FCC RF Test Report

APPLICANT	:	VeriFone, Inc.
EQUIPMENT	:	Point of Sale Terminal
BRAND NAME	:	Verifone or VERIFONE or verifone
MODEL NAME	:	UX600-4G-A, UX600-T-A
FCC ID	:	B32UX6004GA
STANDARD	:	47 CFR Part 90(S)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)
TEST DATE(S)	:	Mar. 31, 2025 ~ Apr. 03, 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

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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
FG522406D	Rev. 01	Initial issue of report	May 23, 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 42.11 dB at 1632.00 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

VeriFone, Inc.
1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.2 Manufacturer

VeriFone, Inc.
1400 West Stanford Ranch Road Suite 150 Rocklin CA 95765 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Point of Sale Terminal
Brand Name	Verifone or VERIFONE or verifone
Model Name	UX600-4G-A, UX600-T-A
FCC ID	B32UX6004GA
SN Code	Conducted: E14K5BC06000028 Radiation: E14K5BC06000096
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two samples under test: Sample 1(UX600-4G-A) supports PSCR, Sample 2(UX600-T-A) doesn't support. According to the difference, we evaluate Sample 1 to perform full test, and Sample 2 to verify the worse cases of RSE which test results are shown in another report.

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	23.36 dBm
Antenna Gain	2.8 dBi
Type of Modulation	QPSK / 16QAM

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	
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	0.1786	1M09G7D	0.1442	1M09W7D
3	815.5 ~ 822.5	0.1824	2M71G7D	0.1377	2M72W7D
5	816.5 ~ 821.5	0.1995	4M49G7D	0.1327	4M49W7D
10	819.0	0.1824	9M01G7D	0.1393	8M99W7D
15	824	0.2168	13M4G7D	0.1355	13M3W7D

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.**
	03CH04-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.**
	TH01-SZ	CN1256	421272

Test data subcontracted: Conducted test cases in section 3.1~3.4&3.6 of this report.

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	210616

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

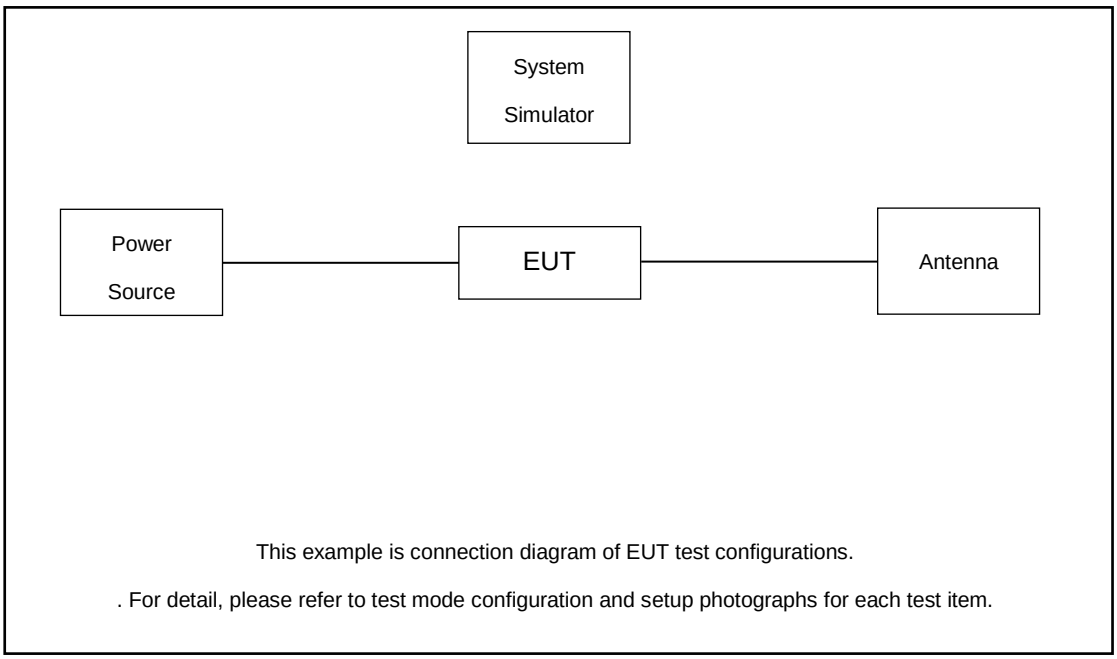
2.1 Test Mode

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. (Y 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
	26				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
	26				v	v	-	v	v	-	-	v		v		v	
Emission masks – Out of band emissions	26	v	v	v			-	v		-	-	v			v	v	v
	26				v	v	-	v		-	-	v				v	
Frequency Stability	26				v		-	v		-	-			v		v	
Radiated Spurious Emission	26			v			-	v		-	-	v			v	v	v
	26				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. 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.																

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	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 and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.0 + 10 = 14.0 (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.

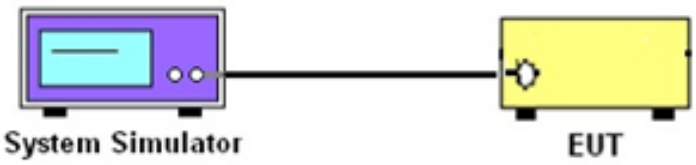
3.1.2 Measuring Instruments

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.

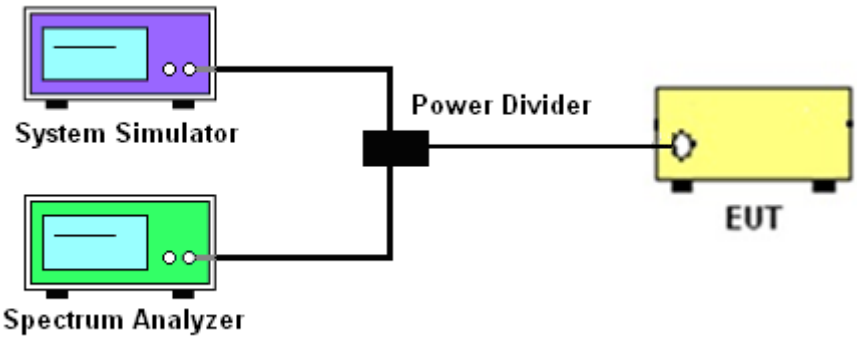
3.2.2 Measuring Instruments

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.

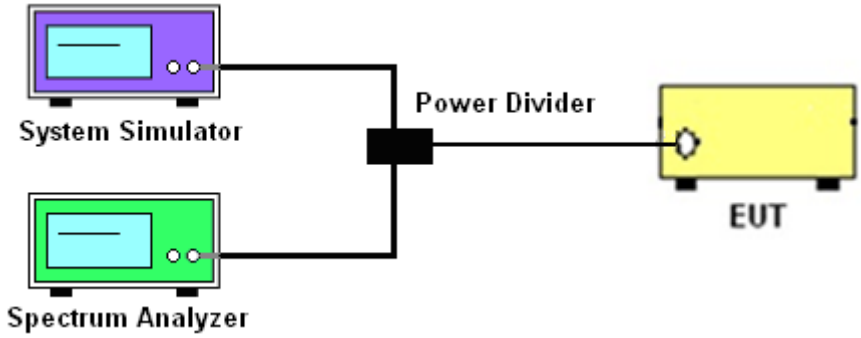
3.3.2 Measuring Instruments

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.

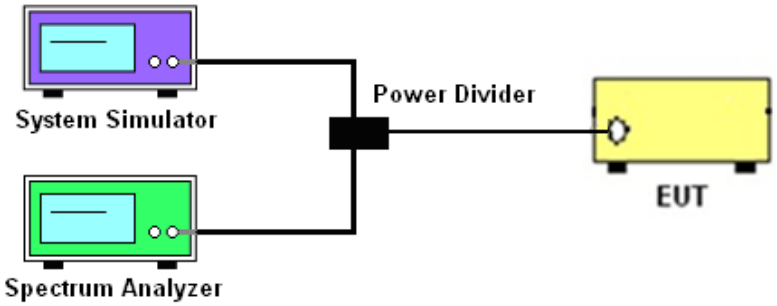
3.4.2 Measuring Instruments

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

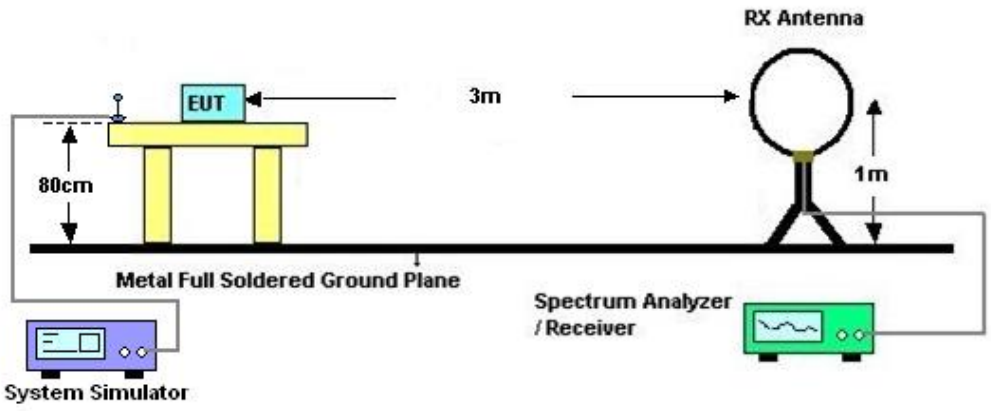
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

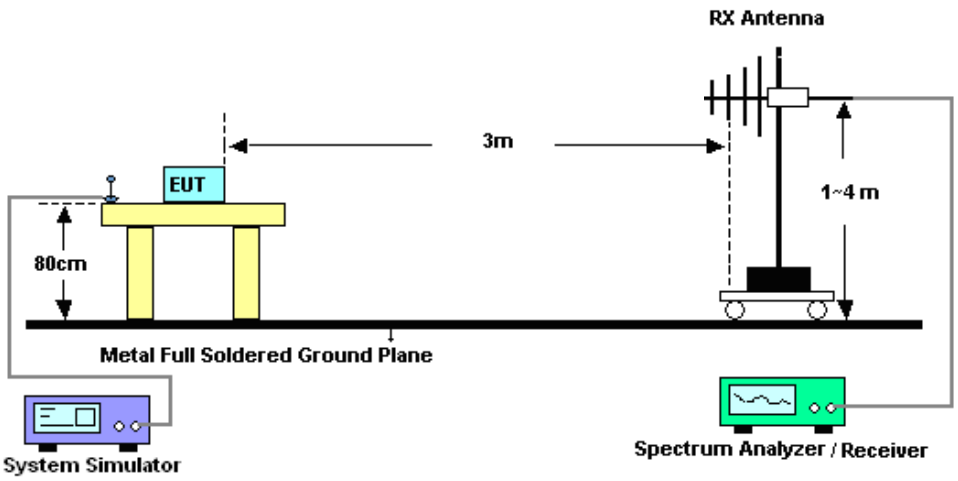
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position 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

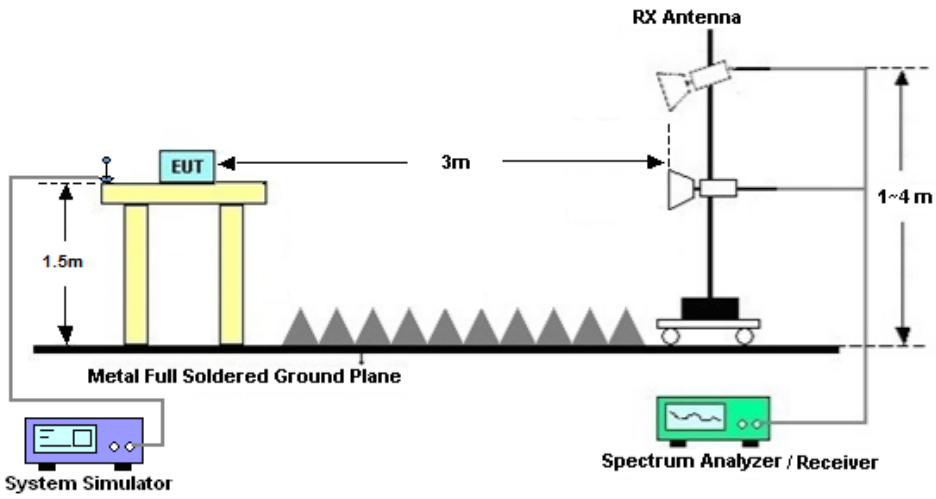
For radiated test from 30MHz



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.

