FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Redmi
MODEL NAME	:	25062RN2DL
FCC ID	:	2AFZZRN2DL
STANDARD	:	47 CFR Part 27(F), 27(M)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Apr. 24, 2025 ~ Apr. 25, 2025

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

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **5**

1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 6
1.6 Maximum ERP/EIRP Power and Emission Designator 7
1.7 Testing Location 8
1.8 Test Software 8
1.9 Applicable Standards 8

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **9**

2.1 Test Mode 9
2.2 Connection Diagram of Test System 10
2.3 Support Unit used in test configuration and system 10
2.4 Measurement Results Explanation Example 10
2.5 Frequency List of Low/Middle/High Channels 11

3 CONDUCTED TEST ITEMS **13**

3.1 Measuring Instruments 13
3.2 Test Setup 13
3.3 Test Result of Conducted Test 13
3.4 Conducted Output Power and ERP/EIRP 14
3.5 Peak-to-Average Ratio 15
3.6 Occupied Bandwidth 16
3.7 Conducted Band Edge 17
3.8 Conducted Spurious Emission 19
3.9 Frequency Stability 20

4 RADIATED TEST ITEMS **21**

4.1 Measuring Instruments 21
4.2 Test Setup 21
4.3 Test Result of Radiated Test 22
4.4 Radiated Spurious Emission 23

5 LIST OF MEASURING EQUIPMENT **24**

6 MEASUREMENT UNCERTAINTY **25**

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
FG542103C	Rev. 01	Initial issue of report	May 20, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(b)(10)	Effective Radiated Power (Band 13)	ERP < 3 Watt	PASS	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §27.53(c)(2)(4)	Conducted Band Edge Measurement (Band 13)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(c)(2)	Conducted Spurious Emission (Band 13)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(c)(2) §27.53(f)	Radiated Spurious Emission (Band 13)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 20.81 dB at 1559.50 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< $55+10\log_{10}$(P[Watts])		

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

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

1.2 Manufacturer

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Redmi
Model Name	25062RN2DL
FCC ID	2AFZZRN2DL
IMEI Code	Conducted: 867451070065328 Radiation: 867491070069023/867451070069031
HW Version	13510O19A
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Rx Frequency	LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 13 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<ANT1>: LTE Band 7 : 24.27 dBm LTE Band 13 : 24.34 dBm LTE Band 38 : 24.12 dBm LTE Band 41 : 24.15 dBm <ANT4>: LTE Band 7 : 24.40 dBm LTE Band 13 : 24.24 dBm LTE Band 38 : 24.25 dBm LTE Band 41 : 24.30 dBm
Antenna Gain	<ANT1>: LTE Band 7 : -1.2 dBi LTE Band 13 : -4.1 dBi LTE Band 38 : -1.2 dBi LTE Band 41 : -1.2 dBi <ANT4>: LTE Band 7 : -1.2 dBi LTE Band 13 : -5.2 dBi LTE Band 38 : 1.2 dBi LTE Band 41 : 1.2 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP of Antenna 1 for LTE Band13 and Antenna 4 for LTE Band7/38/41 are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 7		QPSK		16QAM/64QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.2075	4M48G7D	0.1596	4M47W7D
10	2505.0 ~ 2565.0	0.2075	8M97G7D	0.1589	8M97W7D
15	2507.5 ~ 2562.5	0.2028	13M5G7D	0.1600	13M4W7D
20	2510.0 ~ 2560.0	0.2089	17M9G7D	0.1626	17M8W7D
LTE Band 13		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**	**Maximum ERP(W)**	**Emission Designator (99%OBW)**
5	779.5 ~ 784.5	0.0623	4M49G7D	0.0503	4M48W7D
10	782.0	0.0644	9M03G7D	0.0508	9M03W7D
LTE Band 38		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
5	2572.5 ~ 2617.5	0.3451	4M50G7D	0.2767	4M47W7D
10	2575.0 ~ 2615.0	0.3483	9M01G7D	0.2773	9M03W7D
15	2577.5 ~ 2612.5	0.3451	13M5G7D	0.2767	13M5W7D
20	2580.0 ~ 2610.0	0.3508	17M9G7D	0.2825	17M7W7D
LTE Band 41		**QPSK**		**16QAM/64QAM**	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
5	2498.5 ~ 2687.5	0.3451	4M50G7D	0.2844	4M47W7D
10	2501.0 ~ 2685.0	0.3420	9M01G7D	0.2805	9M03W7D
15	2503.5 ~ 2682.5	0.3365	13M5G7D	0.2864	13M5W7D
20	2506.0 ~ 2680.0	0.3548	17M9G7D	0.2891	17M7W7D

Note:

1. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.7 Testing Location

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 03CH01-SZ	CN1256	421272

1.8 Test Software

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

1.9 Applicable Standards

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

- 47 CFR Part 27(F), 27(M)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

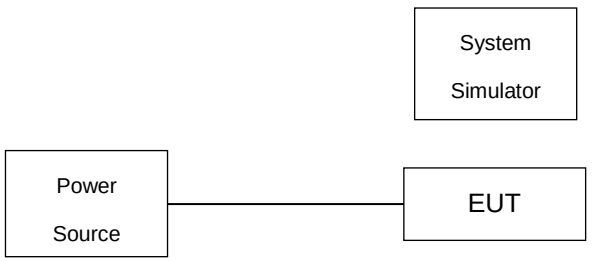
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v			v		v	
	13	-	-		v	-	-	v	v	v			v		v	
	41	-	-				v	v	v	v			v		v	
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v				v		v	
	13	-	-	v	v	-	-	v	v				v		v	
	41	-	-	v	v	v	v	v	v				v		v	
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	13	-	-		v	-	-	v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	7	Worst Case													v	
	13	Worst Case													v	
	41	Worst Case													v	

Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor 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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.0 dB and 10dB attenuator.

Example :

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

= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

LTE Band 13 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

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

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

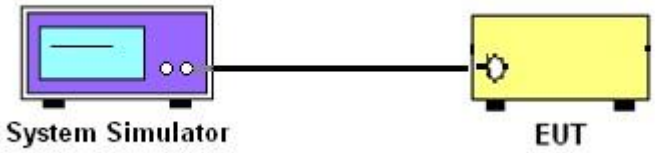
3 Conducted Test Items

3.1 Measuring Instruments

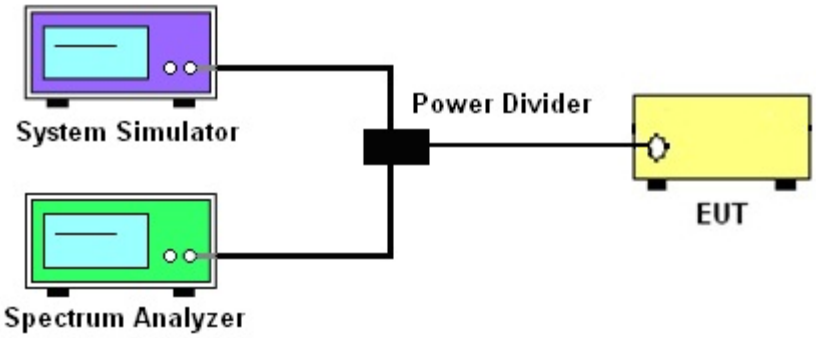
See list of measuring instruments of this test report.

3.2 Test Setup

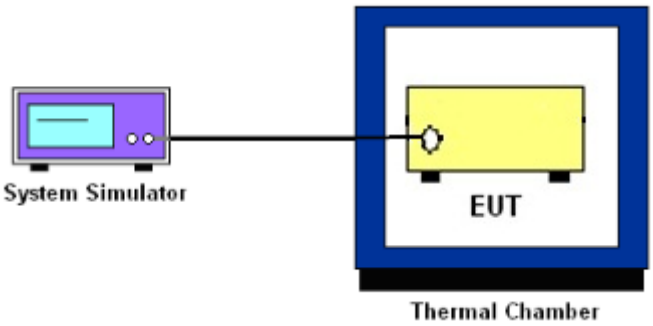
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 13.

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

According to KDB 412172 D01 Power Approach,

EIRP = $P_T + G_T – L_C$, ERP = EIRP -2.15, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
   (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53(m)(4)

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

3.7.2 Test Procedures

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

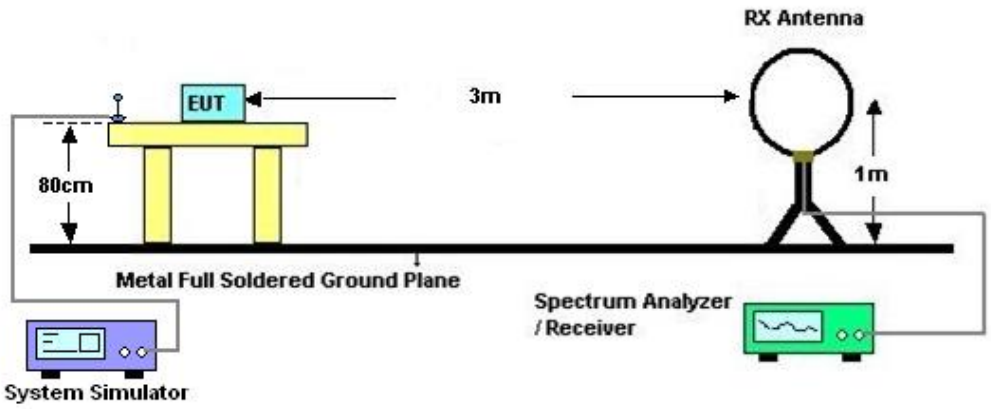
4 Radiated Test Items

4.1 Measuring Instruments

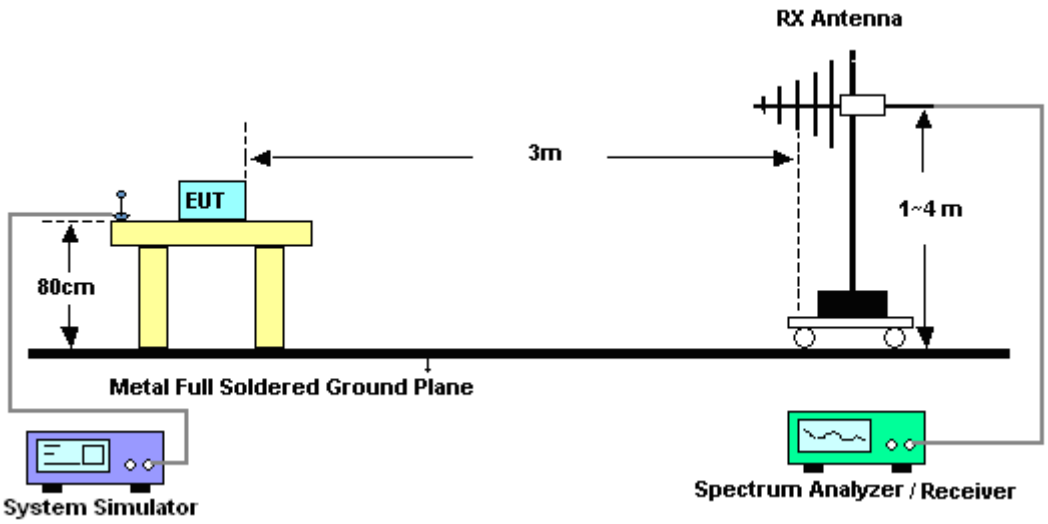
See list of measuring instruments of this test report.

4.2 Test Setup

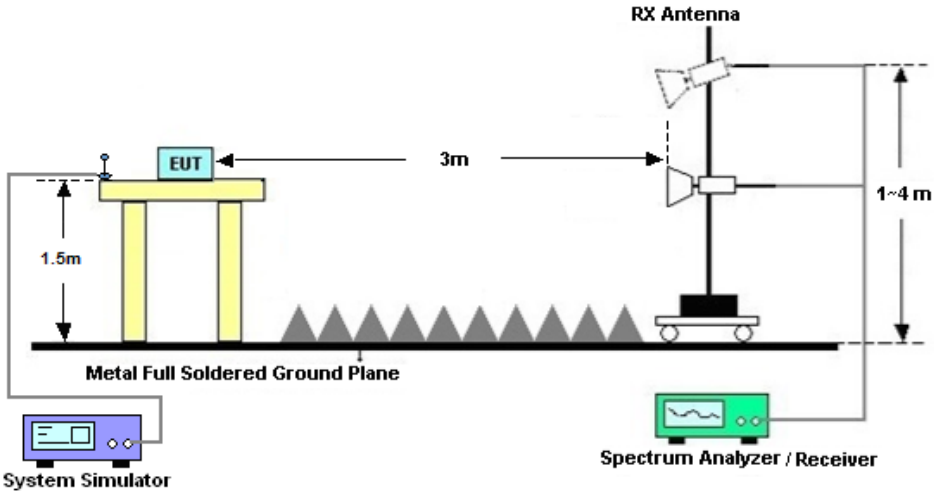
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38, 41

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

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions 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.

