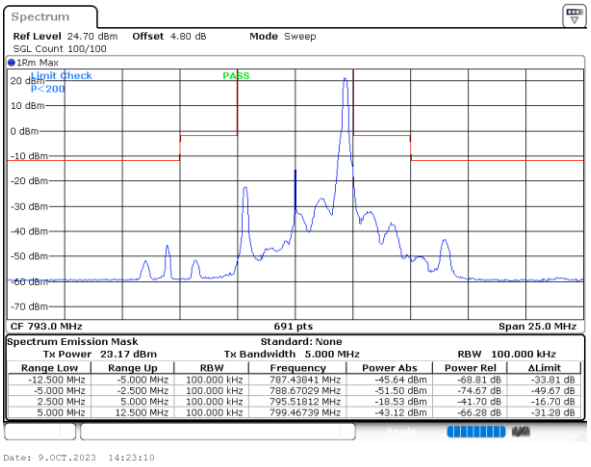
Middle Channel / Full RB



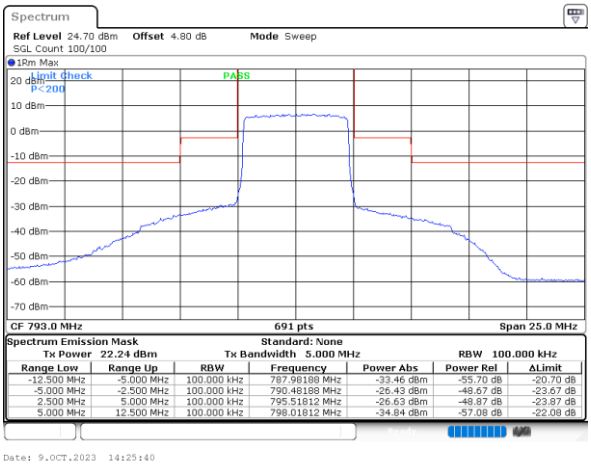
LTE Band 14 / 5MHz / 256QAM

Middle Channel / 1RB



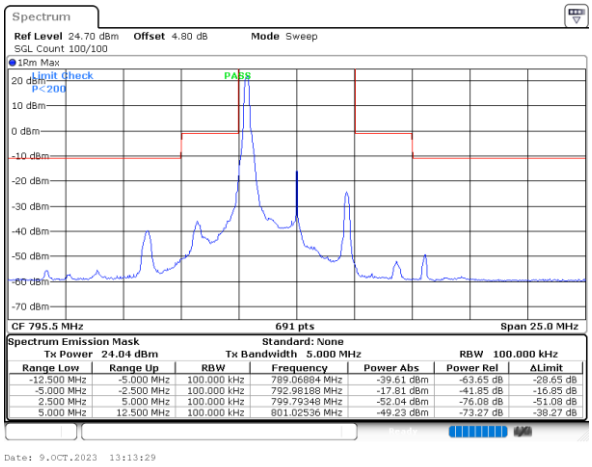


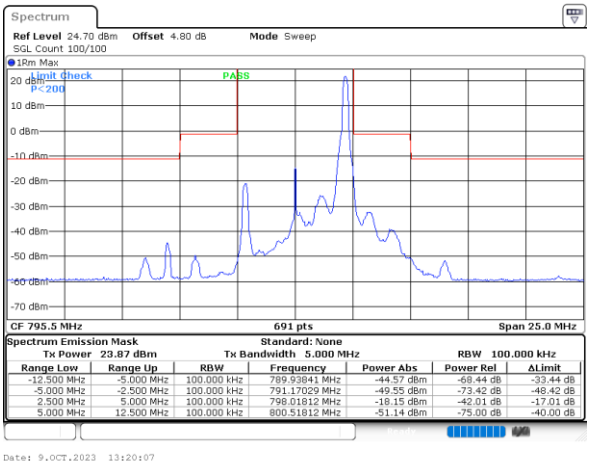
Middle Channel / Full RB



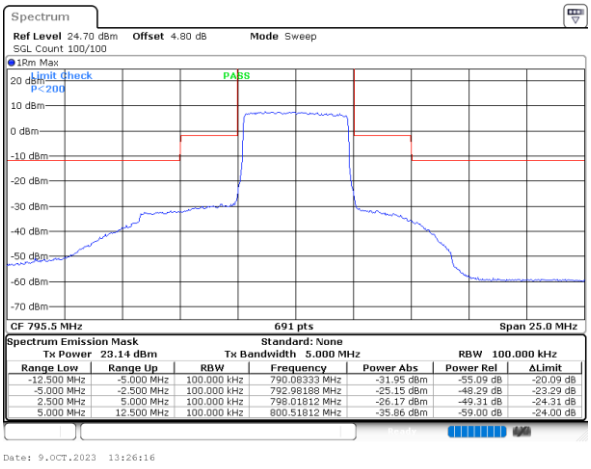