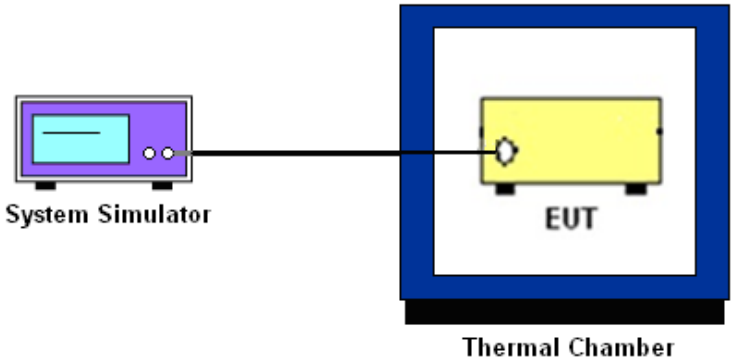
3.6.3 Test Procedures for Temperature Variation

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	101078	10Hz~40GHz	Apr. 03, 2024	Mar. 31, 2025	Apr. 02, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Mar. 31, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Mar. 31, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Apr. 03, 2025	Oct. 10, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Apr. 03, 2025	Sep. 07, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Nov. 23, 2024	Apr. 03, 2025	Nov. 22, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Apr. 03, 2025	Aug. 15, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Apr. 03, 2025	Jul. 02, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz-18Ghz	Oct. 09, 2024	Apr. 03, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18GA	060892	1Ghz-18Ghz	Oct. 09, 2024	Apr. 03, 2025	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 03, 2025	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 03, 2025	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 03, 2025	NCR	Radiation (03CH04-KS)

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	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Frequency Stability	±1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.83 dB

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

Appendix A. Test Results of Conducted Test

Test Engineer :	Nina Cheng	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power (Average power)

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		22.50	
15	QPSK	1	37		23.36	
15	QPSK	1	74		22.48	
15	QPSK	36	0		21.46	
15	QPSK	36	20		21.45	
15	QPSK	36	39		21.33	
15	QPSK	75	0		21.44	
15	16QAM	1	0		21.32	
15	16QAM	1	37		21.19	
15	16QAM	1	74		21.14	
15	16QAM	36	0		20.43	
15	16QAM	36	20		20.37	
15	16QAM	36	39		20.31	
15	16QAM	75	0		20.51	
Channel					26740	
Frequency (MHz)					819	
10	QPSK	1	0		22.59	
10	QPSK	1	25		22.61	
10	QPSK	1	49		22.56	
10	QPSK	25	0		21.44	
10	QPSK	25	12		21.42	
10	QPSK	25	25		21.43	
10	QPSK	50	0		21.40	
10	16QAM	1	0		21.29	
10	16QAM	1	25		21.44	
10	16QAM	1	49		21.28	
10	16QAM	25	0		20.53	
10	16QAM	25	12		20.39	
10	16QAM	25	25		20.33	
10	16QAM	50	0		20.38	
Channel				26715	26740	26765
Frequency (MHz)				816.5	819	821.5
5	QPSK	1	0	22.50	22.37	22.54

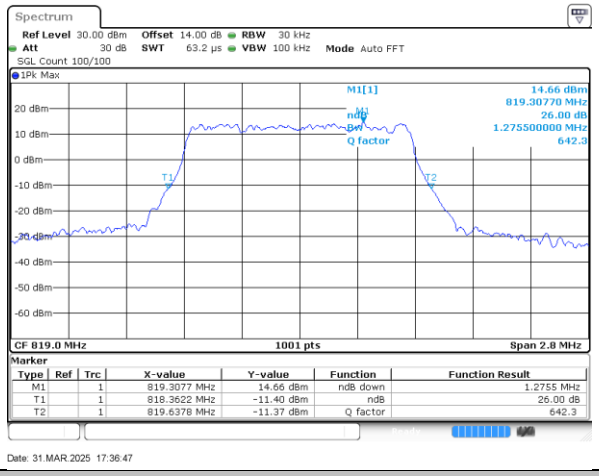
5	QPSK	1	12	23.00	22.87	22.96
5	QPSK	1	24	22.54	22.32	22.36
5	QPSK	12	0	21.48	21.36	21.41
5	QPSK	12	7	21.53	21.35	21.42
5	QPSK	12	13	21.49	21.33	21.46
5	QPSK	25	0	21.44	21.42	21.52
5	16QAM	1	0	21.02	20.95	21.10
5	16QAM	1	12	21.16	21.15	21.21
5	16QAM	1	24	21.21	21.17	21.23
5	16QAM	12	0	20.33	20.39	20.43
5	16QAM	12	7	20.46	20.43	20.49
5	16QAM	12	13	20.35	20.29	20.39
5	16QAM	25	0	20.36	20.32	20.45
Channel				26705	26740	26775
Frequency (MHz)				815.5	819	822.5
3	QPSK	1	0	22.54	22.44	22.46
3	QPSK	1	8	22.61	22.55	22.59
3	QPSK	1	14	22.51	22.47	22.53
3	QPSK	8	0	21.40	21.47	21.42
3	QPSK	8	4	21.33	21.41	21.46
3	QPSK	8	7	21.38	21.44	21.52
3	QPSK	15	0	21.29	21.33	21.43
3	16QAM	1	0	21.39	21.24	21.29
3	16QAM	1	8	21.26	21.19	21.29
3	16QAM	1	14	21.14	21.04	21.11
3	16QAM	8	0	20.59	20.47	20.56
3	16QAM	8	4	20.62	20.44	20.59
3	16QAM	8	7	20.51	20.40	20.53
3	16QAM	15	0	20.41	20.37	20.44
Channel				26697	26740	26783
Frequency (MHz)				814.7	819	823.3
1.4	QPSK	1	0	22.51	22.43	22.49
1.4	QPSK	1	3	22.52	22.46	22.44
1.4	QPSK	1	5	22.44	22.31	22.37
1.4	QPSK	3	0	22.43	22.31	22.42
1.4	QPSK	3	1	22.36	22.28	22.37
1.4	QPSK	3	3	22.42	22.30	22.38
1.4	QPSK	6	0	21.15	21.20	21.35
1.4	16QAM	1	0	21.53	21.40	21.15
1.4	16QAM	1	3	21.26	21.19	21.47
1.4	16QAM	1	5	21.47	21.33	21.39
1.4	16QAM	3	0	21.59	21.40	21.42
1.4	16QAM	3	1	21.25	21.38	21.44
1.4	16QAM	3	3	21.22	21.34	21.46
1.4	16QAM	6	0	20.25	20.20	20.32

26dB Bandwidth

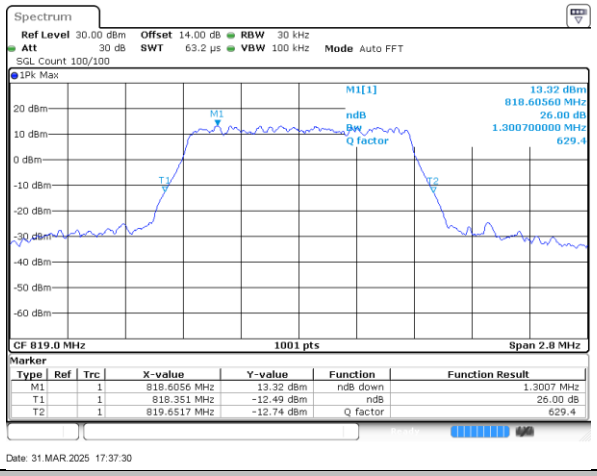
Mode	LTE Band 26 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.30	3.00	3.00	4.92	4.92	9.75	9.91	14.27	14.54	-	-

LTE Band 26

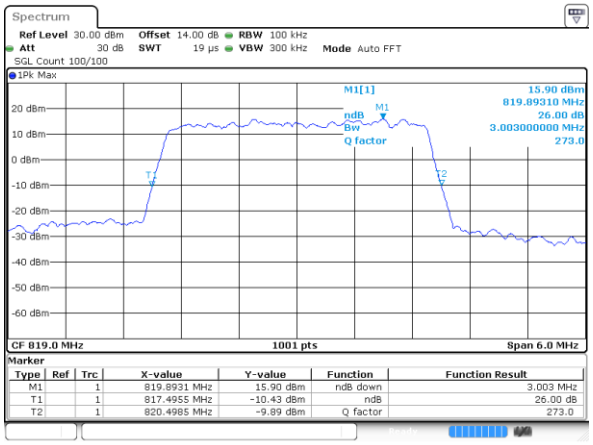
Middle Channel / 1.4MHz / QPSK



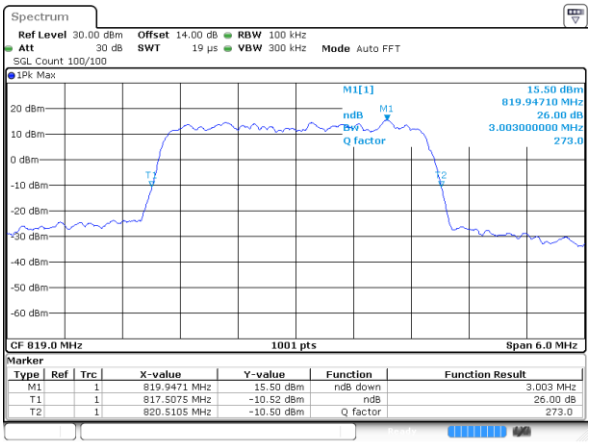
Middle Channel / 1.4MHz / 16QAM



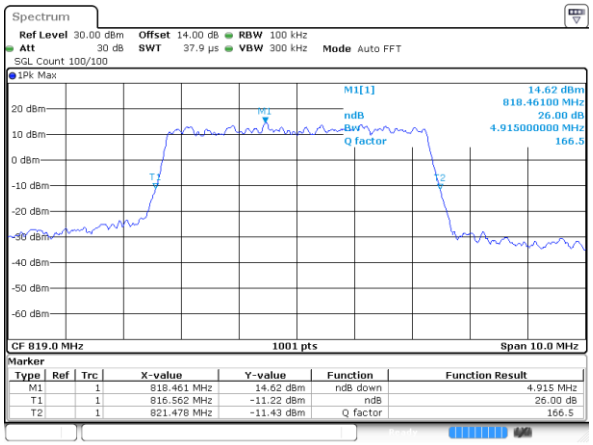
Middle Channel / 3MHz / QPSK



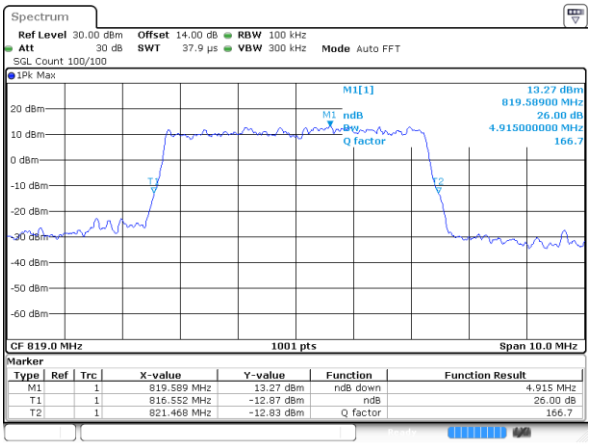
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK

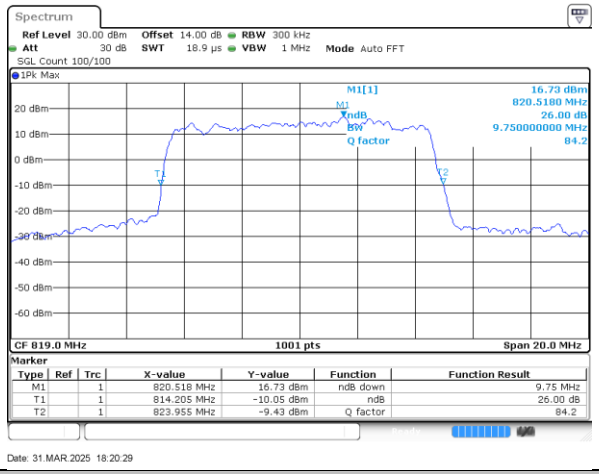


Middle Channel / 5MHz / 16QAM

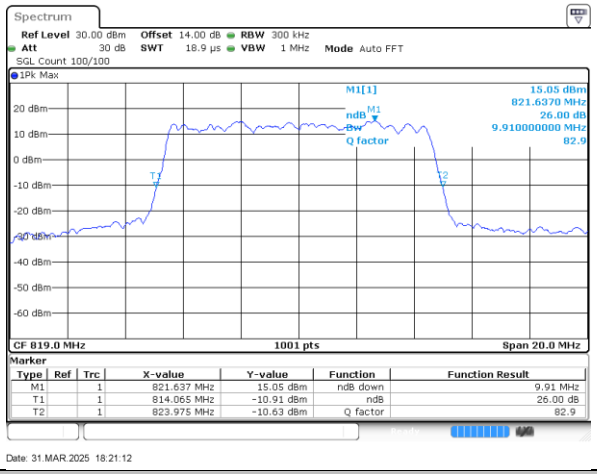


LTE Band 26

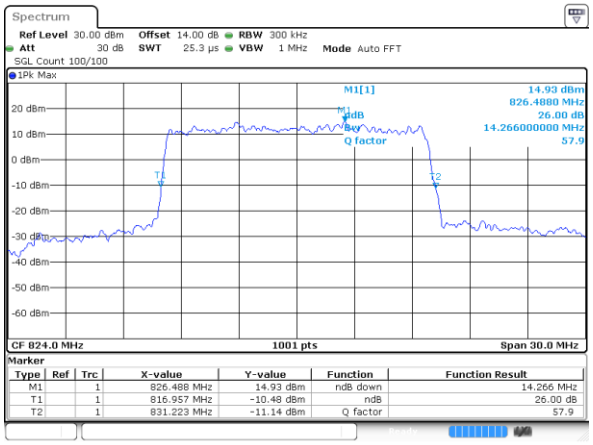
Middle Channel / 10MHz / QPSK



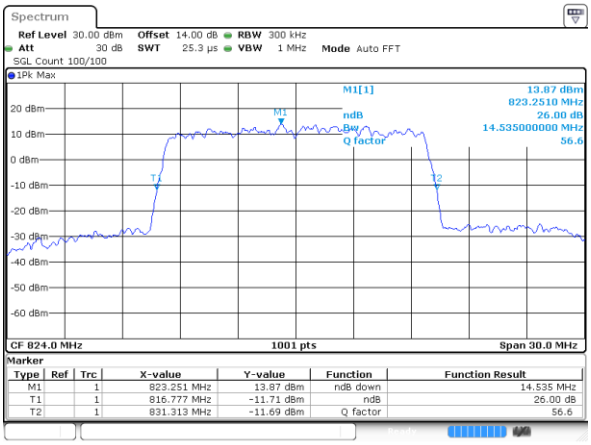
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