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

4.4.2 Test Procedures

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

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Apr. 24, 2025~ Apr. 25, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 14,2024	Apr. 24, 2025~ Apr. 25, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Apr. 24, 2025~ Apr. 25, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Apr. 24, 2025~ Apr. 25, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 25, 2024	Apr. 25, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Apr. 25, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Apr. 25, 2025	Oct. 13, 2025	Radiation (03CH01-SZ
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	Apr. 25, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Apr. 25, 2025	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	Apr. 25, 2025	Apr. 02, 2027	Radiation (03CH01-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	Apr. 25, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-1	1943528	1GHz~18GHz	Oct. 14, 2024	Apr. 25, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Apr. 25, 2025	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Apr. 25, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 25, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 25, 2025	NCR	Radiation (03CH01-SZ)

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 Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Peak to Average Ratio	±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))	2.48 dB

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

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

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

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

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

Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and ERP/EIRP

LTE Band 7_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	24.29	24.40	24.31	0.2037	0.2089	0.2046
20	QPSK	1	49	24.35	24.19	24.32	0.2065	0.1991	0.2051
20	QPSK	1	99	24.32	24.31	24.32	0.2051	0.2046	0.2051
20	QPSK	50	0	23.27	23.44	23.31	0.1611	0.1675	0.1626
20	QPSK	50	24	23.26	23.31	23.43	0.1607	0.1626	0.1671
20	QPSK	50	50	23.26	23.41	23.33	0.1607	0.1663	0.1633
20	QPSK	100	0	23.27	23.32	23.15	0.1611	0.1629	0.1567
20	16QAM	1	0	23.31	23.30	23.09	0.1626	0.1622	0.1545
20	16QAM	1	49	23.10	23.16	23.26	0.1549	0.1570	0.1607
20	16QAM	1	99	23.28	23.30	23.27	0.1614	0.1622	0.1611
20	16QAM	50	0	22.10	22.25	22.11	0.1230	0.1274	0.1233
20	16QAM	50	24	22.19	22.24	22.17	0.1256	0.1271	0.1250
20	16QAM	50	50	22.09	22.33	22.04	0.1227	0.1297	0.1213
20	16QAM	100	0	22.06	22.18	22.18	0.1219	0.1253	0.1253
20	64QAM	1	0	22.08	22.21	22.19	0.1225	0.1262	0.1256
20	64QAM	1	49	22.07	22.25	22.00	0.1222	0.1274	0.1202
20	64QAM	1	99	22.07	22.18	22.23	0.1222	0.1253	0.1268
20	64QAM	50	0	21.23	21.36	21.30	0.1007	0.1038	0.1023
20	64QAM	50	24	21.27	21.37	21.21	0.1016	0.1040	0.1002
20	64QAM	50	50	21.31	21.29	21.19	0.1026	0.1021	0.0998
20	64QAM	100	0	21.16	21.31	21.21	0.0991	0.1026	0.1002
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	24.20	24.27	24.27	0.1995	0.2028	0.2028
15	QPSK	1	37	24.14	24.17	24.11	0.1968	0.1982	0.1954
15	QPSK	1	74	24.13	24.26	24.22	0.1963	0.2023	0.2004
15	QPSK	36	0	23.10	23.34	23.15	0.1549	0.1637	0.1567
15	QPSK	36	20	23.15	23.24	23.22	0.1567	0.1600	0.1592
15	QPSK	36	39	23.15	23.32	23.13	0.1567	0.1629	0.1560
15	QPSK	75	0	23.25	23.20	22.99	0.1603	0.1585	0.1510
15	16QAM	1	0	23.24	23.17	22.90	0.1600	0.1574	0.1479
15	16QAM	1	37	23.05	23.10	23.22	0.1531	0.1549	0.1592

15	16QAM	1	74	23.09	23.17	23.19	0.1545	0.1574	0.1581
15	16QAM	36	0	22.00	22.16	22.06	0.1202	0.1247	0.1219
15	16QAM	36	20	22.13	22.10	22.04	0.1239	0.1230	0.1213
15	16QAM	36	39	21.93	22.24	21.95	0.1183	0.1271	0.1189
15	16QAM	75	0	22.01	21.99	22.11	0.1205	0.1199	0.1233
15	64QAM	1	0	21.90	22.11	22.03	0.1175	0.1233	0.1211
15	64QAM	1	37	21.96	22.19	21.90	0.1191	0.1256	0.1175
15	64QAM	1	74	21.95	22.00	22.14	0.1189	0.1202	0.1242
15	64QAM	36	0	21.03	21.30	21.23	0.0962	0.1023	0.1007
15	64QAM	36	20	21.09	21.23	21.12	0.0975	0.1007	0.0982
15	64QAM	36	39	21.25	21.09	21.01	0.1012	0.0975	0.0957
15	64QAM	75	0	20.96	21.27	21.04	0.0946	0.1016	0.0964
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	24.18	24.37	24.20	0.1986	0.2075	0.1995
10	QPSK	1	25	24.29	24.03	24.21	0.2037	0.1919	0.2000
10	QPSK	1	49	24.22	24.22	24.22	0.2004	0.2004	0.2004
10	QPSK	25	0	23.19	23.28	23.29	0.1581	0.1614	0.1618
10	QPSK	25	12	23.21	23.09	23.32	0.1589	0.1545	0.1629
10	QPSK	25	25	23.14	23.37	23.24	0.1563	0.1648	0.1600
10	QPSK	50	0	23.21	23.16	23.12	0.1589	0.1570	0.1556
10	16QAM	1	0	23.21	23.13	23.02	0.1589	0.1560	0.1521
10	16QAM	1	25	23.07	23.00	23.13	0.1538	0.1514	0.1560
10	16QAM	1	49	23.20	23.18	23.06	0.1585	0.1578	0.1535
10	16QAM	25	0	21.94	22.20	21.96	0.1186	0.1259	0.1191
10	16QAM	25	12	22.14	22.05	21.96	0.1242	0.1216	0.1191
10	16QAM	25	25	21.95	22.23	21.88	0.1189	0.1268	0.1169
10	16QAM	50	0	21.99	22.14	22.15	0.1199	0.1242	0.1245
10	64QAM	1	0	22.03	22.06	22.01	0.1211	0.1219	0.1205
10	64QAM	1	25	21.86	22.22	21.93	0.1164	0.1265	0.1183
10	64QAM	1	49	22.04	21.98	22.04	0.1213	0.1197	0.1213
10	64QAM	25	0	21.02	21.22	21.27	0.0959	0.1005	0.1016
10	64QAM	25	12	21.08	21.30	21.18	0.0973	0.1023	0.0995
10	64QAM	25	25	21.18	21.17	21.01	0.0995	0.0993	0.0957
10	64QAM	50	0	21.06	21.26	21.04	0.0968	0.1014	0.0964
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	24.10	24.37	24.24	0.1950	0.2075	0.2014
5	QPSK	1	12	24.24	24.07	24.19	0.2014	0.1936	0.1991
5	QPSK	1	24	24.20	24.18	24.30	0.1995	0.1986	0.2042
5	QPSK	12	0	23.22	23.39	23.18	0.1592	0.1656	0.1578
5	QPSK	12	7	23.07	23.17	23.23	0.1538	0.1574	0.1596
5	QPSK	12	13	23.12	23.28	23.21	0.1556	0.1614	0.1589
5	QPSK	25	0	23.24	23.14	22.97	0.1600	0.1563	0.1503
5	16QAM	1	0	23.12	23.23	22.89	0.1556	0.1596	0.1476
5	16QAM	1	12	23.07	22.98	23.18	0.1538	0.1507	0.1578
5	16QAM	1	24	23.21	23.15	23.22	0.1589	0.1567	0.1592

5	16QAM	12	0	21.90	22.16	21.90	0.1175	0.1247	0.1175
5	16QAM	12	7	22.09	22.07	22.09	0.1227	0.1222	0.1227
5	16QAM	12	13	22.05	22.14	21.90	0.1216	0.1242	0.1175
5	16QAM	25	0	21.98	22.14	22.16	0.1197	0.1242	0.1247
5	64QAM	1	0	21.90	22.08	22.06	0.1175	0.1225	0.1219
5	64QAM	1	12	22.00	22.19	21.97	0.1202	0.1256	0.1194
5	64QAM	1	24	21.93	22.07	22.16	0.1183	0.1222	0.1247
5	64QAM	12	0	21.20	21.23	21.26	0.1000	0.1007	0.1014
5	64QAM	12	7	21.09	21.33	21.16	0.0975	0.1030	0.0991
5	64QAM	12	13	21.25	21.17	21.12	0.1012	0.0993	0.0982
5	64QAM	25	0	21.09	21.18	21.12	0.0975	0.0995	0.0982

LTE Band 13_ANT1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	ERP(W)		
Channel				23230					
Frequency (MHz)				782				M	
10	QPSK	1	0		24.34			0.0644	
10	QPSK	1	25		24.31			0.0639	
10	QPSK	1	49		24.23			0.0627	
10	QPSK	25	0		23.31			0.0508	
10	QPSK	25	12		23.16			0.0490	
10	QPSK	25	25		23.27			0.0503	
10	QPSK	50	0		23.32			0.0509	
10	16QAM	1	0		23.31			0.0508	
10	16QAM	1	25		23.18			0.0493	
10	16QAM	1	49		23.28			0.0504	
10	16QAM	25	0		22.31			0.0403	
10	16QAM	25	12		22.17			0.0390	
10	16QAM	25	25		22.26			0.0399	
10	16QAM	50	0		22.36			0.0408	
10	64QAM	1	0		22.23			0.0396	
10	64QAM	1	25		22.10			0.0384	
10	64QAM	1	49		22.20			0.0393	
10	64QAM	25	0		21.37			0.0325	
10	64QAM	25	12		21.31			0.0320	
10	64QAM	25	25		21.26			0.0317	
10	64QAM	50	0		21.29			0.0319	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	24.15	24.19	24.13	0.0616	0.0622	0.0613
5	QPSK	1	12	24.20	24.14	24.13	0.0623	0.0615	0.0613
5	QPSK	1	24	24.08	24.19	24.07	0.0606	0.0622	0.0605
5	QPSK	12	0	23.24	23.13	23.27	0.0500	0.0487	0.0503
5	QPSK	12	7	22.97	23.10	23.07	0.0469	0.0484	0.0480

5	QPSK	12	13	23.21	23.18	23.24	0.0496	0.0493	0.0500
5	QPSK	25	0	23.19	23.10	23.28	0.0494	0.0484	0.0504
5	16QAM	1	0	23.12	23.12	23.27	0.0486	0.0486	0.0503
5	16QAM	1	12	22.98	23.15	23.15	0.0471	0.0489	0.0489
5	16QAM	1	24	23.23	23.21	23.12	0.0498	0.0496	0.0486
5	16QAM	12	0	22.14	22.10	22.20	0.0388	0.0384	0.0393
5	16QAM	12	7	22.14	22.11	21.99	0.0388	0.0385	0.0375
5	16QAM	12	13	22.16	22.22	22.12	0.0390	0.0395	0.0386
5	16QAM	25	0	22.31	22.30	22.31	0.0403	0.0402	0.0403
5	64QAM	1	0	22.02	22.06	22.20	0.0377	0.0381	0.0393
5	64QAM	1	12	21.96	22.03	21.96	0.0372	0.0378	0.0372
5	64QAM	1	24	22.15	22.04	22.11	0.0389	0.0379	0.0385
5	64QAM	12	0	21.34	21.29	21.32	0.0323	0.0319	0.0321
5	64QAM	12	7	21.22	21.09	21.21	0.0314	0.0304	0.0313
5	64QAM	12	13	21.09	21.14	21.12	0.0304	0.0308	0.0307
5	64QAM	25	0	21.23	21.23	21.19	0.0314	0.0314	0.0312