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



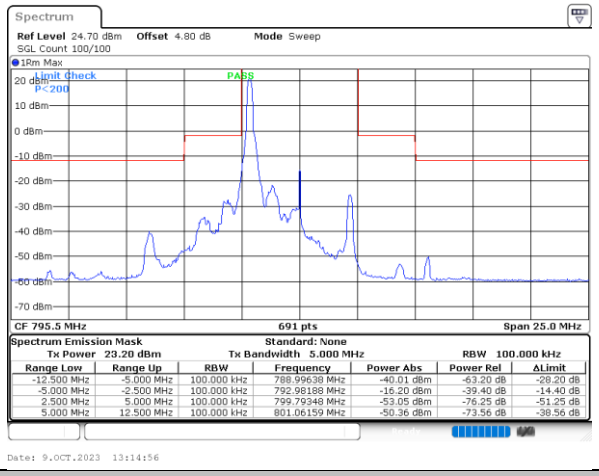


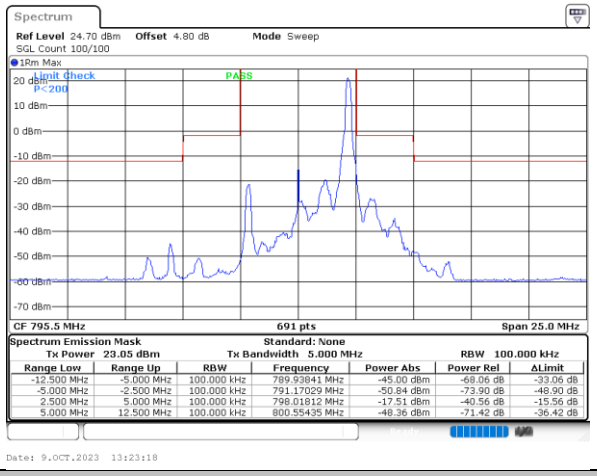
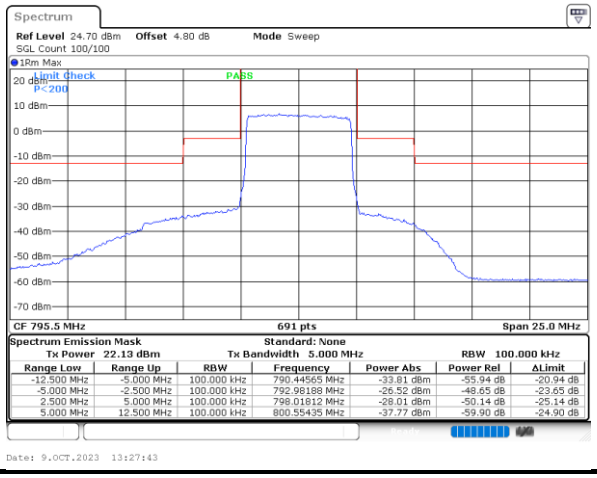
Highest Channel / Full RB



LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB





Highest Channel / Full RB