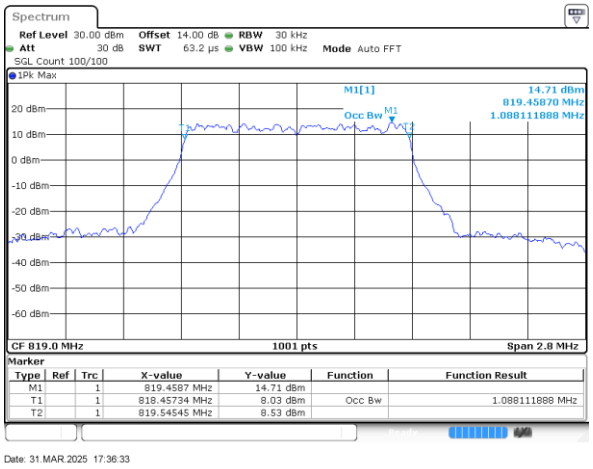


Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.71	2.72	4.49	4.49	9.01	8.99	13.43	13.34	-	-

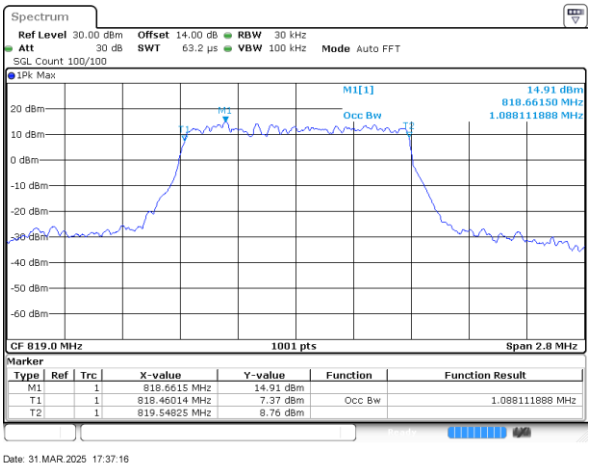
LTE Band 26

Middle Channel / 1.4MHz / QPSK



Date: 31.MAR.2025 17:36:33

Middle Channel / 1.4MHz / 16QAM



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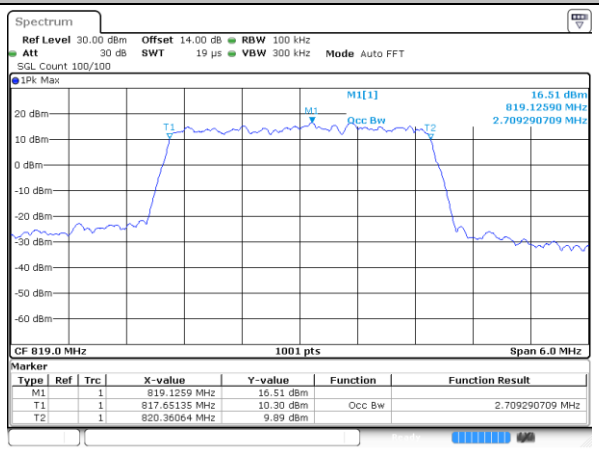
Middle Channel / 3MHz / QPSK



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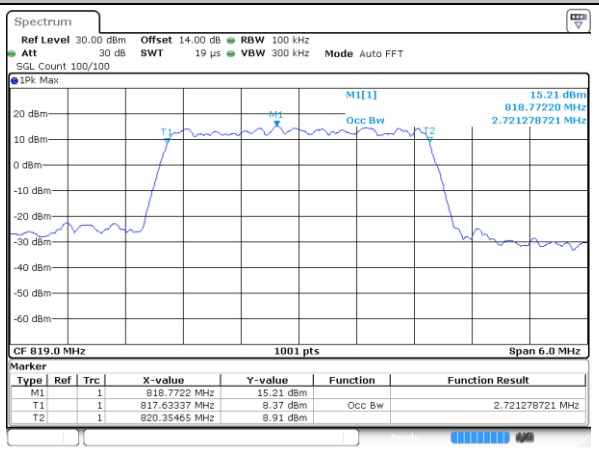
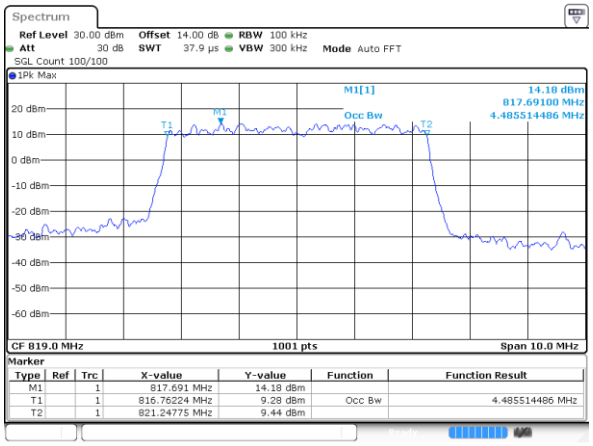
Middle Channel / 3MHz / 16QAM



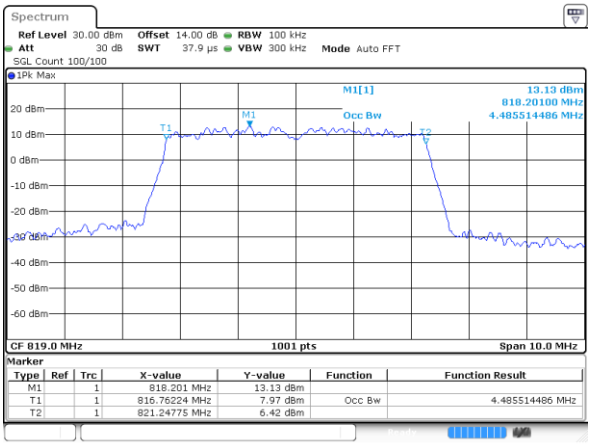
Date: 31.MAR.2025 17:51:38

Middle Channel / 5MHz / QPSK



Date: 31.MAR.2025 18:07:06

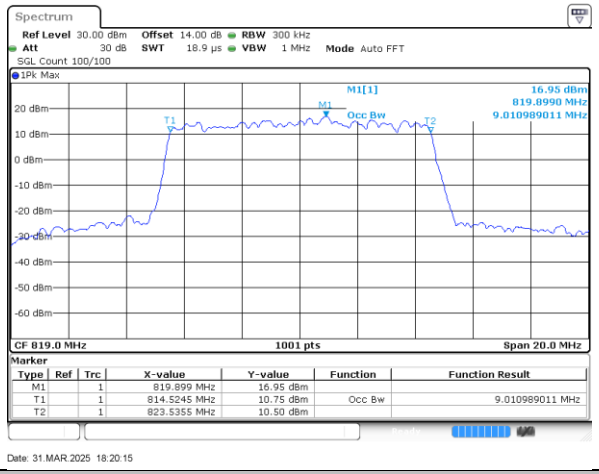
Middle Channel / 5MHz / 16QAM



Date: 31.MAR.2025 18:07:49

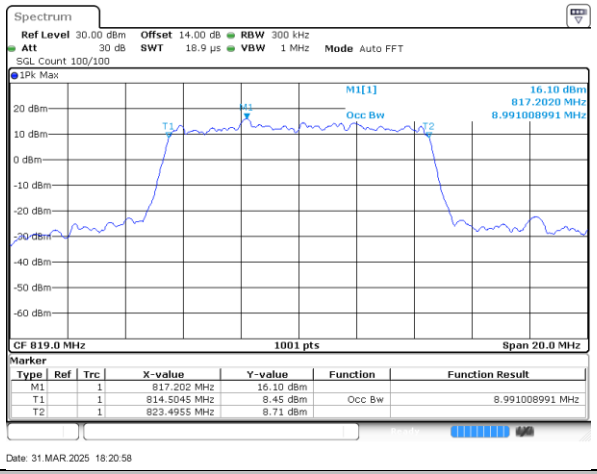
LTE Band 26

Middle Channel / 10MHz / QPSK



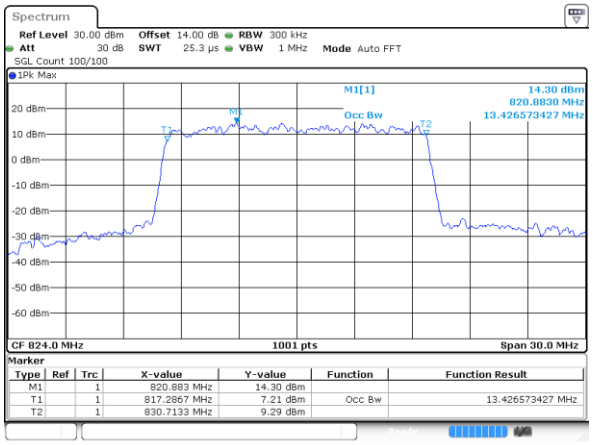
Date: 31.MAR.2025 18:20:15

Middle Channel / 10MHz / 16QAM



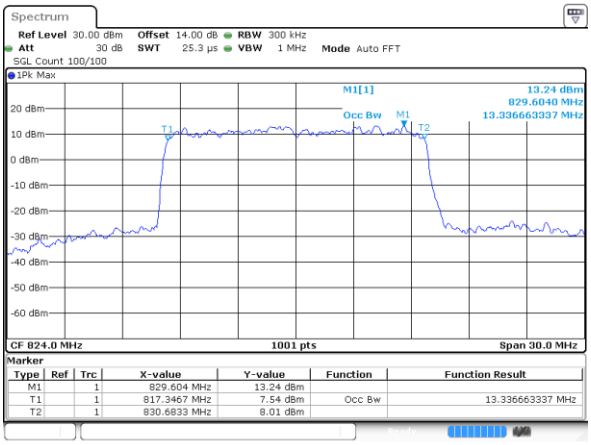
Date: 31.MAR.2025 18:20:58

Middle Channel / 15MHz / QPSK



Date: 31.MAR.2025 18:24:06

Middle Channel / 15MHz / 16QAM

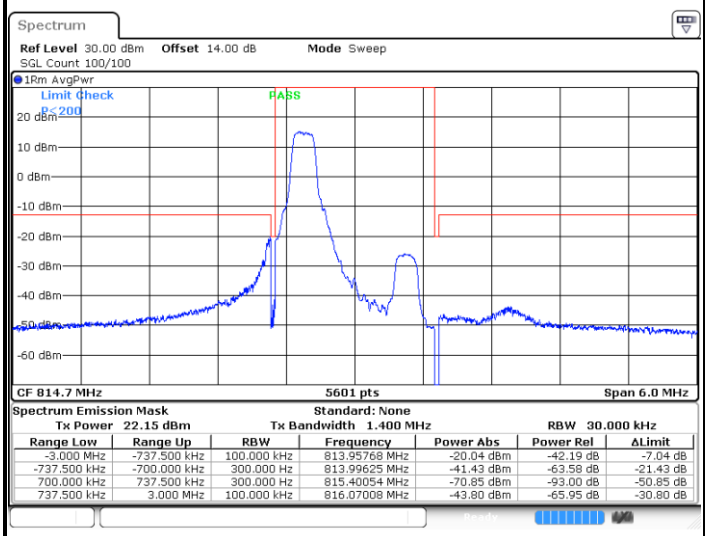


Date: 31.MAR.2025 18:25:03

Emission masks – In-band emissions

LTE Band 26 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

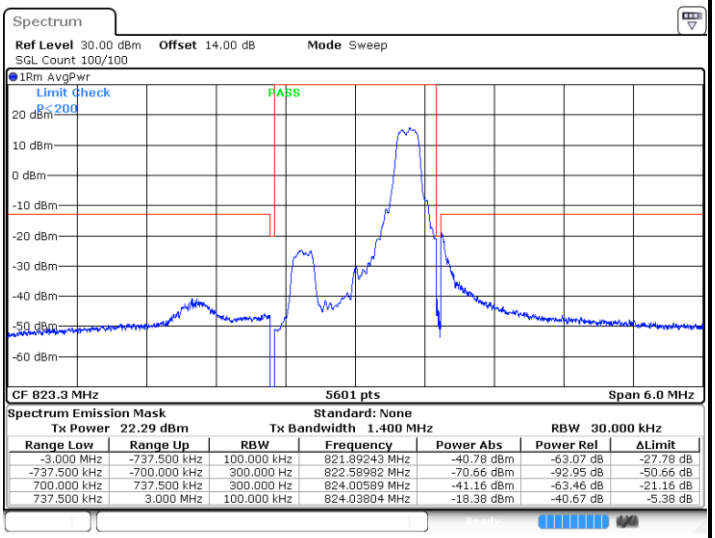


Spectrum Emission Mask Standard: None
Tx Power 22.15 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95768 MHz	-20.04 dBm	-42.19 dB	-7.04 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99625 MHz	-41.43 dBm	-63.58 dB	-21.43 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40054 MHz	-70.85 dBm	-93.00 dB	-50.85 dB
737.500 kHz	3.000 MHz	100.000 kHz	816.07008 MHz	-43.80 dBm	-65.95 dB	-30.80 dB

Date: 31.MAR.2025 17:29:52

Highest Band Edge / 1RB

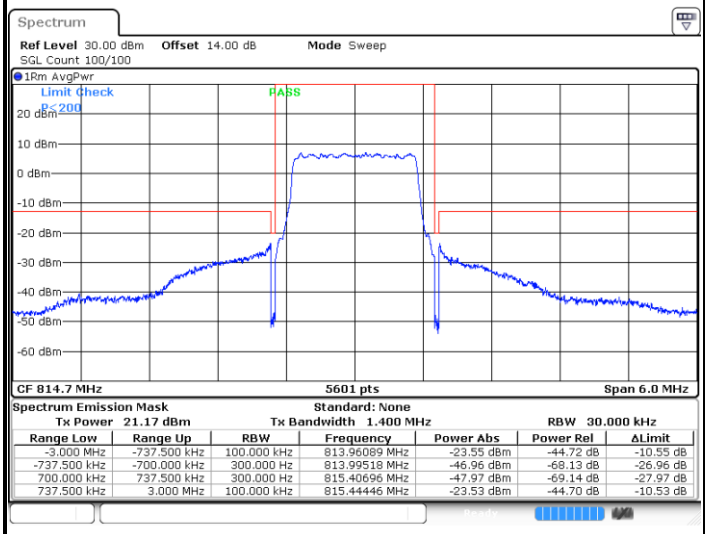


Spectrum Emission Mask Standard: None
Tx Power 22.29 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	821.89243 MHz	-40.78 dBm	-63.07 dB	-27.78 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.58982 MHz	-70.66 dBm	-92.95 dB	-50.66 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00589 MHz	-41.16 dBm	-63.46 dB	-21.16 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.03804 MHz	-18.38 dBm	-40.67 dB	-5.38 dB