LTE Band 38_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				37850	38000	38150			
Frequency (MHz)				2580	2595	2610	L	M	H
20	QPSK	1	0	24.07	24.25	24.21	0.3365	0.3508	0.3475
20	QPSK	1	49	24.23	24.18	24.12	0.3491	0.3451	0.3404
20	QPSK	1	99	24.03	24.11	24.20	0.3334	0.3396	0.3467
20	QPSK	50	0	23.27	23.34	23.30	0.2799	0.2844	0.2818
20	QPSK	50	24	23.09	23.11	23.13	0.2685	0.2698	0.2710
20	QPSK	50	50	23.14	23.26	23.23	0.2716	0.2793	0.2773
20	QPSK	100	0	23.20	23.32	23.29	0.2754	0.2831	0.2812
20	16QAM	1	0	23.10	23.29	23.21	0.2692	0.2812	0.2761
20	16QAM	1	49	23.11	23.31	23.14	0.2698	0.2825	0.2716
20	16QAM	1	99	23.16	23.23	23.24	0.2729	0.2773	0.2780
20	16QAM	50	0	22.48	22.48	22.26	0.2333	0.2333	0.2218
20	16QAM	50	24	22.43	22.52	22.39	0.2307	0.2355	0.2286
20	16QAM	50	50	22.33	22.43	22.41	0.2254	0.2307	0.2296
20	16QAM	100	0	22.44	22.42	22.21	0.2312	0.2301	0.2193
20	64QAM	1	0	22.14	22.36	22.26	0.2158	0.2270	0.2218
20	64QAM	1	49	22.29	22.31	22.33	0.2234	0.2244	0.2254
20	64QAM	1	99	22.21	22.30	22.21	0.2193	0.2239	0.2193
20	64QAM	50	0	21.11	21.30	21.22	0.1702	0.1778	0.1746
20	64QAM	50	24	21.28	21.22	21.30	0.1770	0.1746	0.1778
20	64QAM	50	50	21.27	21.31	21.13	0.1766	0.1782	0.1710
20	64QAM	100	0	21.44	21.45	21.24	0.1837	0.1841	0.1754
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	23.93	24.18	24.07	0.3258	0.3451	0.3365

15	QPSK	1	37	24.11	24.01	23.95	0.3396	0.3319	0.3273
15	QPSK	1	74	23.88	23.93	24.12	0.3221	0.3258	0.3404
15	QPSK	36	0	23.21	23.12	23.19	0.2761	0.2704	0.2748
15	QPSK	36	20	23.01	22.97	23.03	0.2636	0.2612	0.2649
15	QPSK	36	39	22.95	23.07	23.09	0.2600	0.2673	0.2685
15	QPSK	75	0	23.17	23.30	23.24	0.2735	0.2818	0.2780
15	16QAM	1	0	22.97	23.11	23.18	0.2612	0.2698	0.2742
15	16QAM	1	37	22.92	23.22	23.11	0.2582	0.2767	0.2698
15	16QAM	1	74	23.12	23.17	23.06	0.2704	0.2735	0.2667
15	16QAM	36	0	22.31	22.45	22.20	0.2244	0.2317	0.2188
15	16QAM	36	20	22.27	22.35	22.23	0.2223	0.2265	0.2203
15	16QAM	36	39	22.18	22.40	22.38	0.2178	0.2291	0.2280
15	16QAM	75	0	22.40	22.24	22.09	0.2291	0.2208	0.2133
15	64QAM	1	0	22.06	22.33	22.08	0.2118	0.2254	0.2128
15	64QAM	1	37	22.09	22.19	22.22	0.2133	0.2183	0.2198
15	64QAM	1	74	22.13	22.10	21.99	0.2153	0.2138	0.2084
15	64QAM	36	0	20.93	21.22	21.04	0.1633	0.1746	0.1675
15	64QAM	36	20	21.21	21.10	21.19	0.1742	0.1698	0.1734
15	64QAM	36	39	21.17	21.19	21.04	0.1726	0.1734	0.1675
15	64QAM	75	0	21.35	21.38	21.08	0.1799	0.1811	0.1690
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	24.01	24.22	24.13	0.3319	0.3483	0.3412
10	QPSK	1	25	24.12	24.07	23.94	0.3404	0.3365	0.3266
10	QPSK	1	49	23.90	24.00	23.99	0.3236	0.3311	0.3304
10	QPSK	25	0	23.11	23.19	23.20	0.2698	0.2748	0.2754
10	QPSK	25	12	23.04	22.95	23.09	0.2655	0.2600	0.2685
10	QPSK	25	25	23.08	23.15	23.01	0.2679	0.2723	0.2636
10	QPSK	50	0	22.99	23.29	23.15	0.2624	0.2812	0.2723
10	16QAM	1	0	23.04	23.22	23.16	0.2655	0.2767	0.2729
10	16QAM	1	25	23.08	23.23	23.08	0.2679	0.2773	0.2679
10	16QAM	1	49	22.98	23.20	23.04	0.2618	0.2754	0.2655
10	16QAM	25	0	22.42	22.30	22.24	0.2301	0.2239	0.2208
10	16QAM	25	12	22.27	22.41	22.20	0.2223	0.2296	0.2188
10	16QAM	25	25	22.16	22.26	22.19	0.2168	0.2218	0.2183
10	16QAM	50	0	22.37	22.39	22.07	0.2275	0.2286	0.2123
10	64QAM	1	0	22.10	22.26	22.06	0.2138	0.2218	0.2118
10	64QAM	1	25	22.08	22.26	22.26	0.2128	0.2218	0.2218
10	64QAM	1	49	22.18	22.19	22.03	0.2178	0.2183	0.2104
10	64QAM	25	0	21.06	21.24	21.10	0.1683	0.1754	0.1698
10	64QAM	25	12	21.25	21.02	21.12	0.1758	0.1667	0.1706
10	64QAM	25	25	21.10	21.11	21.09	0.1698	0.1702	0.1694
10	64QAM	50	0	21.24	21.33	21.11	0.1754	0.1791	0.1702
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	23.99	24.18	24.17	0.3304	0.3451	0.3443
5	QPSK	1	12	24.10	24.01	23.97	0.3388	0.3319	0.3289
5	QPSK	1	24	23.94	24.03	24.07	0.3266	0.3334	0.3365

5	QPSK	12	0	23.15	23.31	23.26	0.2723	0.2825	0.2793
5	QPSK	12	7	23.00	22.89	22.96	0.2630	0.2564	0.2606
5	QPSK	12	13	23.07	23.15	23.13	0.2673	0.2723	0.2710
5	QPSK	25	0	22.99	23.21	23.26	0.2624	0.2761	0.2793
5	16QAM	1	0	22.93	23.22	23.04	0.2588	0.2767	0.2655
5	16QAM	1	12	22.92	23.10	22.97	0.2582	0.2692	0.2612
5	16QAM	1	24	23.00	23.09	23.21	0.2630	0.2685	0.2761
5	16QAM	12	0	22.45	22.45	22.11	0.2317	0.2317	0.2143
5	16QAM	12	7	22.32	22.44	22.29	0.2249	0.2312	0.2234
5	16QAM	12	13	22.21	22.30	22.34	0.2193	0.2239	0.2259
5	16QAM	25	0	22.33	22.32	22.00	0.2254	0.2249	0.2089
5	64QAM	1	0	22.01	22.32	22.23	0.2094	0.2249	0.2203
5	64QAM	1	12	22.17	22.21	22.23	0.2173	0.2193	0.2203
5	64QAM	1	24	22.10	22.23	22.11	0.2138	0.2203	0.2143
5	64QAM	12	0	20.93	21.28	21.19	0.1633	0.1770	0.1734
5	64QAM	12	7	21.20	21.15	21.12	0.1738	0.1718	0.1706
5	64QAM	12	13	21.20	21.13	21.05	0.1738	0.1710	0.1679
5	64QAM	25	0	21.42	21.29	21.17	0.1828	0.1774	0.1726

LTE Band 41_ANT4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				39750	40620	41490			
Frequency (MHz)				2506	2593	2680	L	M	H
20	QPSK	1	0	23.92	24.30	24.02	0.3251	0.3548	0.3327
20	QPSK	1	49	24.16	24.26	23.96	0.3436	0.3516	0.3281
20	QPSK	1	99	24.09	24.16	24.09	0.3381	0.3436	0.3381
20	QPSK	50	0	23.26	23.35	23.23	0.2793	0.2851	0.2773
20	QPSK	50	24	23.23	23.19	23.11	0.2773	0.2748	0.2698
20	QPSK	50	50	23.19	23.26	23.30	0.2748	0.2793	0.2818
20	QPSK	100	0	23.19	23.26	23.17	0.2748	0.2793	0.2735
20	16QAM	1	0	23.35	23.38	23.40	0.2851	0.2871	0.2884
20	16QAM	1	49	23.29	23.28	23.33	0.2812	0.2805	0.2838
20	16QAM	1	99	23.35	23.41	23.36	0.2851	0.2891	0.2858
20	16QAM	50	0	22.15	22.22	22.09	0.2163	0.2198	0.2133
20	16QAM	50	24	22.10	22.21	22.06	0.2138	0.2193	0.2118
20	16QAM	50	50	22.23	22.27	22.01	0.2203	0.2223	0.2094
20	16QAM	100	0	22.26	22.25	22.06	0.2218	0.2213	0.2118
20	64QAM	1	0	22.33	22.32	22.33	0.2254	0.2249	0.2254
20	64QAM	1	49	22.12	22.37	22.16	0.2148	0.2275	0.2168
20	64QAM	1	99	22.33	22.44	22.23	0.2254	0.2312	0.2203
20	64QAM	50	0	21.43	21.48	21.41	0.1832	0.1854	0.1824
20	64QAM	50	24	21.35	21.47	21.49	0.1799	0.1849	0.1858
20	64QAM	50	50	21.46	21.59	21.27	0.1845	0.1901	0.1766
20	64QAM	100	0	21.25	21.35	21.26	0.1758	0.1799	0.1762
Channel				39725	40620	41515	EIRP(W)		

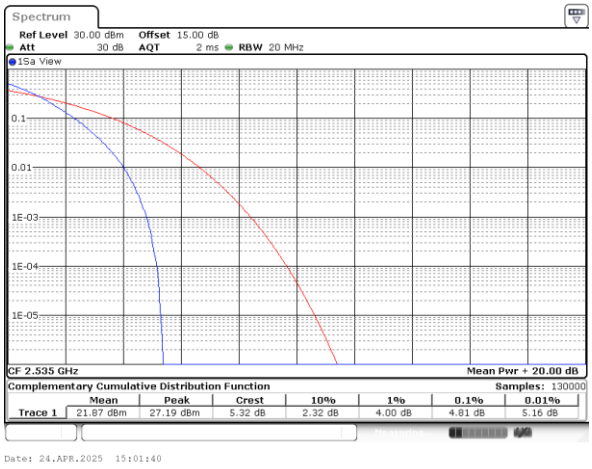
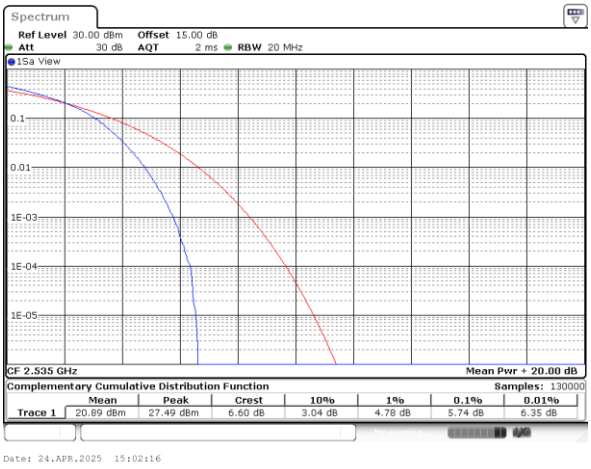
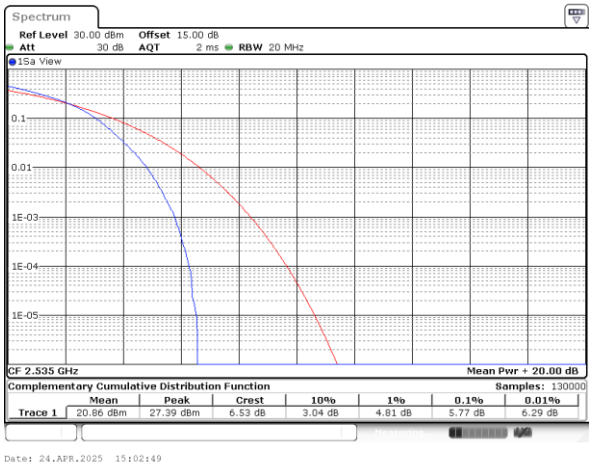
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	23.90	24.07	23.92	0.3236	0.3365	0.3251
15	QPSK	1	37	23.95	23.90	23.91	0.3273	0.3236	0.3243
15	QPSK	1	74	24.02	23.98	24.03	0.3327	0.3296	0.3334
15	QPSK	36	0	23.09	23.20	23.16	0.2685	0.2754	0.2729
15	QPSK	36	20	23.04	23.12	22.91	0.2655	0.2704	0.2576
15	QPSK	36	39	22.99	23.13	23.11	0.2624	0.2710	0.2698
15	QPSK	75	0	23.15	22.98	22.99	0.2723	0.2618	0.2624
15	16QAM	1	0	23.13	23.06	23.37	0.2710	0.2667	0.2864
15	16QAM	1	37	23.15	23.09	23.14	0.2723	0.2685	0.2716
15	16QAM	1	74	23.23	23.13	23.15	0.2773	0.2710	0.2723
15	16QAM	36	0	21.97	21.85	21.88	0.2075	0.2018	0.2032
15	16QAM	36	20	22.08	21.87	22.03	0.2128	0.2028	0.2104
15	16QAM	36	39	22.18	21.96	21.82	0.2178	0.2070	0.2004
15	16QAM	75	0	22.21	21.95	21.96	0.2193	0.2065	0.2070
15	64QAM	1	0	22.15	22.05	22.12	0.2163	0.2113	0.2148
15	64QAM	1	37	21.91	22.23	22.07	0.2046	0.2203	0.2123
15	64QAM	1	74	22.31	22.10	22.18	0.2244	0.2138	0.2178
15	64QAM	36	0	21.27	21.28	21.23	0.1766	0.1770	0.1750
15	64QAM	36	20	21.30	21.21	21.42	0.1778	0.1742	0.1828
15	64QAM	36	39	21.31	21.10	21.22	0.1782	0.1698	0.1746
15	64QAM	75	0	21.16	21.21	21.19	0.1722	0.1742	0.1734
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	23.72	24.14	23.88	0.3105	0.3420	0.3221
10	QPSK	1	25	24.09	23.89	23.77	0.3381	0.3228	0.3141
10	QPSK	1	49	23.89	23.99	23.94	0.3228	0.3304	0.3266
10	QPSK	25	0	23.22	23.20	23.06	0.2767	0.2754	0.2667
10	QPSK	25	12	23.06	23.12	22.89	0.2667	0.2704	0.2564
10	QPSK	25	25	23.12	23.14	23.14	0.2704	0.2716	0.2716
10	QPSK	50	0	22.99	22.96	23.09	0.2624	0.2606	0.2685
10	16QAM	1	0	23.13	23.18	23.20	0.2710	0.2742	0.2754
10	16QAM	1	25	23.22	23.06	23.15	0.2767	0.2667	0.2723
10	16QAM	1	49	23.28	23.12	23.19	0.2805	0.2704	0.2748
10	16QAM	25	0	22.03	22.04	21.88	0.2104	0.2109	0.2032
10	16QAM	25	12	21.94	21.94	21.97	0.2061	0.2061	0.2075
10	16QAM	25	25	22.15	21.87	21.87	0.2163	0.2028	0.2028
10	16QAM	50	0	22.20	21.94	21.91	0.2188	0.2061	0.2046
10	64QAM	1	0	22.25	22.07	22.13	0.2213	0.2123	0.2153
10	64QAM	1	25	21.99	22.22	21.99	0.2084	0.2198	0.2084
10	64QAM	1	49	22.30	22.09	22.07	0.2239	0.2133	0.2123
10	64QAM	25	0	21.32	21.24	21.39	0.1786	0.1754	0.1816
10	64QAM	25	12	21.14	21.17	21.44	0.1714	0.1726	0.1837
10	64QAM	25	25	21.29	21.18	21.13	0.1774	0.1730	0.1710
10	64QAM	50	0	21.15	21.30	21.19	0.1718	0.1778	0.1734
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	23.80	24.18	23.99	0.3162	0.3451	0.3304