Date: 31.MAR.2025 17:38:15

Lowest Band Edge / Full RB

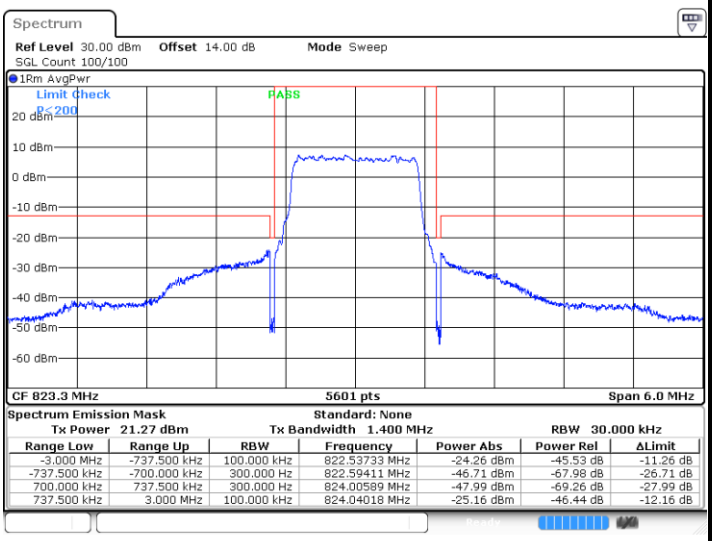


Spectrum Emission Mask Standard: None
Tx Power 21.17 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.96089 MHz	-23.55 dBm	-44.72 dB	-10.55 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99518 MHz	-46.96 dBm	-68.13 dB	-26.96 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40696 MHz	-47.97 dBm	-69.14 dB	-27.97 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.44446 MHz	-23.53 dBm	-44.70 dB	-10.53 dB

Date: 31.MAR.2025 17:33:36

Highest Band Edge / Full RB



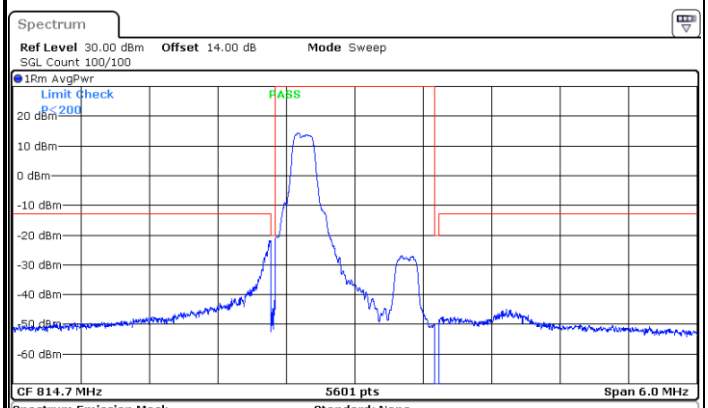
Spectrum Emission Mask Standard: None
Tx Power 21.27 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.53733 MHz	-24.26 dBm	-45.53 dB	-11.26 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59411 MHz	-46.71 dBm	-67.98 dB	-26.71 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00589 MHz	-47.99 dBm	-69.26 dB	-27.99 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04018 MHz	-25.16 dBm	-46.44 dB	-12.16 dB

Date: 31.MAR.2025 17:42:05

LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

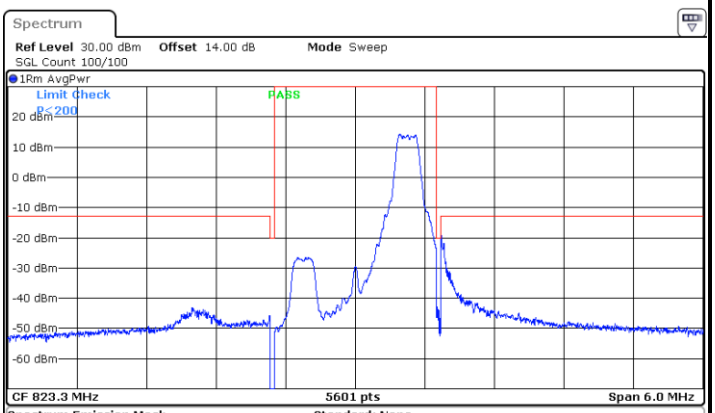


Spectrum Emission Mask Standard: None
Tx Power 21.14 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.96196 MHz	-21.92 dBm	-43.06 dB	-8.92 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99411 MHz	-42.12 dBm	-63.26 dB	-22.12 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40161 MHz	-71.19 dBm	-92.33 dB	-51.19 dB
737.500 kHz	3.000 MHz	100.000 kHz	816.02830 MHz	-45.03 dBm	-66.17 dB	-32.03 dB

Date: 31.MAR.2025 17:30:37

Highest Band Edge / 1 RB

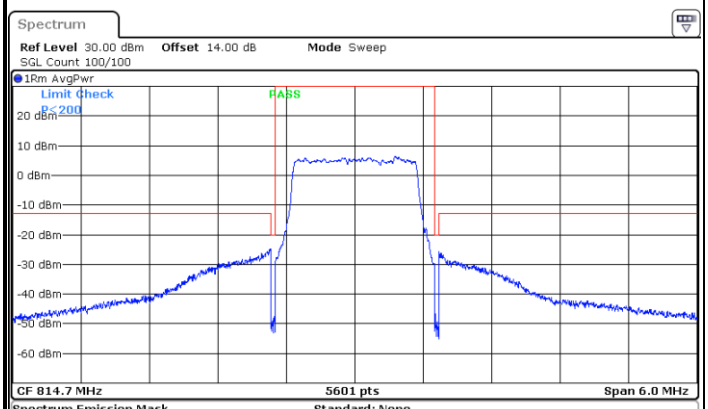


Spectrum Emission Mask Standard: None
Tx Power 21.16 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	821.89350 MHz	-43.19 dBm	-64.36 dB	-30.19 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59518 MHz	-71.04 dBm	-92.20 dB	-51.04 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00482 MHz	-43.03 dBm	-64.19 dB	-23.03 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.04125 MHz	-19.14 dBm	-40.30 dB	-6.14 dB

Date: 31.MAR.2025 17:39:00

Lowest Band Edge / Full RB

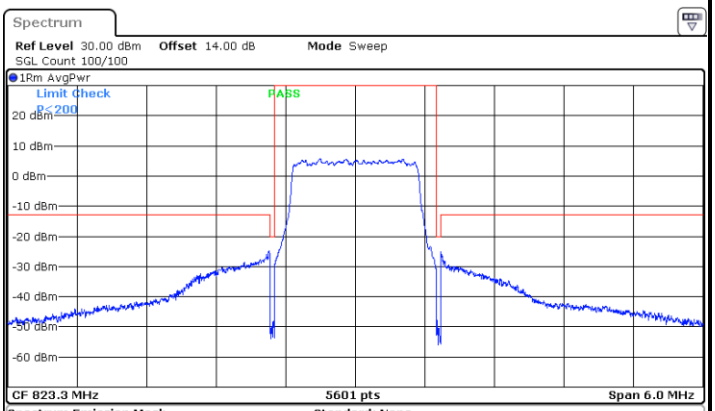


Spectrum Emission Mask Standard: None
Tx Power 20.26 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	813.95875 MHz	-24.75 dBm	-45.01 dB	-11.75 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	813.99518 MHz	-47.49 dBm	-67.76 dB	-27.49 dB
700.000 kHz	737.500 kHz	300.000 Hz	815.40696 MHz	-46.55 dBm	-66.82 dB	-26.55 dB
737.500 kHz	3.000 MHz	100.000 kHz	815.43804 MHz	-25.63 dBm	-45.89 dB	-12.63 dB

Date: 31.MAR.2025 17:32:52

Highest Band Edge / Full RB



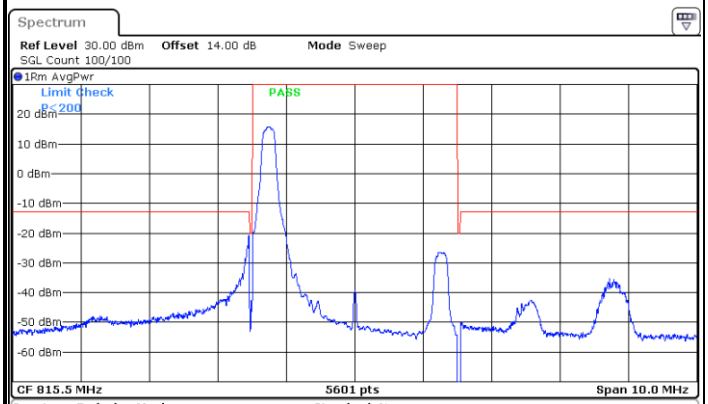
Spectrum Emission Mask Standard: None
Tx Power 19.77 dBm Tx Bandwidth 1.400 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-3.000 MHz	-737.500 kHz	100.000 kHz	822.55232 MHz	-24.91 dBm	-44.68 dB	-11.91 dB
-737.500 kHz	-700.000 kHz	300.000 Hz	822.59518 MHz	-48.10 dBm	-67.87 dB	-28.10 dB
700.000 kHz	737.500 kHz	300.000 Hz	824.00696 MHz	-47.77 dBm	-67.54 dB	-27.77 dB
737.500 kHz	3.000 MHz	100.000 kHz	824.03804 MHz	-25.09 dBm	-44.86 dB	-12.09 dB

Date: 31.MAR.2025 17:41:20

LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB

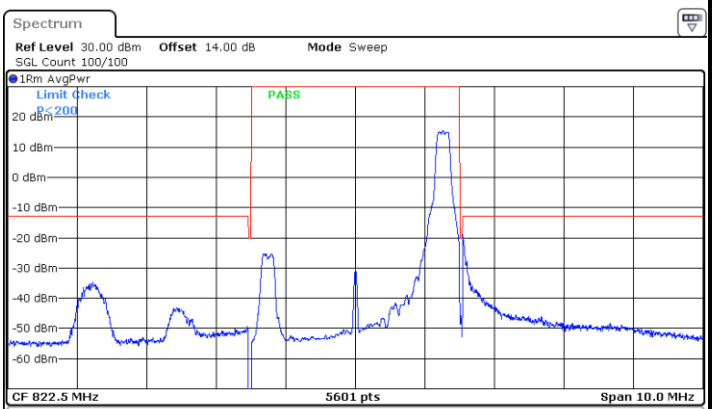


Spectrum Emission Mask Standard: None
Tx Power 22.32 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.95089 MHz	-20.80 dBm	-43.13 dB	-7.80 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.98482 MHz	-42.71 dBm	-65.03 dB	-22.71 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00089 MHz	-73.81 dBm	-96.13 dB	-53.81 dB
1.538 MHz	5.000 MHz	100.000 kHz	819.22232 MHz	-35.26 dBm	-57.58 dB	-22.26 dB

Date: 31.MAR.2025 17:44:09

Highest Band Edge / 1RB

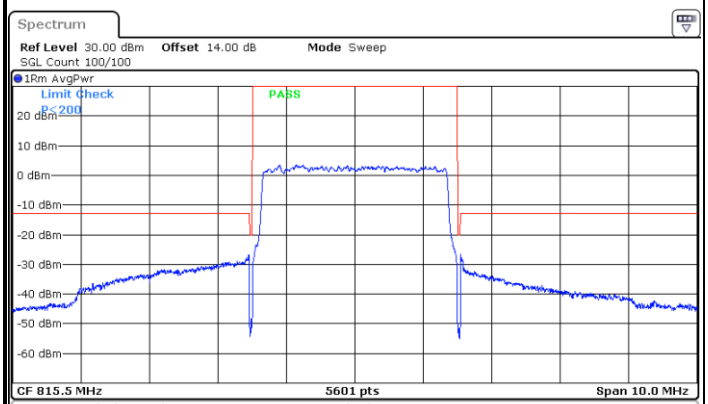


Spectrum Emission Mask Standard: None
Tx Power 22.19 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	818.72946 MHz	-34.82 dBm	-57.00 dB	-21.82 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99732 MHz	-74.18 dBm	-96.36 dB	-54.18 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00089 MHz	-41.68 dBm	-63.86 dB	-21.68 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.03839 MHz	-19.10 dBm	-41.28 dB	-6.10 dB

Date: 31.MAR.2025 17:52:36

Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.42 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.94911 MHz	-26.83 dBm	-48.25 dB	-13.83 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-48.24 dBm	-69.66 dB	-28.24 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00089 MHz	-49.87 dBm	-71.29 dB	-29.87 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.04375 MHz	-26.50 dBm	-47.91 dB	-13.50 dB

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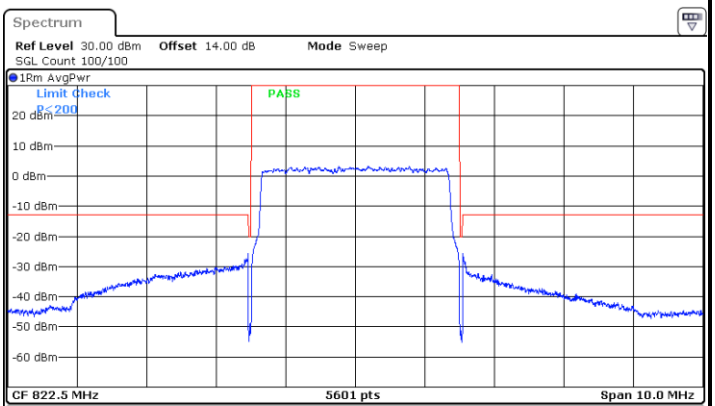
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.30 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.96161 MHz	-25.75 dBm	-47.04 dB	-12.75 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99911 MHz	-48.77 dBm	-70.07 dB	-28.77 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.01161 MHz	-49.37 dBm	-70.66 dB	-29.37 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.04554 MHz	-25.71 dBm	-47.00 dB	-12.71 dB