5	QPSK	1	12	24.05	24.08	23.90	0.3350	0.3373	0.3236
5	QPSK	1	24	23.90	23.97	23.99	0.3236	0.3289	0.3304
5	QPSK	12	0	23.17	23.18	23.06	0.2735	0.2742	0.2667
5	QPSK	12	7	23.13	23.17	23.03	0.2710	0.2735	0.2649
5	QPSK	12	13	23.11	23.13	23.26	0.2698	0.2710	0.2793
5	QPSK	25	0	23.06	22.96	23.13	0.2667	0.2606	0.2710
5	16QAM	1	0	23.22	23.20	23.34	0.2767	0.2754	0.2844
5	16QAM	1	12	23.08	23.07	23.20	0.2679	0.2673	0.2754
5	16QAM	1	24	23.24	23.07	23.23	0.2780	0.2673	0.2773
5	16QAM	12	0	22.01	21.94	21.98	0.2094	0.2061	0.2080
5	16QAM	12	7	22.03	21.95	21.85	0.2104	0.2065	0.2018
5	16QAM	12	13	22.04	21.89	21.96	0.2109	0.2037	0.2070
5	16QAM	25	0	22.17	22.01	21.90	0.2173	0.2094	0.2042
5	64QAM	1	0	22.13	22.08	22.12	0.2153	0.2128	0.2148
5	64QAM	1	12	22.04	22.08	22.07	0.2109	0.2128	0.2123
5	64QAM	1	24	22.23	22.15	22.17	0.2203	0.2163	0.2173
5	64QAM	12	0	21.31	21.32	21.31	0.1782	0.1786	0.1782
5	64QAM	12	7	21.17	21.13	21.35	0.1726	0.1710	0.1799
5	64QAM	12	13	21.41	21.28	21.18	0.1824	0.1770	0.1730
5	64QAM	25	0	21.18	21.22	21.06	0.1730	0.1746	0.1683

LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.81	5.74	5.77	PASS

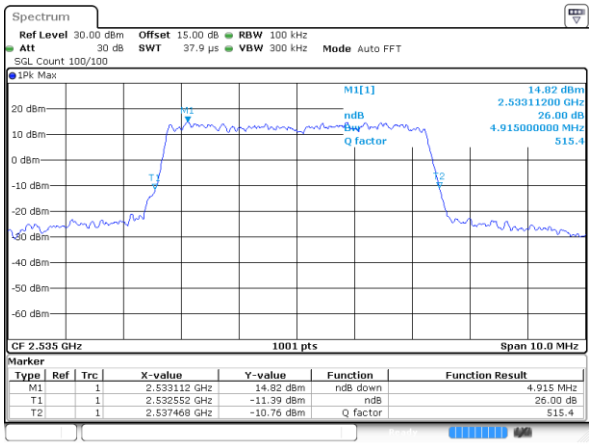
LTE Band 7 / 20MHz / QPSK	LTE Band 7 / 20MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 7 / 20MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

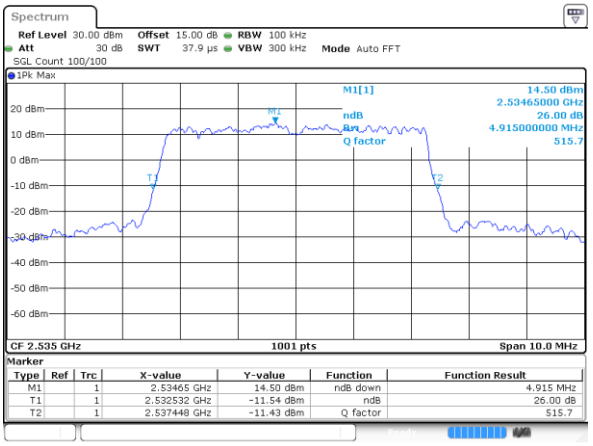
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.92	4.92	9.71	9.71	14.45	14.30	18.90	18.98

LTE Band 7

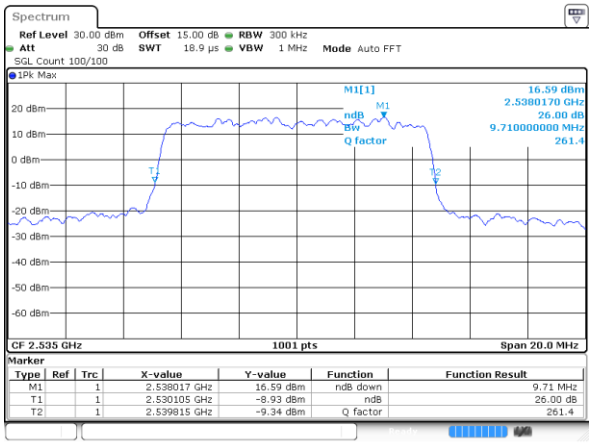
Middle Channel / 5MHz / QPSK



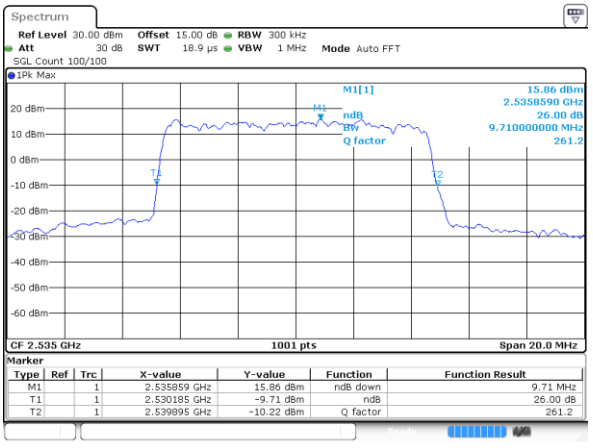
Middle Channel / 5MHz / 16QAM



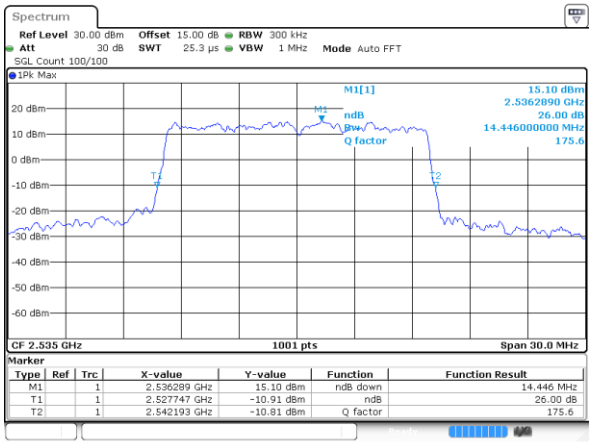
Middle Channel / 10MHz / QPSK



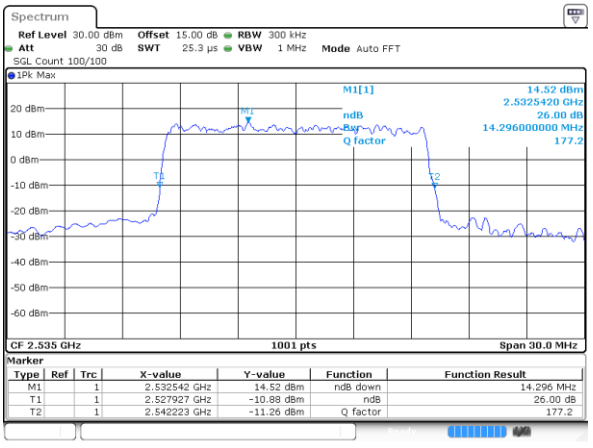
Middle Channel / 10MHz / 16QAM

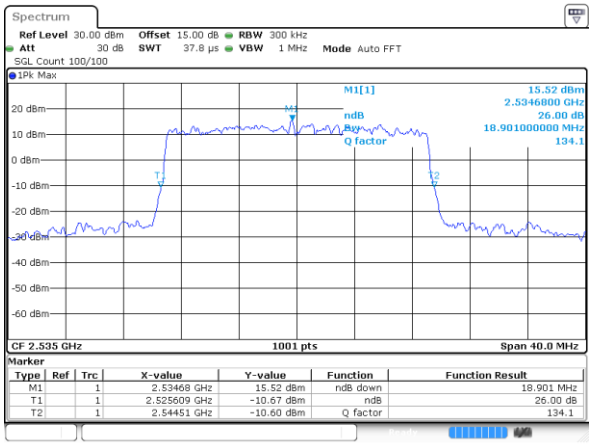
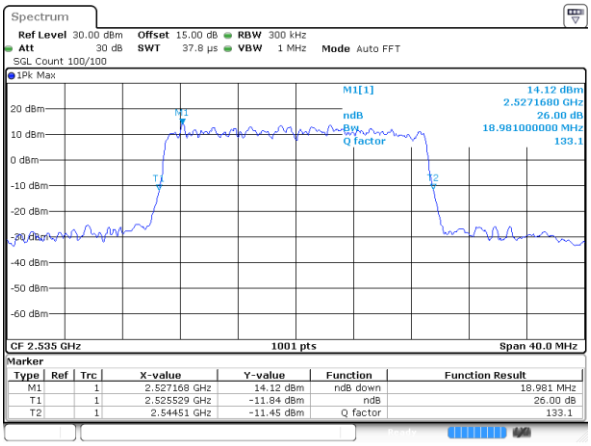


Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM



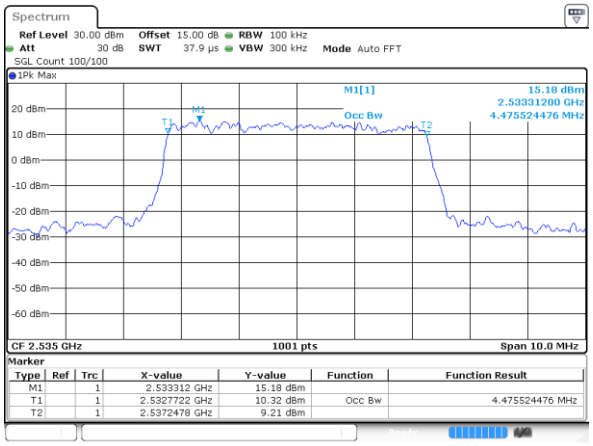
LTE Band 7	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	

Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.48	4.47	8.97	8.97	13.46	13.43	17.86	17.82

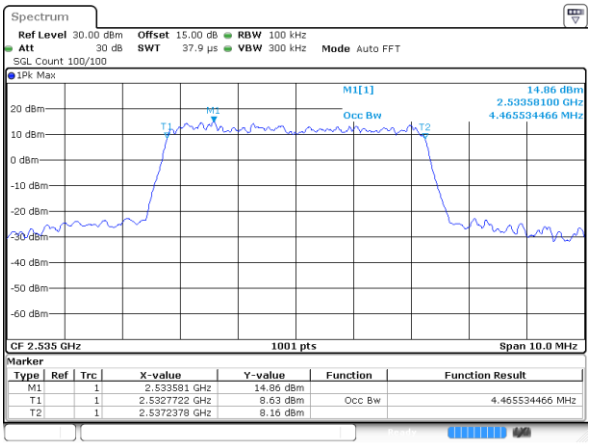
LTE Band 7

Middle Channel / 5MHz / QPSK



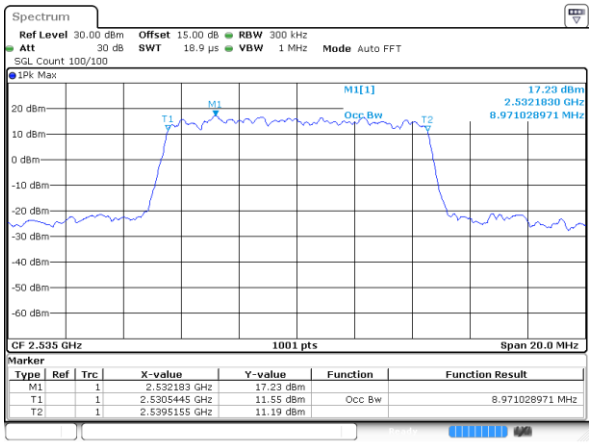
Date: 24.APR.2025 12:50:32

Middle Channel / 5MHz / 16QAM



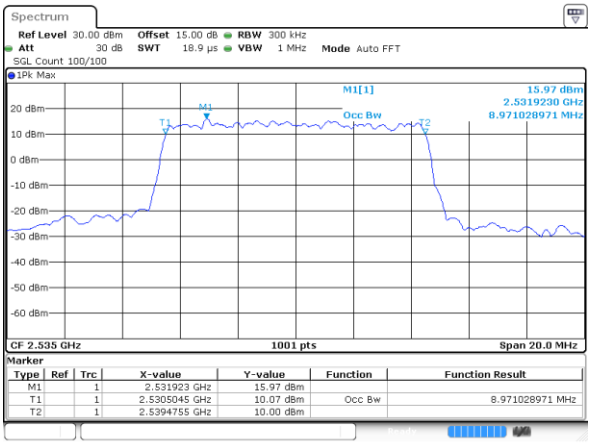
Date: 24.APR.2025 12:51:11

Middle Channel / 10MHz / QPSK



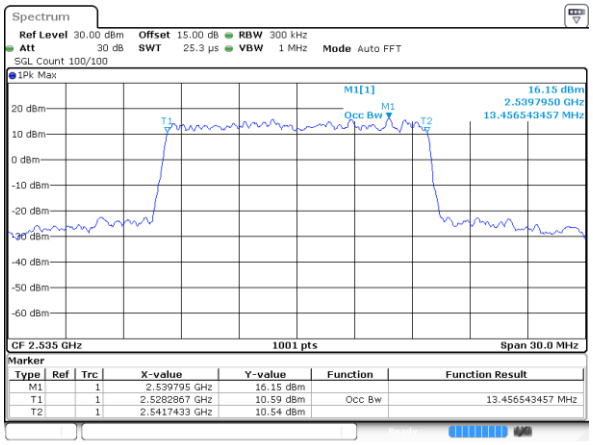
Date: 24.APR.2025 00:15:31

Middle Channel / 10MHz / 16QAM



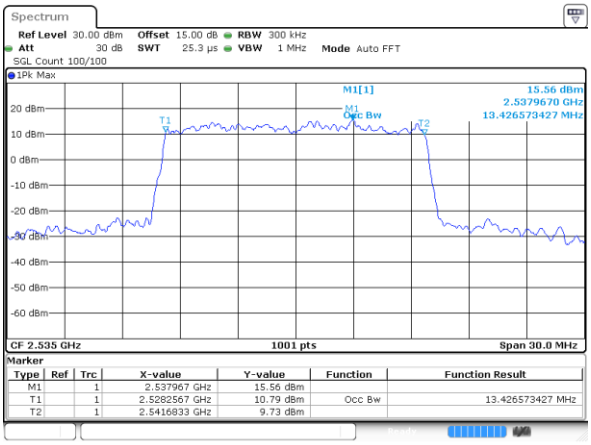
Date: 24.APR.2025 00:16:11

Middle Channel / 15MHz / QPSK

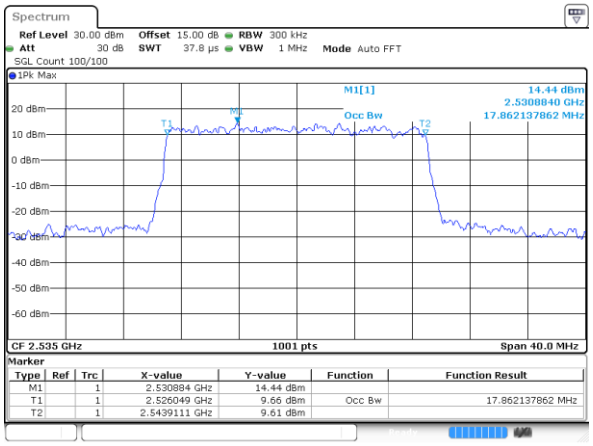
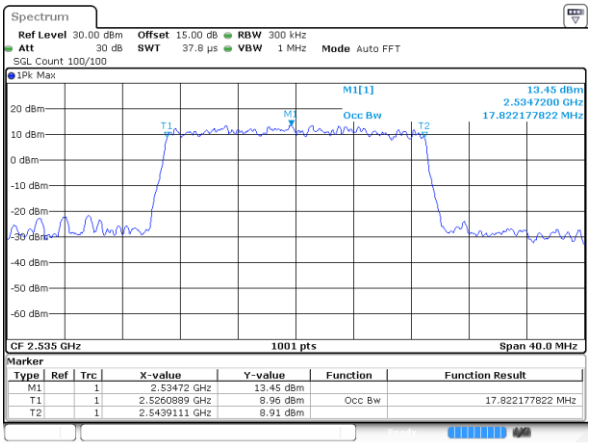


Date: 24.APR.2025 00:36:19

Middle Channel / 15MHz / 16QAM



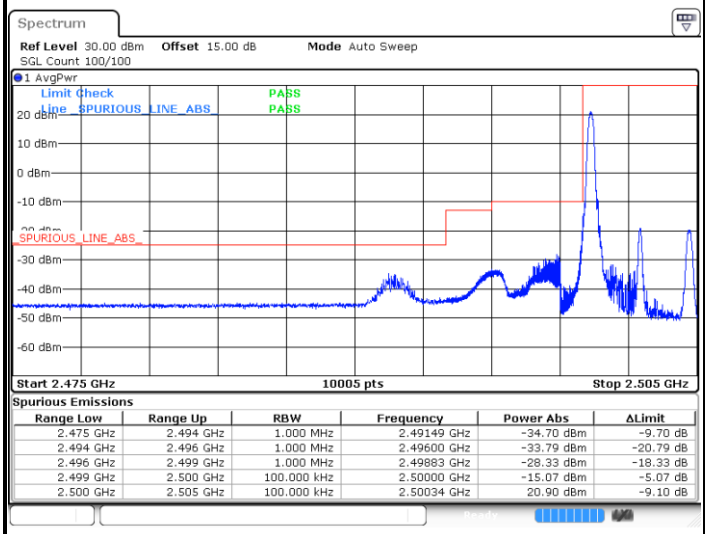
Date: 24.APR.2025 00:36:58

LTE Band 7	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	

Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

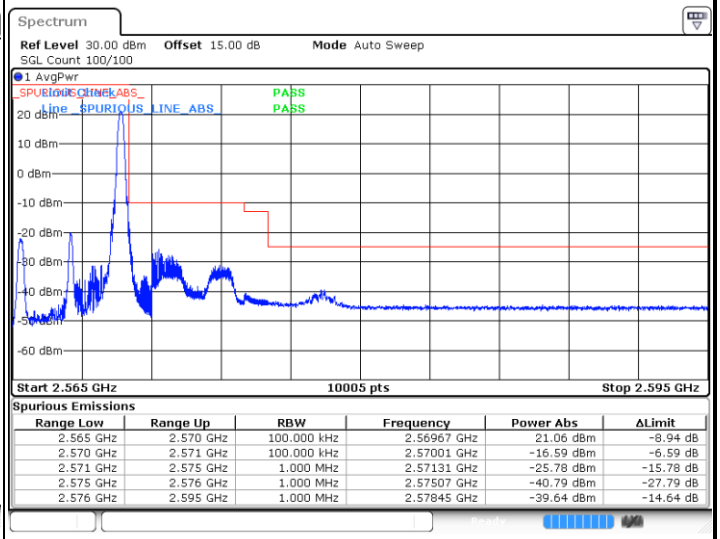


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49149 GHz	-34.70 dBm	-9.70 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49600 GHz	-33.79 dBm	-20.79 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49883 GHz	-28.33 dBm	-18.33 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-15.07 dBm	-5.07 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50034 GHz	20.90 dBm	-9.10 dB

Date: 24.APR.2025 12:43:15

Highest Band Edge / 1 RB

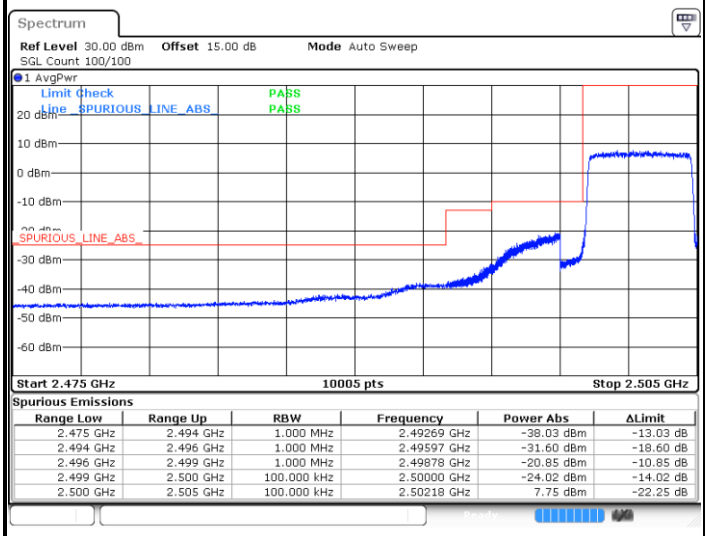


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56967 GHz	21.06 dBm	-8.94 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-16.59 dBm	-6.59 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57131 GHz	-25.78 dBm	-15.78 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57507 GHz	-40.79 dBm	-27.79 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57845 GHz	-39.64 dBm	-14.64 dB

Date: 24.APR.2025 12:52:17

Lowest Band Edge / Full RB

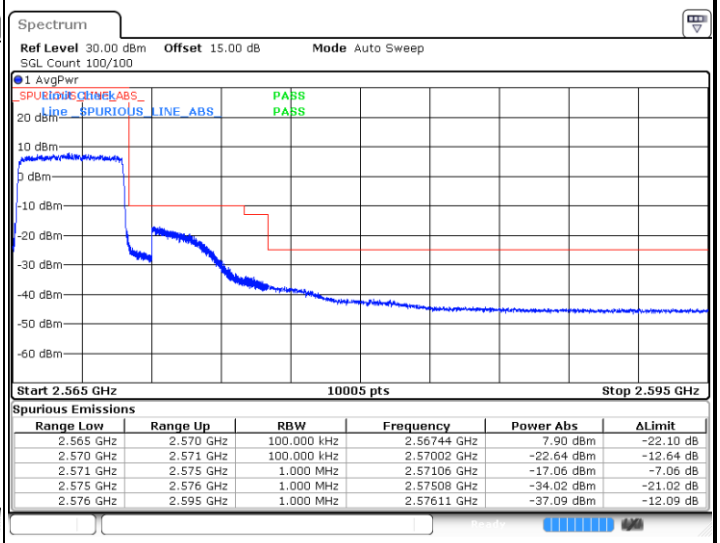


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49269 GHz	-38.03 dBm	-13.03 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-31.60 dBm	-18.60 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49878 GHz	-20.85 dBm	-10.85 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-24.02 dBm	-14.02 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50218 GHz	7.75 dBm	-22.25 dB