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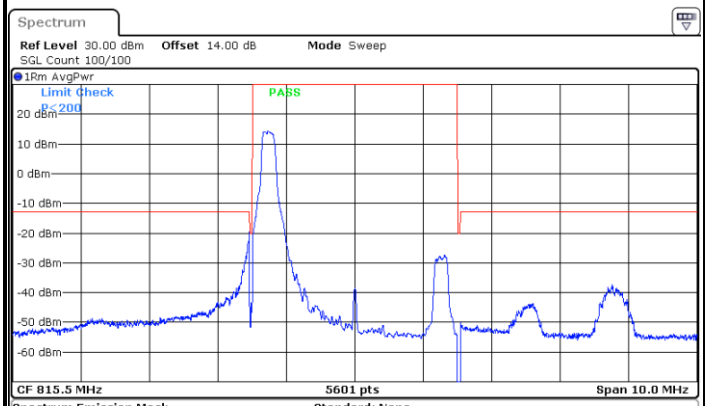
LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

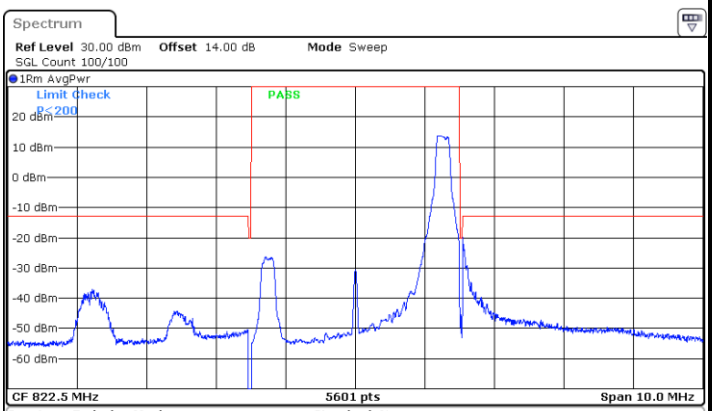


Spectrum Emission Mask Standard: None
Tx Power 21.06 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.95625 MHz	-19.59 dBm	-40.65 dB	-6.59 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99911 MHz	-43.38 dBm	-64.44 dB	-23.38 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.01518 MHz	-74.87 dBm	-95.93 dB	-54.87 dB
1.538 MHz	5.000 MHz	100.000 kHz	819.25982 MHz	-37.42 dBm	-58.47 dB	-24.42 dB

Date: 31.MAR.2025 17:44:54

Highest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 20.84 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	818.71161 MHz	-37.10 dBm	-57.94 dB	-24.10 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.98661 MHz	-74.88 dBm	-95.73 dB	-54.88 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00268 MHz	-43.24 dBm	-64.08 dB	-23.24 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.03839 MHz	-19.97 dBm	-40.81 dB	-6.97 dB

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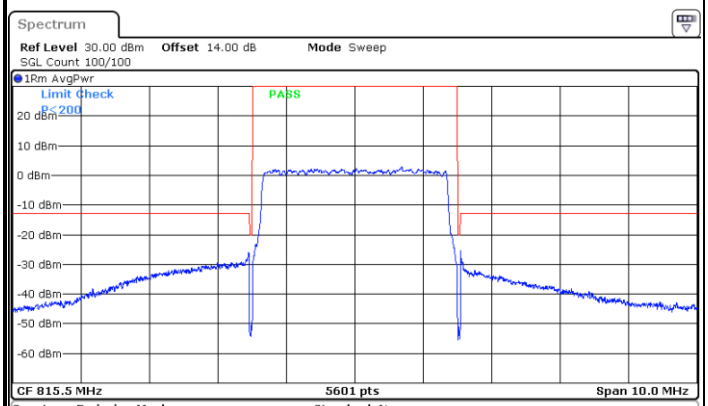
Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 20.47 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	813.94732 MHz	-26.02 dBm	-46.49 dB	-13.02 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	813.99732 MHz	-48.98 dBm	-69.45 dB	-28.98 dB
1.500 MHz	1.538 MHz	300.000 Hz	817.00089 MHz	-48.00 dBm	-68.47 dB	-28.00 dB
1.538 MHz	5.000 MHz	100.000 kHz	817.04375 MHz	-25.44 dBm	-45.92 dB	-12.44 dB

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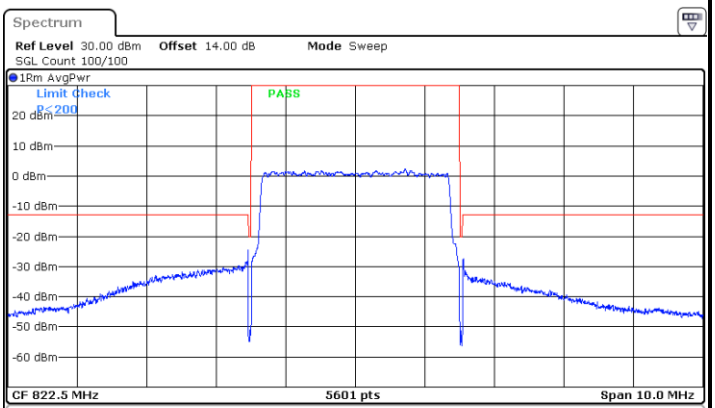
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 19.99 dBm Tx Bandwidth 3.000 MHz RBW 30.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-5.000 MHz	-1.538 MHz	100.000 kHz	820.96161 MHz	-24.65 dBm	-44.63 dB	-11.65 dB
-1.538 MHz	-1.500 MHz	300.000 Hz	820.99732 MHz	-49.61 dBm	-69.60 dB	-29.61 dB
1.500 MHz	1.538 MHz	300.000 Hz	824.00089 MHz	-48.49 dBm	-68.48 dB	-28.49 dB
1.538 MHz	5.000 MHz	100.000 kHz	824.05268 MHz	-27.39 dBm	-47.38 dB	-14.39 dB

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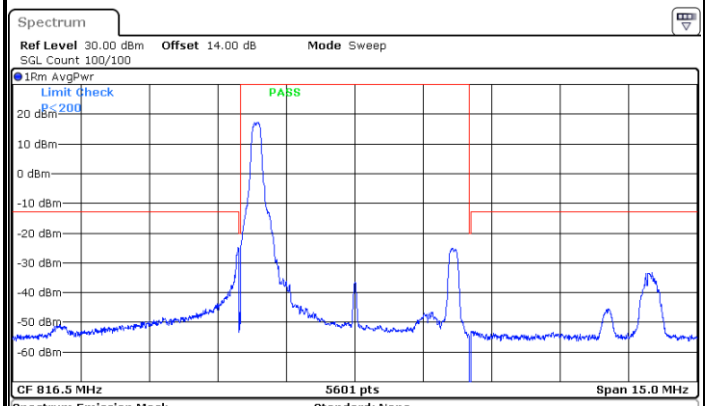
LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1RB



Spectrum Emission Mask Standard: None
Tx Power 21.86 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.94508 MHz	-24.74 dBm	-46.61 dB	-11.74 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99866 MHz	-44.53 dBm	-66.39 dB	-24.53 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00402 MHz	-77.33 dBm	-99.19 dB	-57.33 dB
2.538 MHz	7.500 MHz	100.000 kHz	823.00991 MHz	-33.15 dBm	-55.01 dB	-20.15 dB

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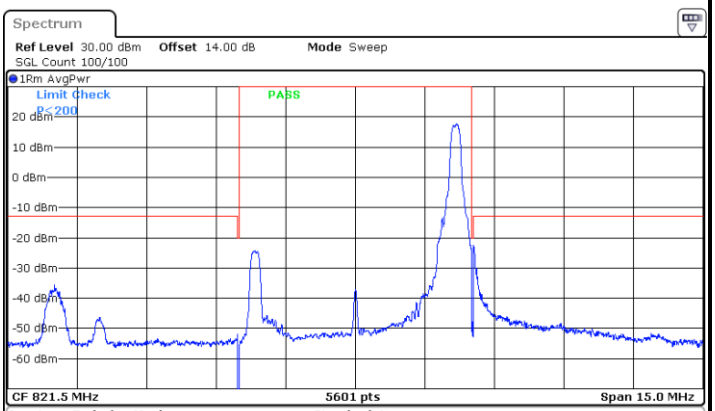
Highest Band Edge / 1RB



Spectrum Emission Mask Standard: None
Tx Power 22.01 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	815.01152 MHz	-35.64 dBm	-57.65 dB	-22.64 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99866 MHz	-77.26 dBm	-99.27 dB	-57.26 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-45.05 dBm	-67.07 dB	-25.05 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-22.39 dBm	-44.40 dB	-9.39 dB

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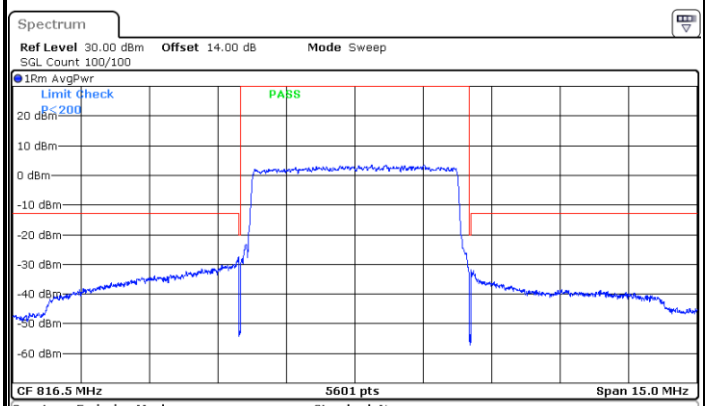
Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.35 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.96116 MHz	-27.31 dBm	-48.67 dB	-14.31 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.98795 MHz	-51.76 dBm	-73.12 dB	-31.76 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-53.11 dBm	-74.46 dB	-33.11 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.04956 MHz	-31.94 dBm	-53.30 dB	-18.94 dB

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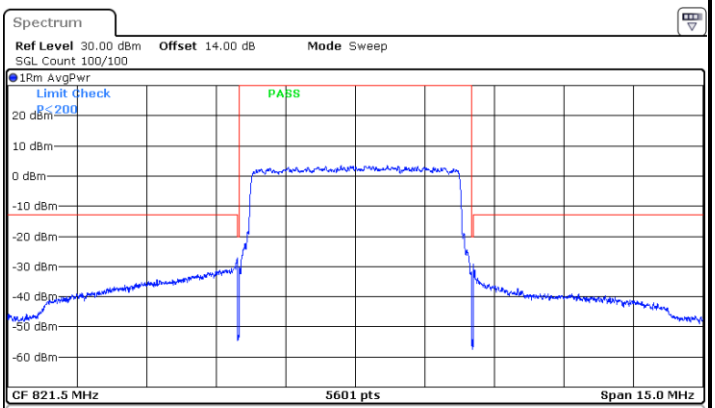
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 21.30 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.95580 MHz	-27.27 dBm	-48.57 dB	-14.27 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.98795 MHz	-52.07 dBm	-73.36 dB	-32.07 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-53.45 dBm	-74.74 dB	-33.45 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-29.09 dBm	-50.38 dB	-16.09 dB

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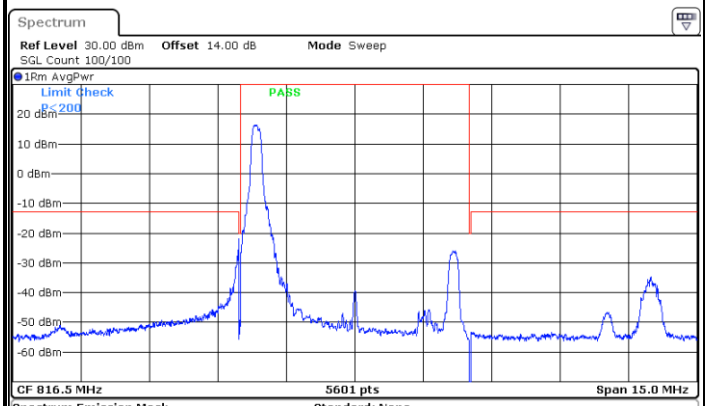
LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 20.82 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.95848 MHz	-22.04 dBm	-42.85 dB	-9.04 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.98795 MHz	-46.22 dBm	-67.03 dB	-26.22 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00134 MHz	-77.79 dBm	-98.60 dB	-57.79 dB
2.538 MHz	7.500 MHz	100.000 kHz	822.99115 MHz	-34.79 dBm	-55.61 dB	-21.79 dB

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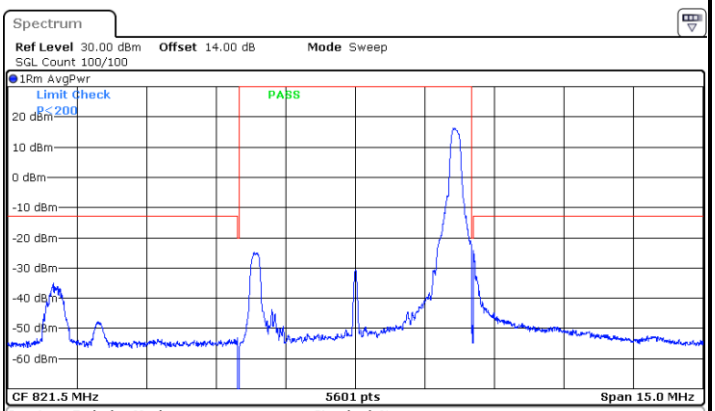
Highest Band Edge / 1 RB