Date: 24.APR.2025 12:45:53

Highest Band Edge / Full RB



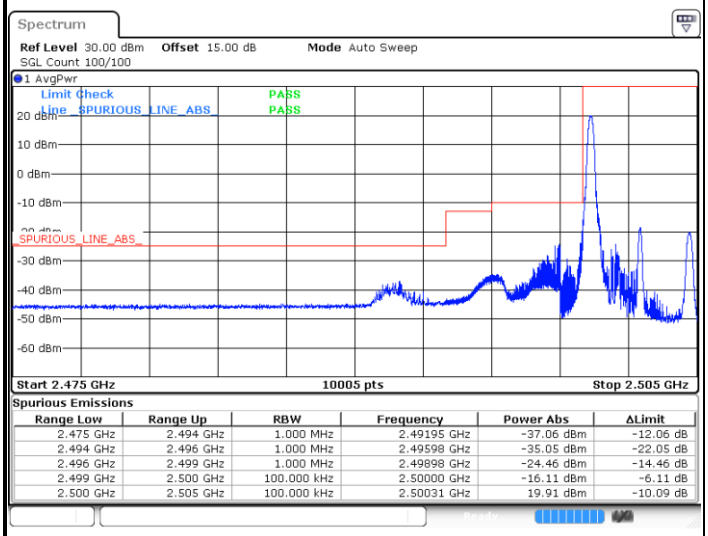
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56744 GHz	7.90 dBm	-22.10 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57002 GHz	-22.64 dBm	-12.64 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-17.06 dBm	-7.06 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57508 GHz	-34.02 dBm	-21.02 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57611 GHz	-37.09 dBm	-12.09 dB

Date: 24.APR.2025 12:54:54

LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

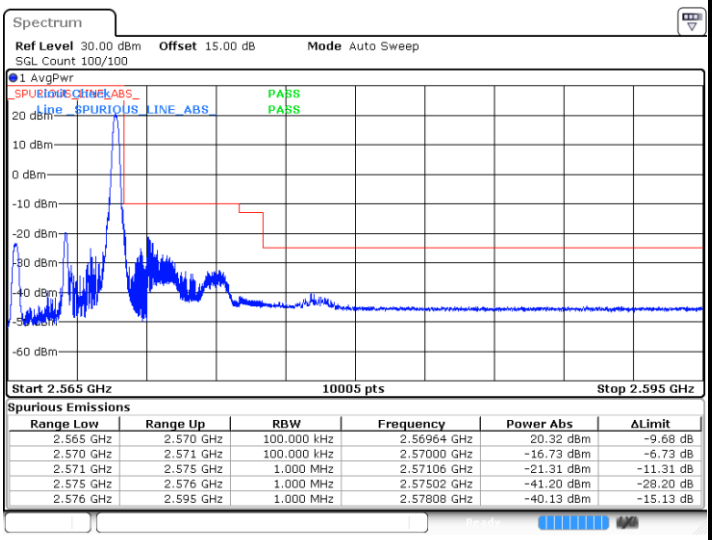


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49195 GHz	-37.06 dBm	-12.06 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49598 GHz	-35.05 dBm	-22.05 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-24.46 dBm	-14.46 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-16.11 dBm	-6.11 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50031 GHz	19.91 dBm	-10.09 dB

Date: 24.APR.2025 12:44:08

Highest Band Edge / 1 RB

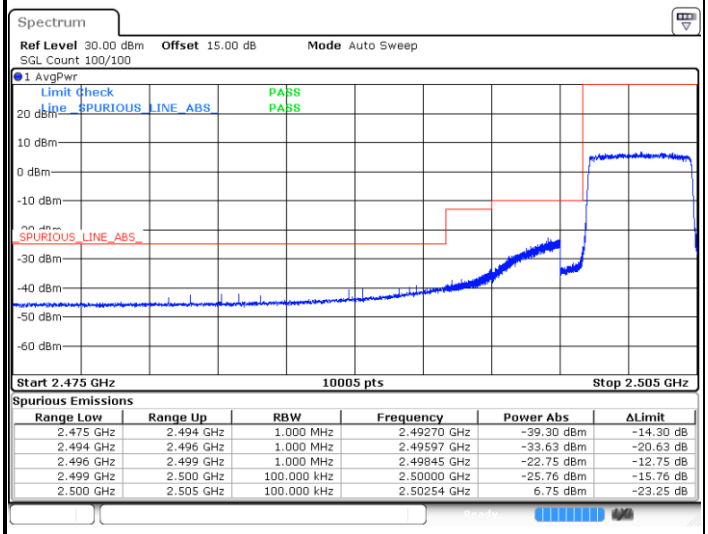


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56964 GHz	20.32 dBm	-9.68 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-16.73 dBm	-6.73 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-21.31 dBm	-11.31 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57502 GHz	-41.20 dBm	-28.20 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57808 GHz	-40.13 dBm	-15.13 dB

Date: 24.APR.2025 12:53:09

Lowest Band Edge / Full RB

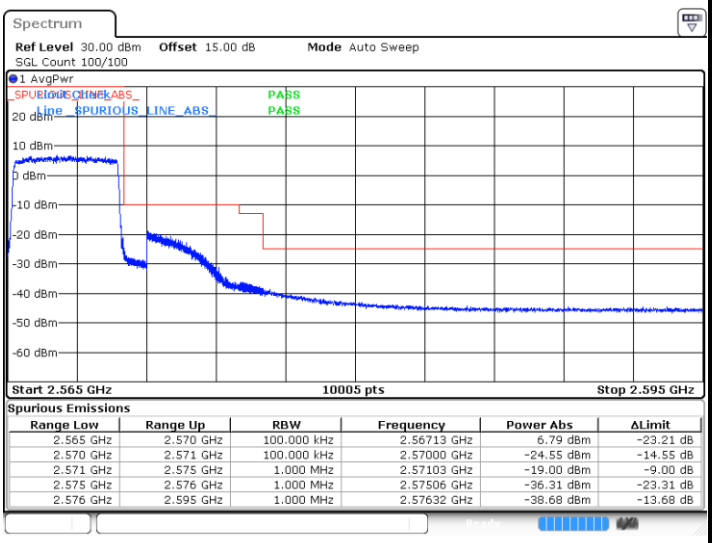


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49270 GHz	-39.30 dBm	-14.30 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49597 GHz	-33.63 dBm	-20.63 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49845 GHz	-22.75 dBm	-12.75 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-25.76 dBm	-15.76 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50254 GHz	6.75 dBm	-23.25 dB

Date: 24.APR.2025 12:46:46

Highest Band Edge / Full RB



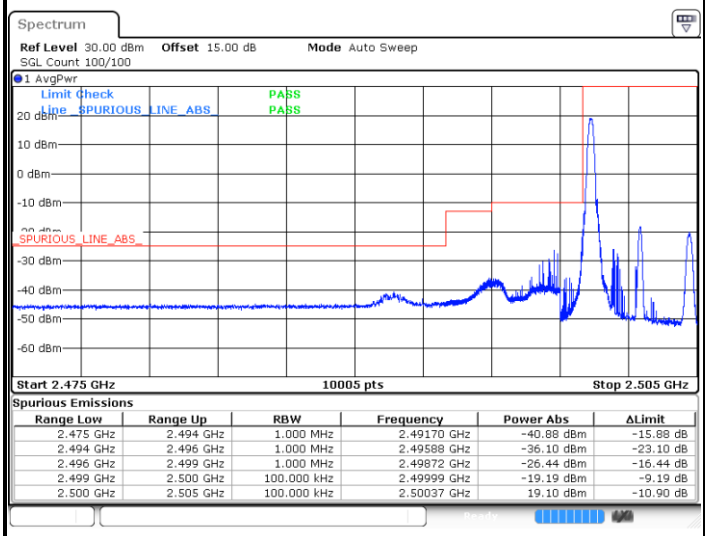
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56713 GHz	6.79 dBm	-23.21 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-24.55 dBm	-14.55 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-19.00 dBm	-9.00 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57506 GHz	-36.31 dBm	-23.31 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57632 GHz	-38.68 dBm	-13.68 dB

Date: 24.APR.2025 12:55:47

LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB

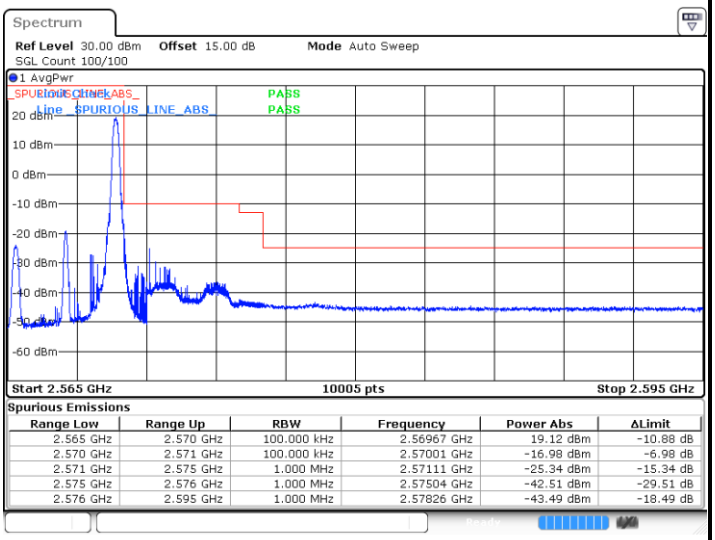


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49170 GHz	-40.88 dBm	-15.88 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49588 GHz	-36.10 dBm	-23.10 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49872 GHz	-26.44 dBm	-16.44 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-19.19 dBm	-9.19 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50037 GHz	19.10 dBm	-10.90 dB

Date: 24.APR.2025 12:45:01

Highest Band Edge / 1 RB

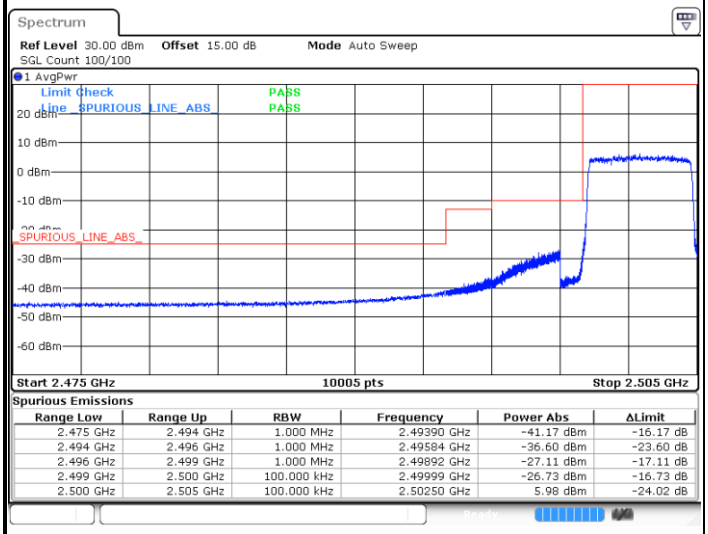


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56967 GHz	19.12 dBm	-10.88 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-16.98 dBm	-6.98 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57111 GHz	-25.34 dBm	-15.34 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57504 GHz	-42.51 dBm	-29.51 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57826 GHz	-43.49 dBm	-18.49 dB

Date: 24.APR.2025 12:54:02

Lowest Band Edge / Full RB

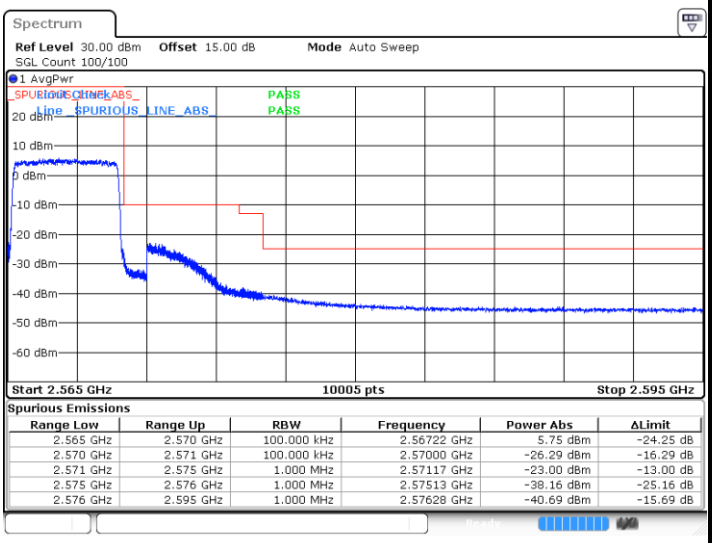


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49390 GHz	-41.17 dBm	-16.17 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49584 GHz	-36.60 dBm	-23.60 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49892 GHz	-27.11 dBm	-17.11 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-26.73 dBm	-16.73 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50250 GHz	5.98 dBm	-24.02 dB

Date: 24.APR.2025 12:47:39

Highest Band Edge / Full RB



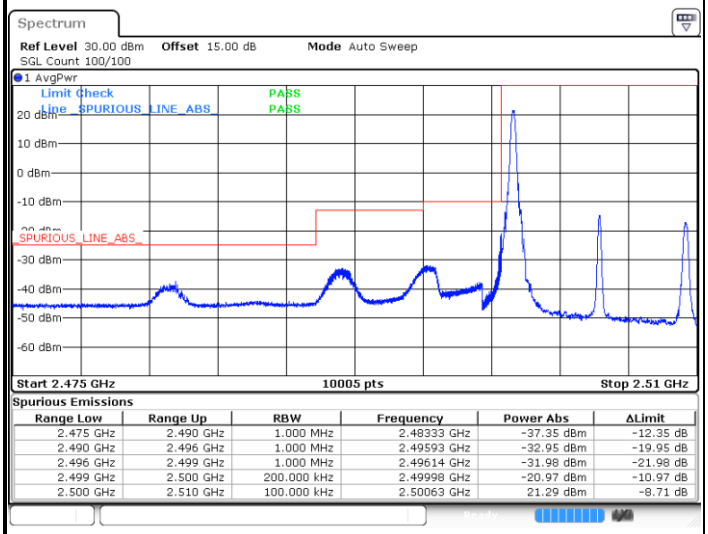
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56722 GHz	5.75 dBm	-24.25 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-26.29 dBm	-16.29 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57117 GHz	-23.00 dBm	-13.00 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57513 GHz	-38.16 dBm	-25.16 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57628 GHz	-40.69 dBm	-15.69 dB

Date: 24.APR.2025 12:56:39

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

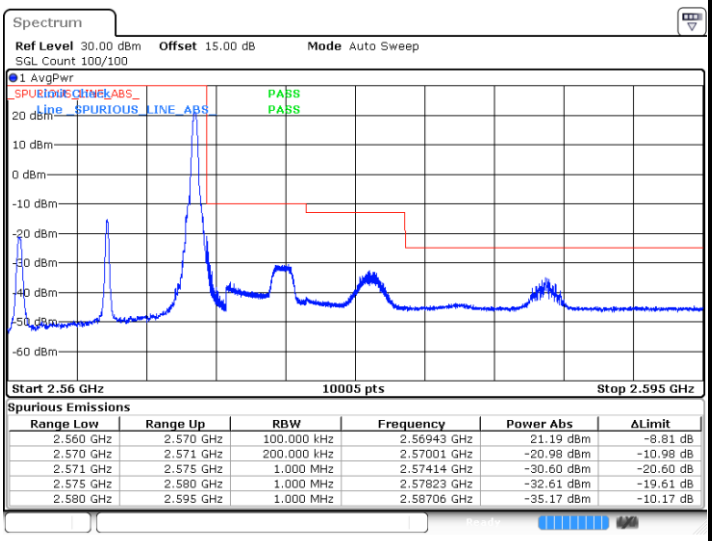


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48333 GHz	-37.35 dBm	-12.35 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49593 GHz	-32.95 dBm	-19.95 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49614 GHz	-31.98 dBm	-21.98 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49998 GHz	-20.97 dBm	-10.97 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50063 GHz	21.29 dBm	-8.71 dB

Date: 24.APR.2025 00:06:22

Highest Band Edge / 1 RB

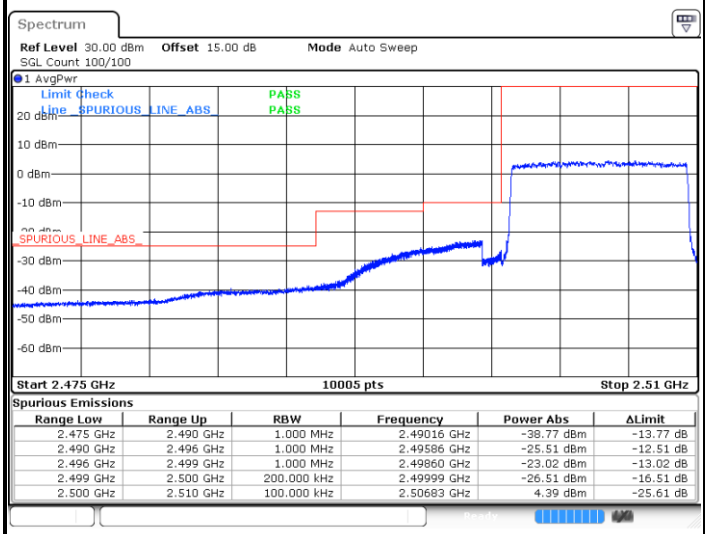


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56943 GHz	21.19 dBm	-8.81 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-20.98 dBm	-10.98 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57414 GHz	-30.60 dBm	-20.60 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57823 GHz	-32.61 dBm	-19.61 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58706 GHz	-35.17 dBm	-10.17 dB

Date: 24.APR.2025 00:17:39

Lowest Band Edge / Full RB

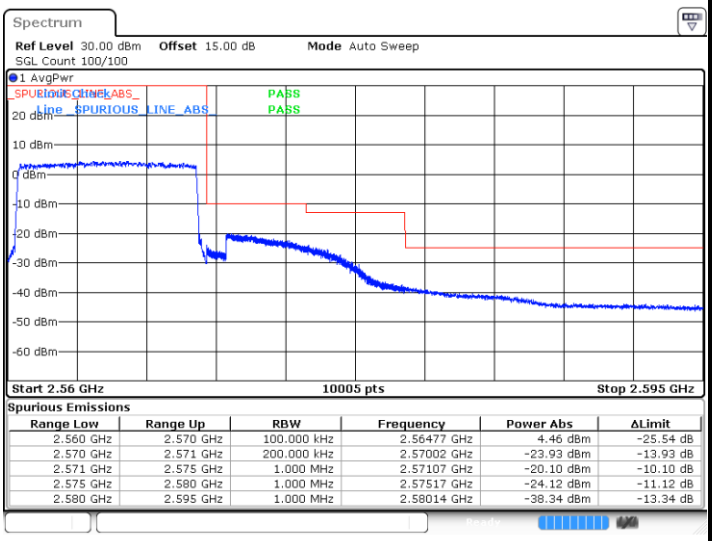


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49016 GHz	-38.77 dBm	-13.77 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49586 GHz	-25.51 dBm	-12.51 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49860 GHz	-23.02 dBm	-13.02 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-26.51 dBm	-16.51 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50683 GHz	4.39 dBm	-25.61 dB

Date: 24.APR.2025 00:10:07

Highest Band Edge / Full RB



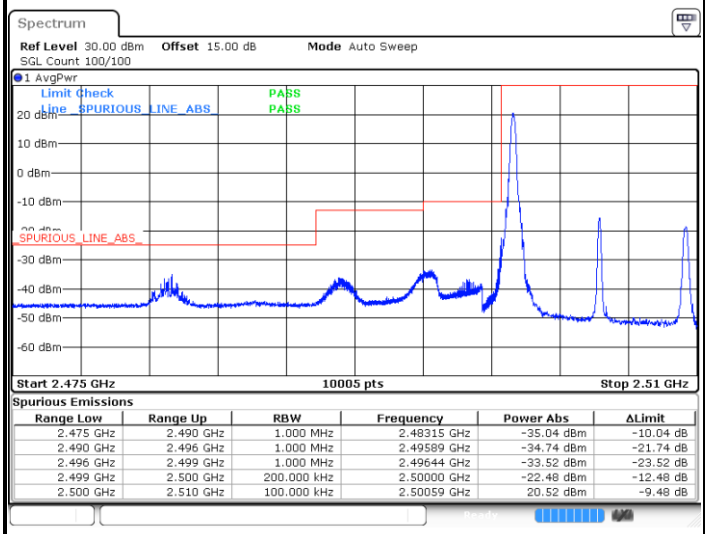
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56477 GHz	4.46 dBm	-25.54 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57002 GHz	-23.93 dBm	-13.93 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57107 GHz	-20.10 dBm	-10.10 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57517 GHz	-24.12 dBm	-11.12 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58014 GHz	-38.34 dBm	-13.34 dB

Date: 24.APR.2025 00:21:25

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB

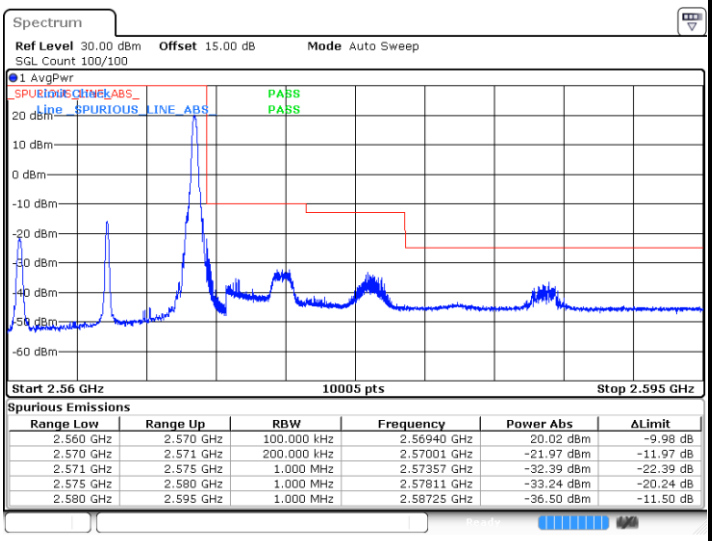


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48315 GHz	-35.04 dBm	-10.04 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49589 GHz	-34.74 dBm	-21.74 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49644 GHz	-33.52 dBm	-23.52 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-22.48 dBm	-12.48 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50059 GHz	20.52 dBm	-9.48 dB

Date: 24.APR.2025 00:07:37

Highest Band Edge / 1 RB

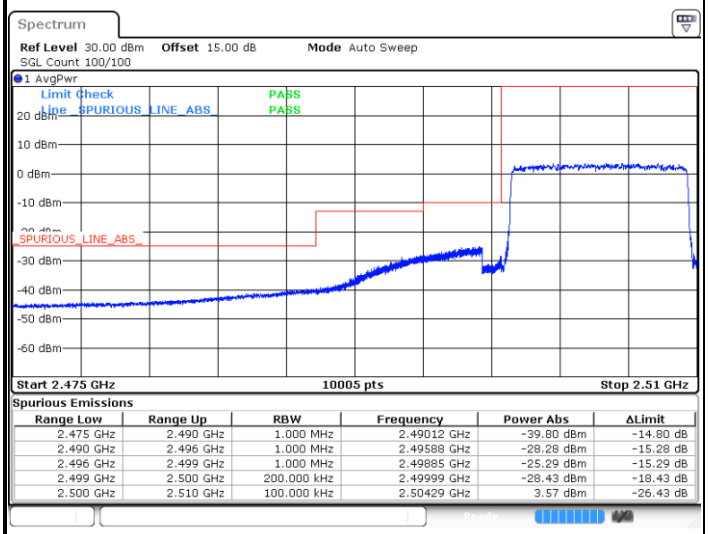


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56940 GHz	20.02 dBm	-9.98 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-21.97 dBm	-11.97 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57357 GHz	-32.39 dBm	-22.39 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57811 GHz	-33.24 dBm	-20.24 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58725 GHz	-36.50 dBm	-11.50 dB

Date: 24.APR.2025 00:18:55

Lowest Band Edge / Full RB

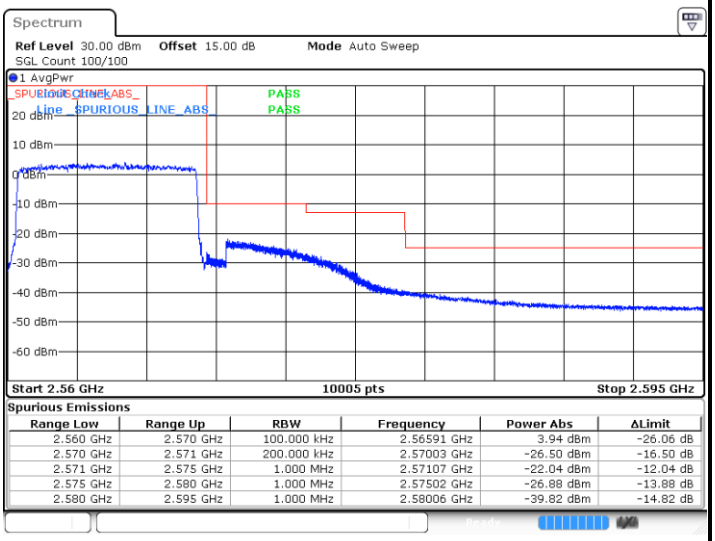


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49012 GHz	-39.80 dBm	-14.80 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49588 GHz	-28.28 dBm	-15.28 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49885 GHz	-25.29 dBm	-15.29 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-28.43 dBm	-18.43 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50429 GHz	3.57 dBm	-26.43 dB