Spectrum Emission Mask Standard: None
Tx Power 20.61 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	814.98205 MHz	-35.11 dBm	-55.73 dB	-22.11 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99866 MHz	-78.19 dBm	-98.81 dB	-58.19 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00134 MHz	-46.23 dBm	-66.84 dB	-26.23 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.03884 MHz	-24.25 dBm	-44.86 dB	-11.25 dB

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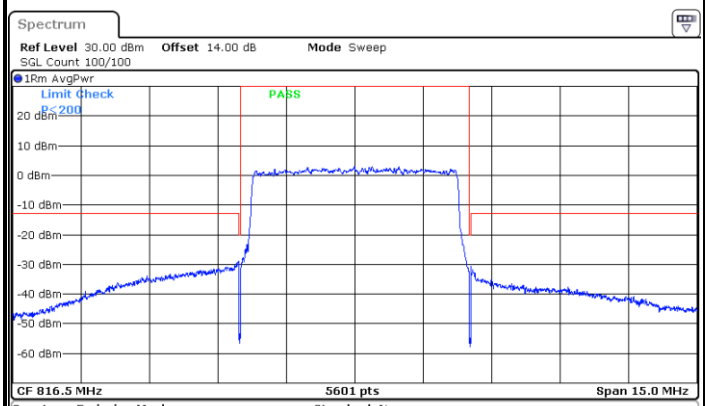
Lowest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 20.56 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	813.96116 MHz	-28.98 dBm	-49.54 dB	-15.98 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	813.99063 MHz	-51.96 dBm	-72.52 dB	-31.96 dB
2.500 MHz	2.538 MHz	300.000 Hz	819.00937 MHz	-53.61 dBm	-74.17 dB	-33.61 dB
2.538 MHz	7.500 MHz	100.000 kHz	819.04152 MHz	-30.78 dBm	-51.34 dB	-17.78 dB

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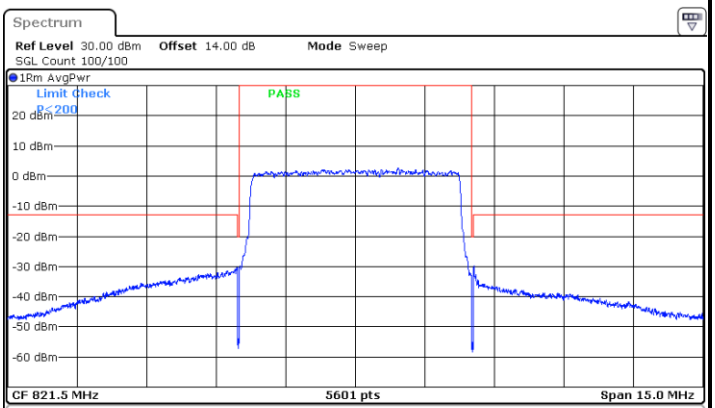
Highest Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 20.29 dBm Tx Bandwidth 5.000 MHz RBW 50.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-7.500 MHz	-2.538 MHz	100.000 kHz	818.96116 MHz	-30.44 dBm	-50.73 dB	-17.44 dB
-2.538 MHz	-2.500 MHz	300.000 Hz	818.99063 MHz	-52.39 dBm	-72.68 dB	-32.39 dB
2.500 MHz	2.538 MHz	300.000 Hz	824.00937 MHz	-54.18 dBm	-74.47 dB	-34.18 dB
2.538 MHz	7.500 MHz	100.000 kHz	824.05760 MHz	-29.78 dBm	-50.07 dB	-16.78 dB

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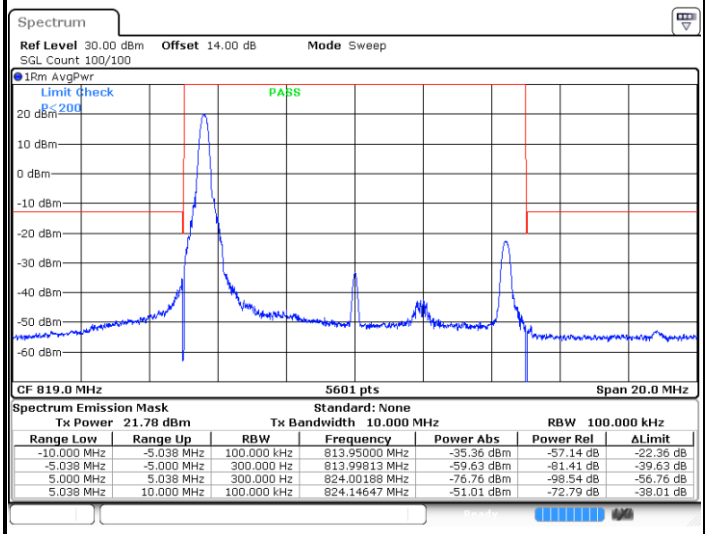
LTE Band 26 / 10MHz / QPSK

Middle Band Edge / 1RB

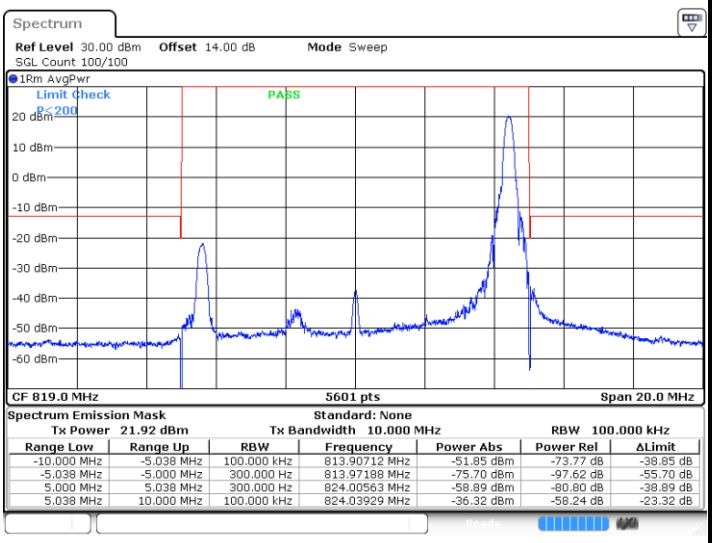


Spectrum Emission Mask — Standard: None
Tx Power 21.78 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.95000 MHz	-35.36 dBm	-57.14 dB	-22.36 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-59.63 dBm	-81.41 dB	-39.63 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-76.76 dBm	-98.54 dB	-56.76 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.14647 MHz	-51.01 dBm	-72.79 dB	-38.01 dB

Date: 31.MAR.2025 18:14:00

Middle Band Edge / 1RB



Spectrum Emission Mask — Standard: None
Tx Power 21.92 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	813.90712 MHz	-51.85 dBm	-73.77 dB	-38.85 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.97188 MHz	-75.70 dBm	-97.62 dB	-55.70 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00563 MHz	-58.89 dBm	-80.80 dB	-38.89 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.03929 MHz	-36.32 dBm	-58.24 dB	-23.32 dB

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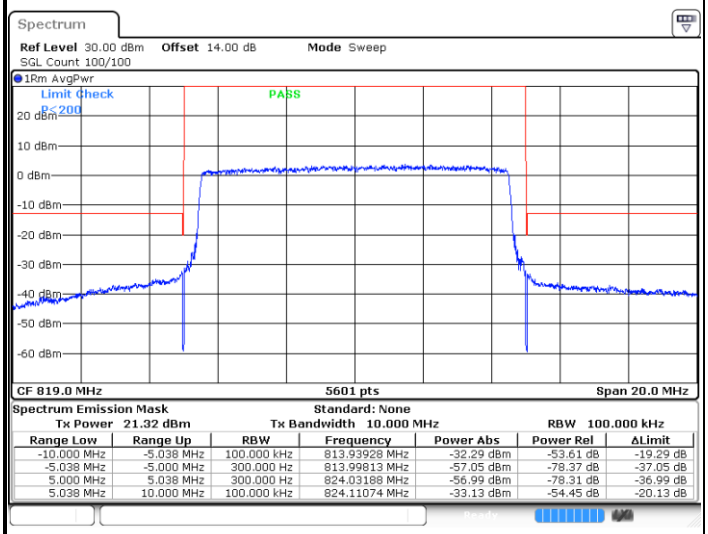
Middle Band Edge / Full RB



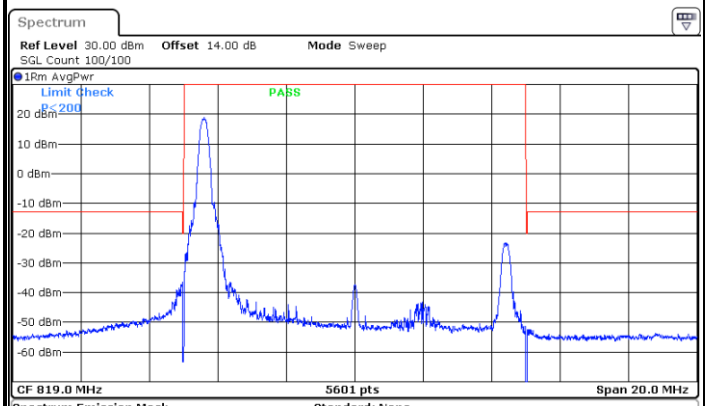
Spectrum Emission Mask — Standard: None
Tx Power 21.32 dBm — Tx Bandwidth 10.000 MHz — RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.93928 MHz	-32.29 dBm	-53.61 dB	-19.29 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-57.05 dBm	-78.37 dB	-37.05 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.03188 MHz	-56.99 dBm	-78.31 dB	-36.99 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.11074 MHz	-33.13 dBm	-54.45 dB	-20.13 dB

Date: 31.MAR.2025 18:18:19

LTE Band 26 / 10MHz / 16QAM

Middle Band Edge / 1 RB

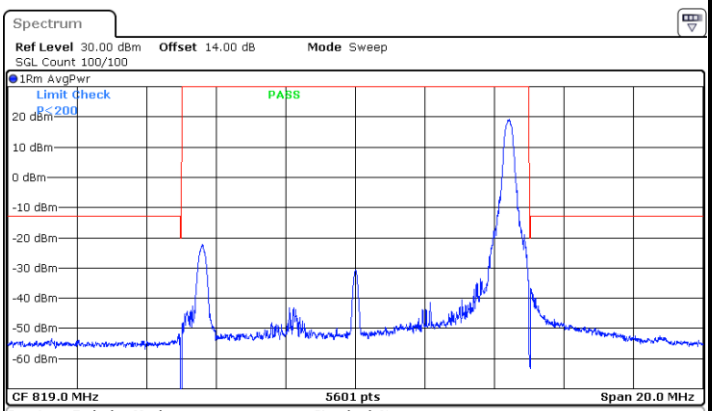


Spectrum Emission Mask Standard: None
Tx Power 20.48 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.96071 MHz	-36.60 dBm	-57.09 dB	-23.60 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-58.40 dBm	-78.88 dB	-38.40 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.03188 MHz	-77.01 dBm	-97.49 dB	-57.01 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.15004 MHz	-52.44 dBm	-72.92 dB	-39.44 dB

Date: 31.MAR.2025 18:14:43

Middle Band Edge / 1 RB

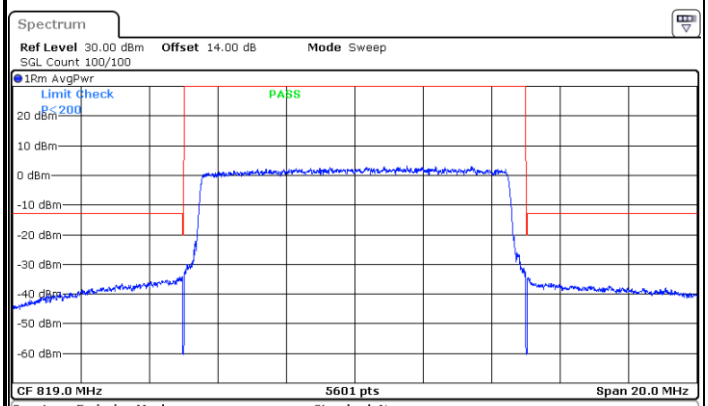


Spectrum Emission Mask Standard: None
Tx Power 20.73 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.92499 MHz	-51.99 dBm	-72.73 dB	-38.99 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.99813 MHz	-76.76 dBm	-97.49 dB	-56.76 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-58.95 dBm	-79.68 dB	-38.95 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.04643 MHz	-36.90 dBm	-57.63 dB	-23.90 dB

Date: 31.MAR.2025 18:16:53

Middle Band Edge / Full RB



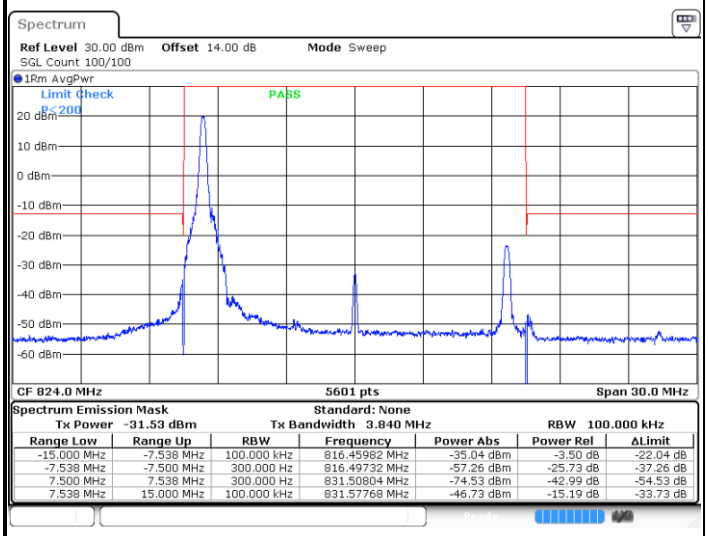
Spectrum Emission Mask Standard: None
Tx Power 20.49 dBm Tx Bandwidth 10.000 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-10.000 MHz	-5.038 MHz	100.000 kHz	813.96071 MHz	-34.19 dBm	-54.69 dB	-21.19 dB
-5.038 MHz	-5.000 MHz	300.000 Hz	813.98312 MHz	-57.55 dBm	-78.04 dB	-37.55 dB
5.000 MHz	5.038 MHz	300.000 Hz	824.00188 MHz	-58.35 dBm	-78.84 dB	-38.35 dB
5.038 MHz	10.000 MHz	100.000 kHz	824.06787 MHz	-34.39 dBm	-54.89 dB	-21.39 dB

Date: 31.MAR.2025 18:19:02

LTE Band 26 / 15MHz

Middle Band Edge / 1RB QPSK

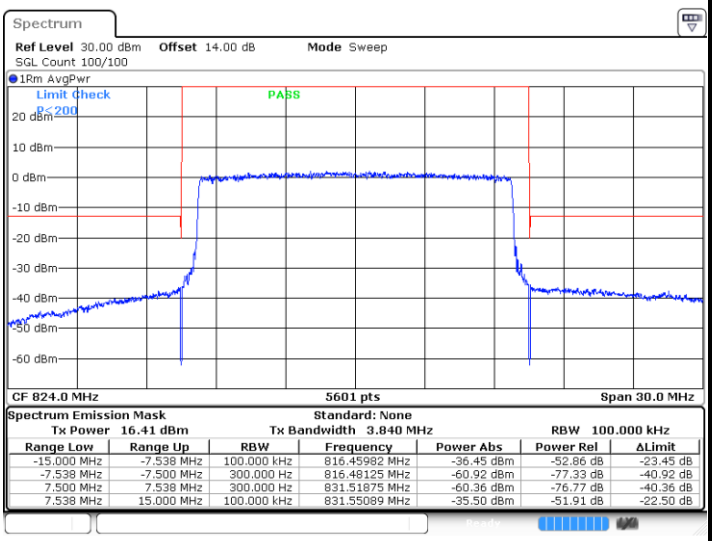


Spectrum Emission Mask Standard: None
Tx Power -31.53 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.45982 MHz	-35.04 dBm	-3.50 dB	-22.04 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-57.26 dBm	-25.73 dB	-37.26 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.50804 MHz	-74.53 dBm	-42.99 dB	-54.53 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.57768 MHz	-46.73 dBm	-15.19 dB	-33.73 dB

Date: 31.MAR.2025 18:29:19

Middle Band Edge / Full RB QPSK

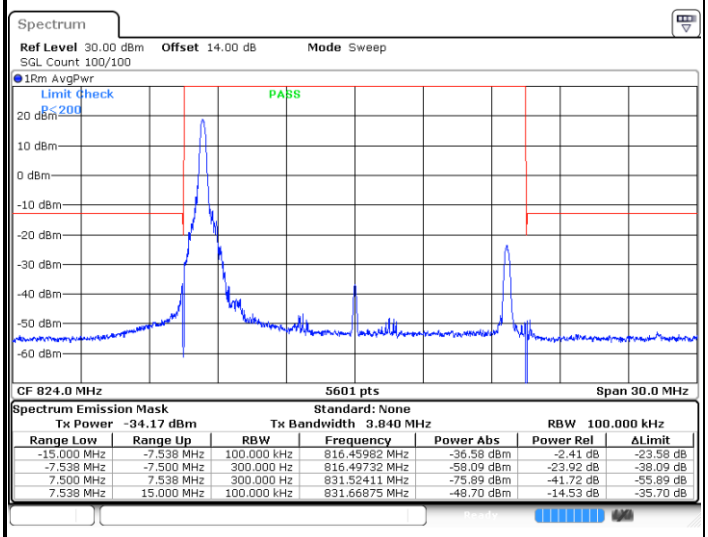


Spectrum Emission Mask Standard: None
Tx Power 16.41 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.45982 MHz	-36.45 dBm	-52.86 dB	-23.45 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-60.92 dBm	-77.33 dB	-40.92 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-60.36 dBm	-76.77 dB	-40.36 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55089 MHz	-35.50 dBm	-51.91 dB	-22.50 dB

Date: 31.MAR.2025 18:25:45

Middle Band Edge / 1 RB 16QAM



Spectrum Emission Mask Standard: None
Tx Power -34.17 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.45982 MHz	-36.58 dBm	-2.41 dB	-23.58 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.49732 MHz	-58.09 dBm	-23.92 dB	-38.09 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.52411 MHz	-75.89 dBm	-41.72 dB	-55.89 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.66875 MHz	-48.70 dBm	-14.53 dB	-35.70 dB

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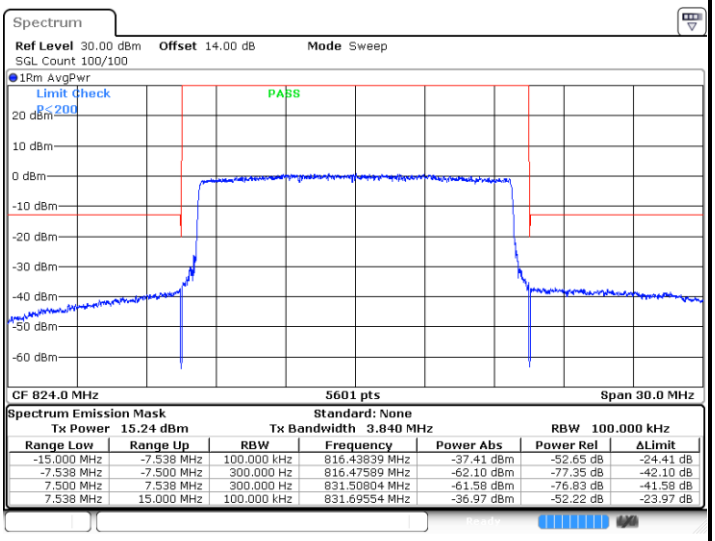
Middle Band Edge / Full RB 16QAM



Spectrum Emission Mask Standard: None
Tx Power 15.24 dBm Tx Bandwidth 3.840 MHz RBW 100.000 kHz

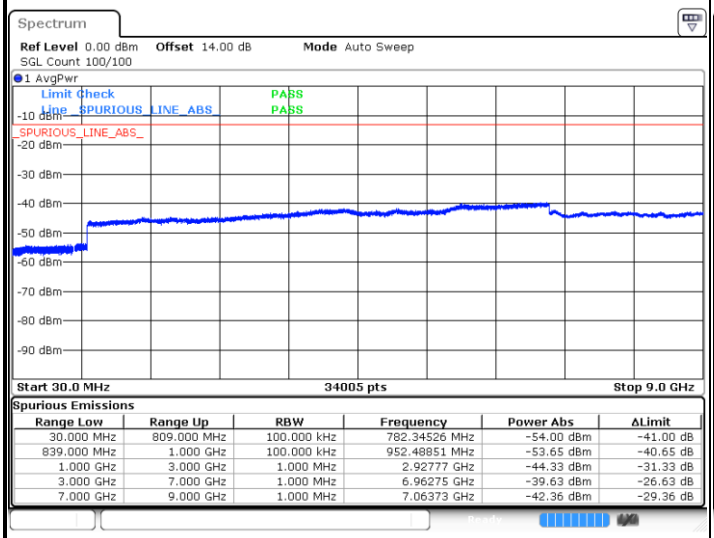
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.43839 MHz	-37.41 dBm	-52.65 dB	-24.41 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.47589 MHz	-62.10 dBm	-77.35 dB	-42.10 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.50804 MHz	-61.58 dBm	-76.83 dB	-41.58 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.69554 MHz	-36.97 dBm	-52.22 dB	-23.97 dB

Date: 31.MAR.2025 18:26:28

Emission masks – Out of band emissions

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

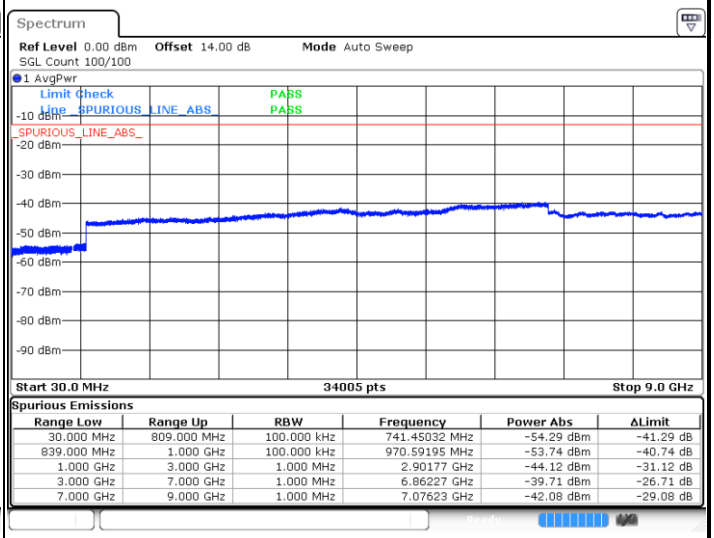


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	782.34526 MHz	-54.00 dBm	-41.00 dB
839.000 MHz	1.000 GHz	100.000 kHz	952.48851 MHz	-53.65 dBm	-40.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.92777 GHz	-44.33 dBm	-31.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96275 GHz	-39.63 dBm	-26.63 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06373 GHz	-42.36 dBm	-29.36 dB

Date: 31.MAR.2025 17:34:50

Middle Channel / QPSK

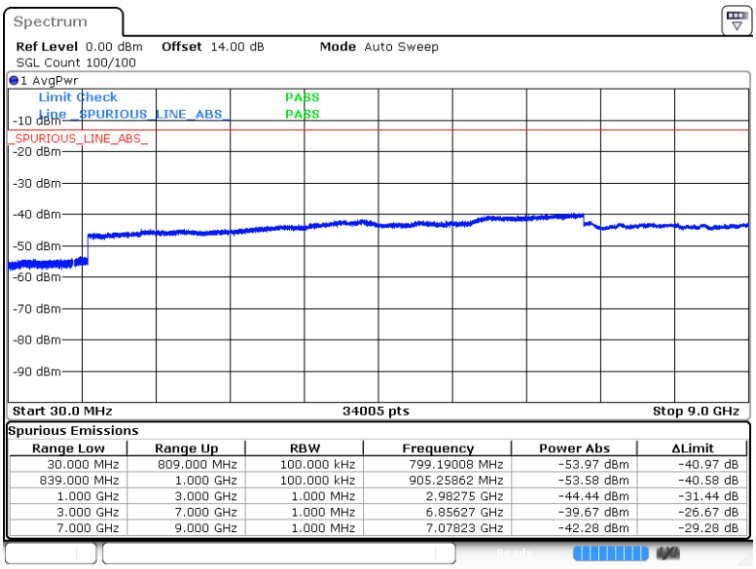


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	741.45032 MHz	-54.29 dBm	-41.29 dB
839.000 MHz	1.000 GHz	100.000 kHz	970.59195 MHz	-53.74 dBm	-40.74 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.90177 GHz	-44.12 dBm	-31.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86227 GHz	-39.71 dBm	-26.71 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07623 GHz	-42.08 dBm	-29.08 dB

Date: 31.MAR.2025 17:36:04

Highest Channel / QPSK



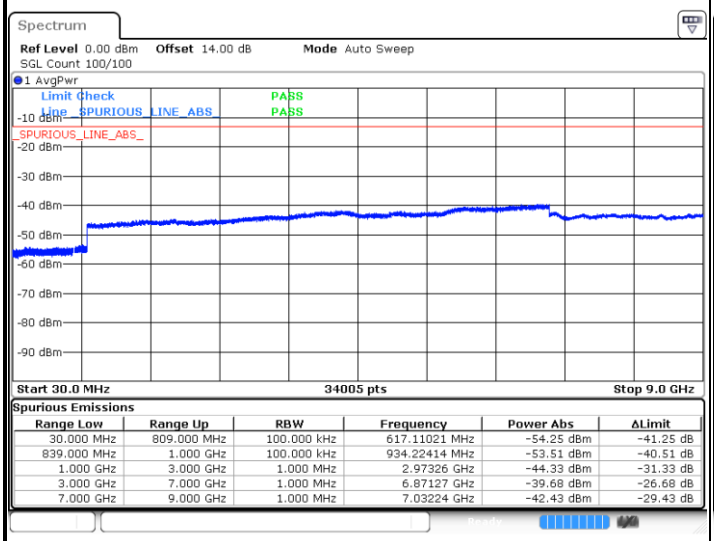
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	799.19008 MHz	-53.97 dBm	-40.97 dB
839.000 MHz	1.000 GHz	100.000 kHz	905.25862 MHz	-53.58 dBm	-40.58 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98275 GHz	-44.44 dBm	-31.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85627 GHz	-39.67 dBm	-26.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07823 GHz	-42.28 dBm	-29.28 dB

Date: 31.MAR.2025 17:43:19

LTE Band 26 / 3MHz

Lowest Channel / QPSK

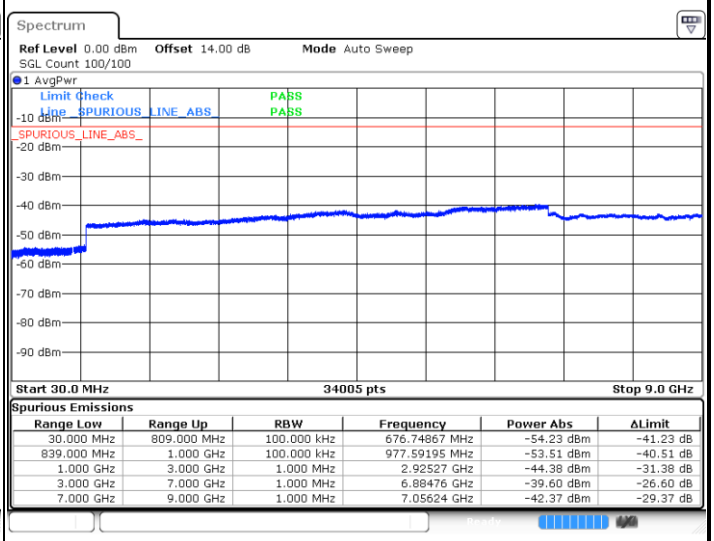


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	617.11021 MHz	-54.25 dBm	-41.25 dB
839.000 MHz	1.000 GHz	100.000 kHz	934.22414 MHz	-53.51 dBm	-40.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97326 GHz	-44.33 dBm	-31.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87127 GHz	-39.68 dBm	-26.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03224 GHz	-42.43 dBm	-29.43 dB

Date: 31.MAR.2025 17:49:11

Middle Channel / QPSK

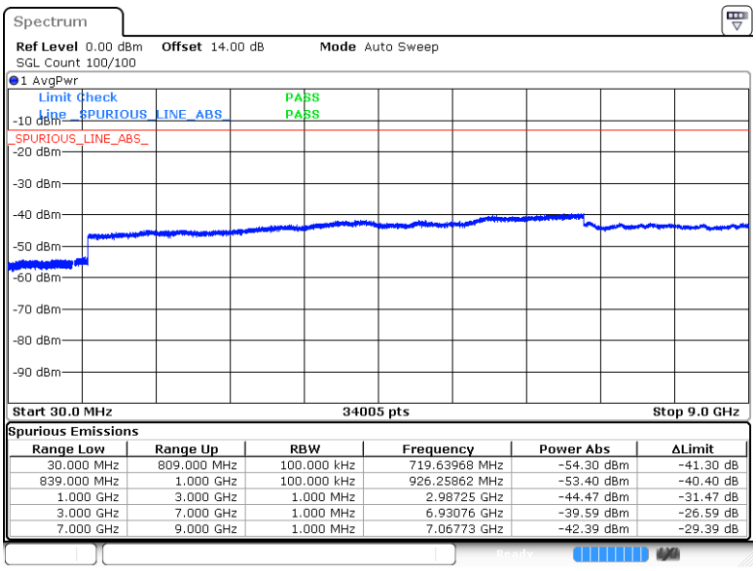


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	676.74867 MHz	-54.23 dBm	-41.23 dB
839.000 MHz	1.000 GHz	100.000 kHz	977.59195 MHz	-53.51 dBm	-40.51 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.92527 GHz	-44.38 dBm	-31.38 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88476 GHz	-39.60 dBm	-26.60 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05624 GHz	-42.37 dBm	-29.37 dB

Date: 31.MAR.2025 17:50:25

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	719.63968 MHz	-54.30 dBm	-41.30 dB
839.000 MHz	1.000 GHz	100.000 kHz	926.25862 MHz	-53.40 dBm	-40.40 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98725 GHz	-44.47 dBm	-31.47 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93076 GHz	-39.59 dBm	-26.59 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06773 GHz	-42.39 dBm	-29.39 dB

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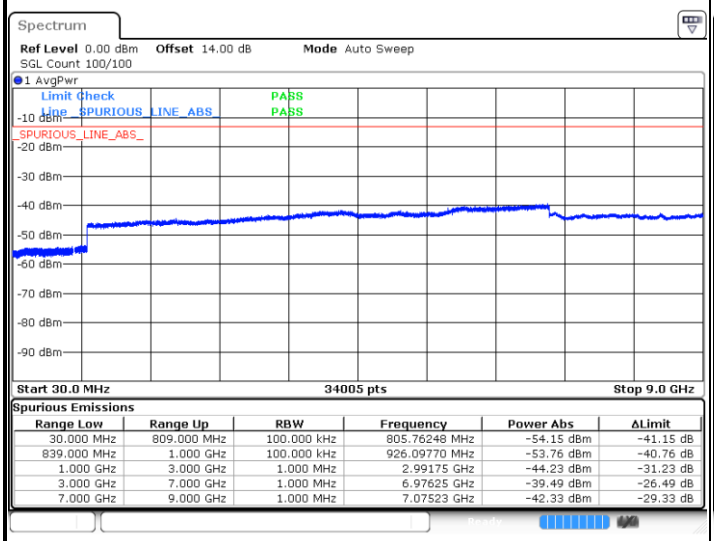
LTE Band 26 / 5MHz

Lowest Channel / QPSK

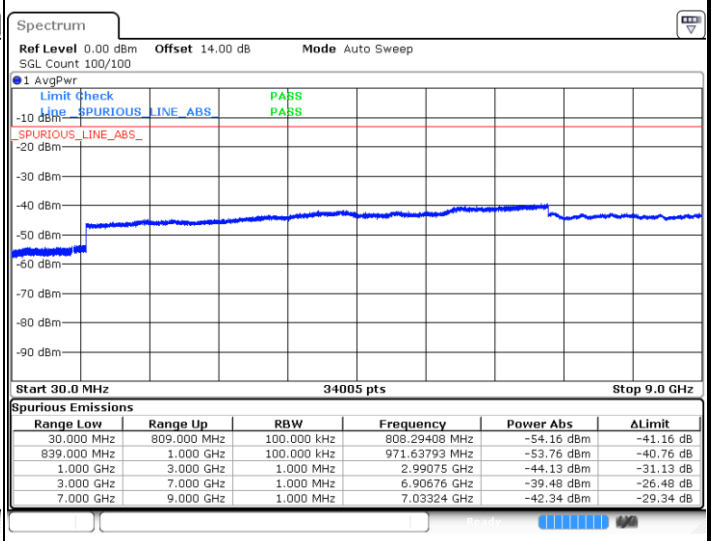


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	805.76248 MHz	-54.15 dBm	-41.15 dB
839.000 MHz	1.000 GHz	100.000 kHz	926.09770 MHz	-53.76 dBm	-40.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99175 GHz	-44.23 dBm	-31.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97625 GHz	-39.49 dBm	-26.49 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.07523 GHz	-42.33 dBm	-29.33 dB

Date: 31.MAR.2025 18:05:38

Middle Channel / QPSK

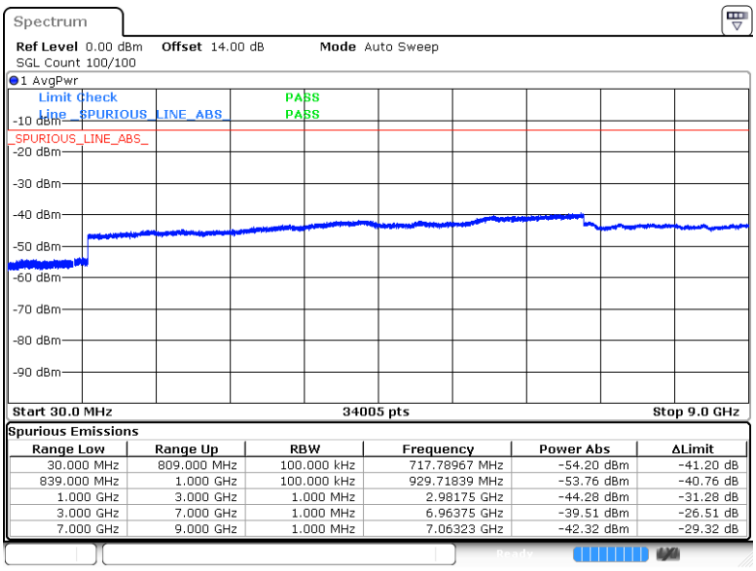


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	808.29408 MHz	-54.16 dBm	-41.16 dB
839.000 MHz	1.000 GHz	100.000 kHz	971.63793 MHz	-53.76 dBm	-40.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.99075 GHz	-44.13 dBm	-31.13 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90676 GHz	-39.48 dBm	-26.48 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.03324 GHz	-42.34 dBm	-29.34 dB

Date: 31.MAR.2025 18:06:36

Highest Channel / QPSK



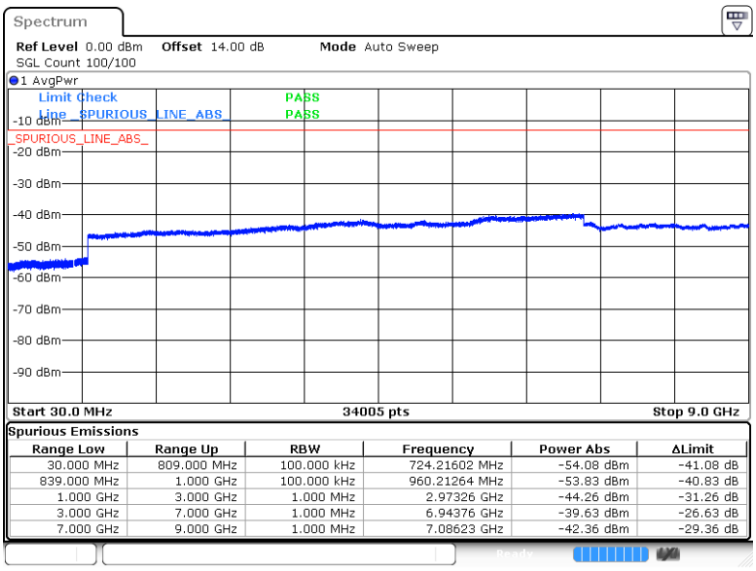
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	717.78967 MHz	-54.20 dBm	-41.20 dB
839.000 MHz	1.000 GHz	100.000 kHz	929.71839 MHz	-53.76 dBm	-40.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98175 GHz	-44.28 dBm	-31.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96375 GHz	-39.51 dBm	-26.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06323 GHz	-42.32 dBm	-29.32 dB

Date: 31.MAR.2025 18:13:13

LTE Band 26 / 10MHz

Middle Channel / QPSK



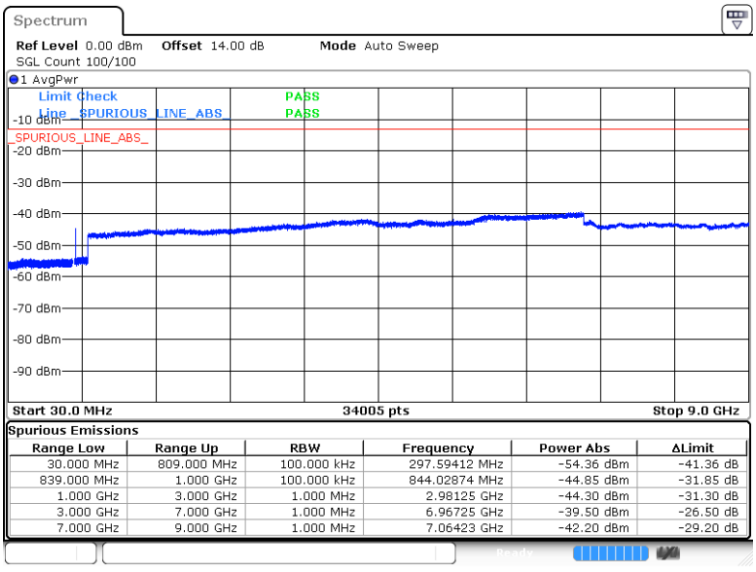
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	724.21602 MHz	-54.08 dBm	-41.08 dB
839.000 MHz	1.000 GHz	100.000 kHz	960.21264 MHz	-53.83 dBm	-40.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.97326 GHz	-44.26 dBm	-31.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94376 GHz	-39.63 dBm	-26.63 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.08623 GHz	-42.36 dBm	-29.36 dB

Date: 31.MAR.2025 18:23:32

LTE Band 26 / 15MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	809.000 MHz	100.000 kHz	297.59412 MHz	-54.36 dBm	-41.36 dB
839.000 MHz	1.000 GHz	100.000 kHz	844.02874 MHz	-44.85 dBm	-31.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.98125 GHz	-44.30 dBm	-31.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96725 GHz	-39.50 dBm	-26.50 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06423 GHz	-42.20 dBm	-29.20 dB

Date: 31.MAR.2025 18:29:53

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	≤2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0060	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0055	

Note:

1. Normal Voltage = 12 V.；Minimum Voltage = 9 V.；Maximum Voltage = 43 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake	Temperature :	21~25℃
		Relative Humidity :	51~53%

LTE Band 26 / 5MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1632	-60.87	-13	-47.87	-67.84	1.58	10.70	H
	2440	-59.51	-13	-46.51	-67.76	2.102	12.50	H
	3256	-57.44	-13	-44.44	-66.33	2.856	13.90	H
	1632	-56.87	-13	-43.87	-63.84	1.58	10.70	V
	2440	-57.95	-13	-44.95	-66.20	2.10	12.50	V
	3256	-57.77	-13	-44.77	-66.66	2.86	13.90	V
Middle	1632	-55.11	-13	-42.11	-62.08	1.58	10.70	H
	2448	-59.63	-13	-46.63	-67.88	2.102	12.50	H
	3264	-57.68	-13	-44.68	-66.57	2.856	13.90	H
	1632	-57.03	-13	-44.03	-64.00	1.58	10.70	V
	2448	-57.80	-13	-44.80	-66.05	2.10	12.50	V
	3264	-57.46	-13	-44.46	-66.35	2.86	13.90	V
Highest	1640	-61.32	-13	-48.32	-68.29	1.58	10.70	H
	2456	-59.86	-13	-46.86	-68.11	2.102	12.50	H
	3280	-57.86	-13	-44.86	-66.75	2.856	13.90	H
	1640	-56.73	-13	-43.73	-63.70	1.58	10.70	V
	2456	-57.91	-13	-44.91	-66.16	2.10	12.50	V
	3280	-57.76	-13	-44.76	-66.65	2.86	13.90	V

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

LTE Band 26 / 10MHz / QPSK								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-55.83	-13	-42.83	-62.80	1.58	10.70	H
	2440	-59.51	-13	-46.51	-67.76	2.102	12.50	H
	3256	-57.46	-13	-44.46	-66.35	2.856	13.90	H
	1632	-57.94	-13	-44.94	-64.91	1.58	10.70	V
	2440	-57.69	-13	-44.69	-65.94	2.10	12.50	V
	3256	-57.55	-13	-44.55	-66.44	2.86	13.90	V

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