Date: 24.APR.2025 00:11:22

Highest Band Edge / Full RB



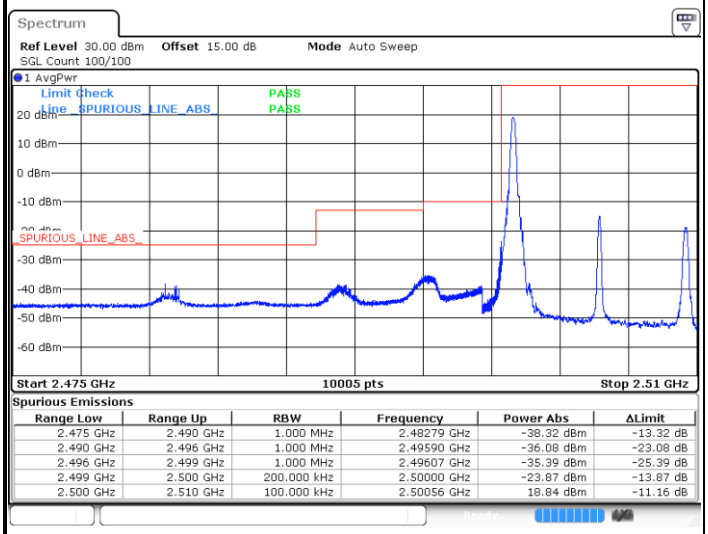
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56591 GHz	3.94 dBm	-26.06 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57003 GHz	-26.50 dBm	-16.50 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57107 GHz	-22.04 dBm	-12.04 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57502 GHz	-26.88 dBm	-13.88 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58006 GHz	-39.82 dBm	-14.82 dB

Date: 24.APR.2025 00:22:40

LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1RB

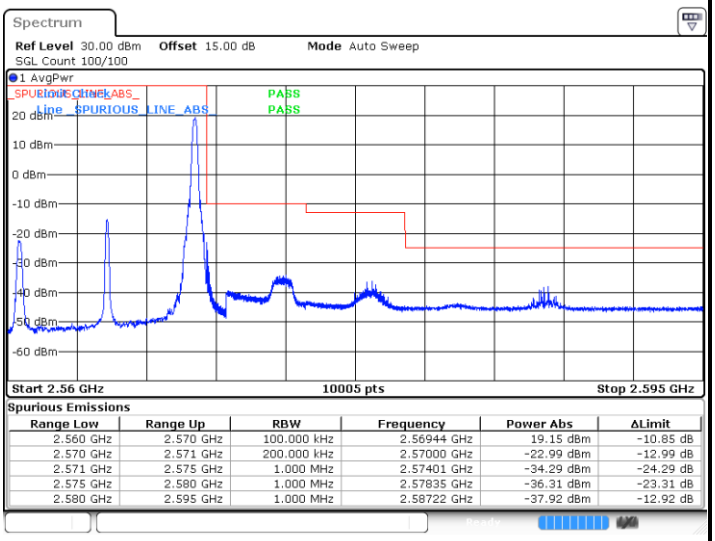


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48279 GHz	-38.32 dBm	-13.32 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49590 GHz	-36.08 dBm	-23.08 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49607 GHz	-35.39 dBm	-25.39 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-23.87 dBm	-13.87 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50056 GHz	18.84 dBm	-11.16 dB

Date: 24.APR.2025 00:08:52

Highest Band Edge / 1 RB

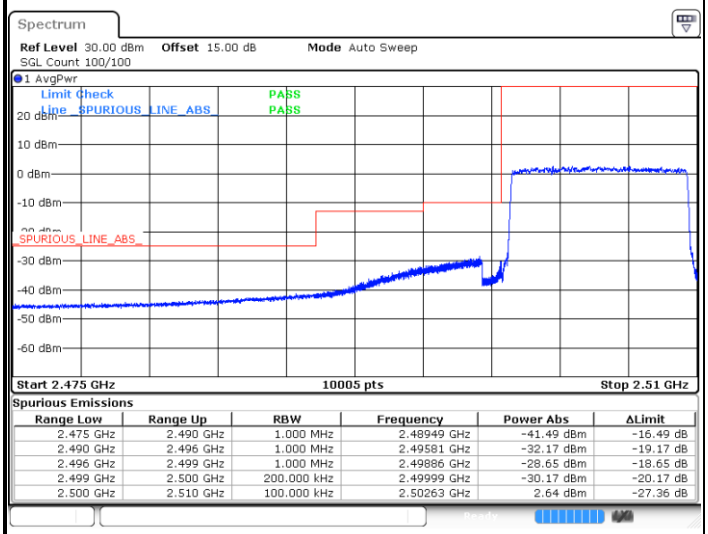


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56944 GHz	19.15 dBm	-10.85 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57000 GHz	-22.99 dBm	-12.99 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57401 GHz	-34.29 dBm	-24.29 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57835 GHz	-36.31 dBm	-23.31 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58722 GHz	-37.92 dBm	-12.92 dB

Date: 24.APR.2025 00:20:10

Lowest Band Edge / Full RB

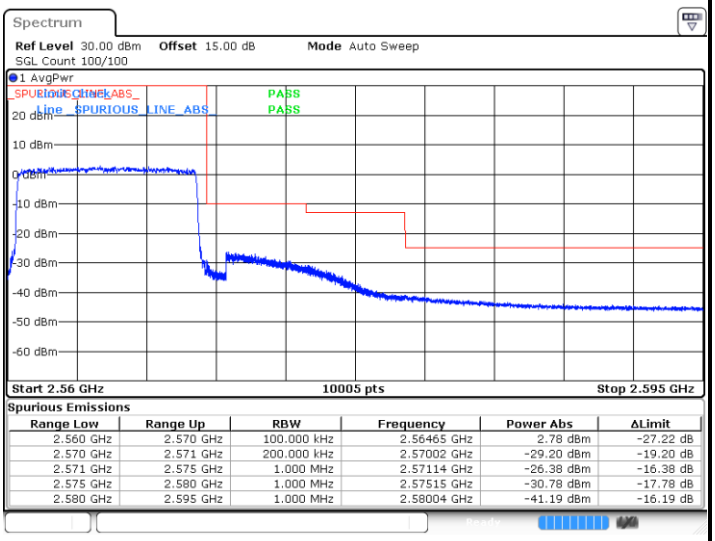


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48949 GHz	-41.49 dBm	-16.49 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49581 GHz	-32.17 dBm	-19.17 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49886 GHz	-28.65 dBm	-18.65 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-30.17 dBm	-20.17 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50263 GHz	2.64 dBm	-27.36 dB

Date: 24.APR.2025 00:12:38

Highest Band Edge / Full RB



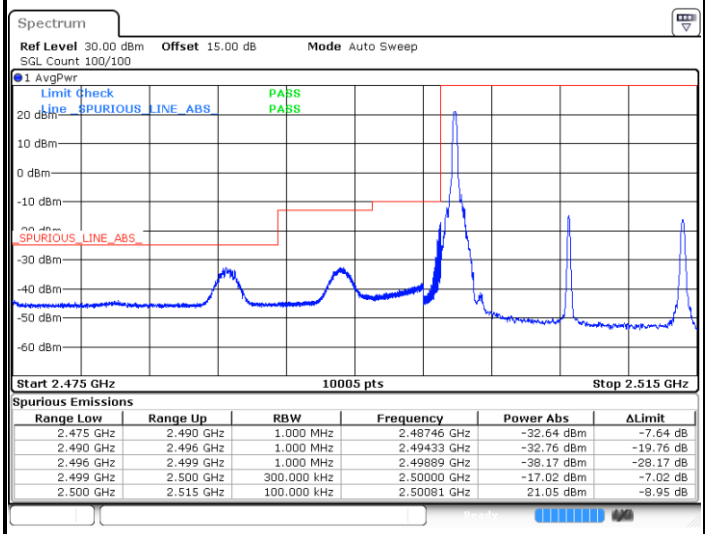
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56465 GHz	2.78 dBm	-27.22 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57002 GHz	-29.20 dBm	-19.20 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57114 GHz	-26.38 dBm	-16.38 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57515 GHz	-30.78 dBm	-17.78 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58004 GHz	-41.19 dBm	-16.19 dB

Date: 24.APR.2025 00:23:56

LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

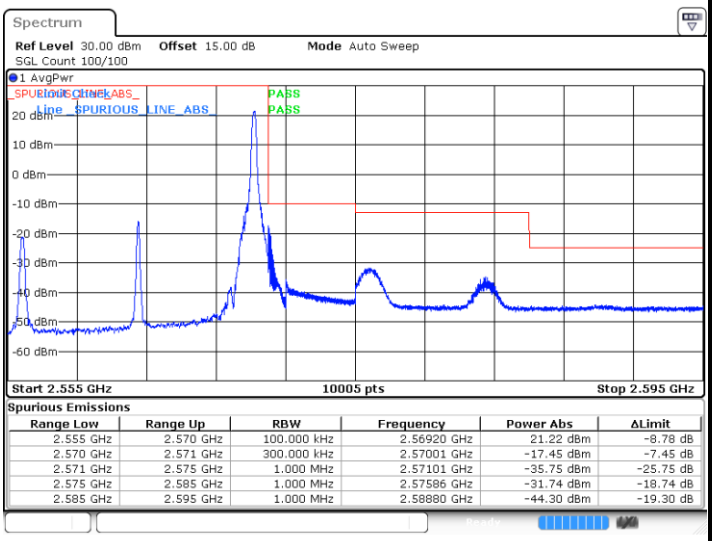


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48746 GHz	-32.64 dBm	-7.64 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49433 GHz	-32.76 dBm	-19.76 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49889 GHz	-38.17 dBm	-28.17 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.50000 GHz	-17.02 dBm	-7.02 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50081 GHz	21.05 dBm	-8.95 dB

Date: 24.APR.2025 00:27:08

Highest Band Edge / 1 RB

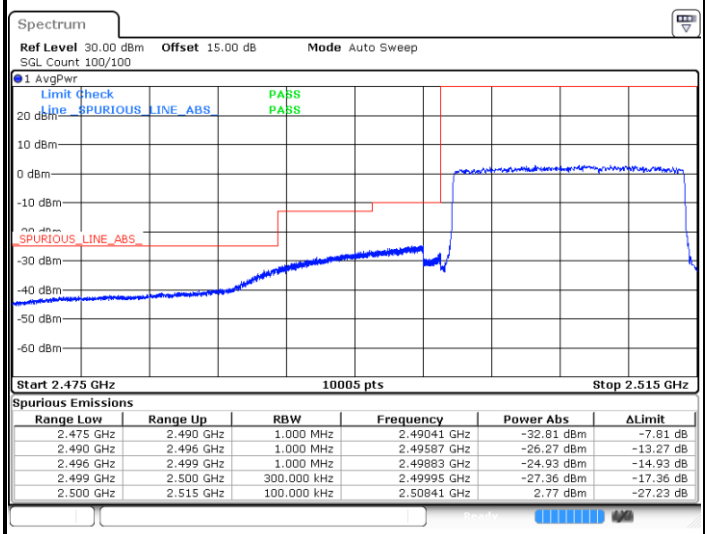


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56920 GHz	21.22 dBm	-8.78 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-17.45 dBm	-7.45 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-35.75 dBm	-25.75 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57586 GHz	-31.74 dBm	-18.74 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58880 GHz	-44.30 dBm	-19.30 dB

Date: 24.APR.2025 00:38:26

Lowest Band Edge / Full RB

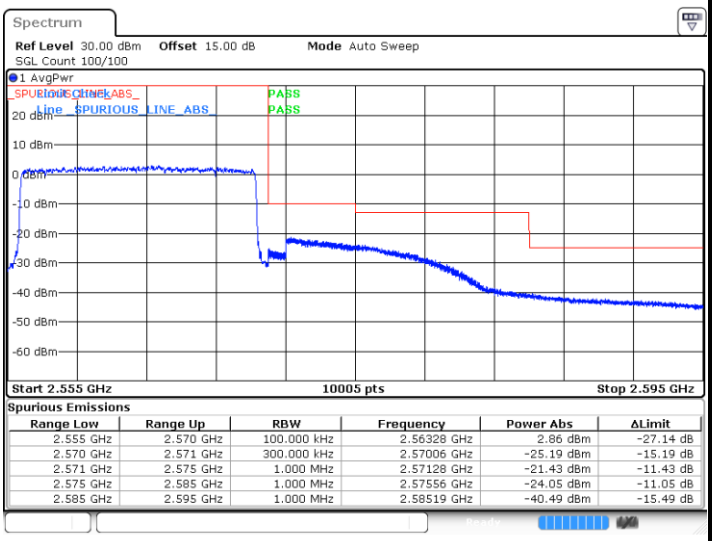


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49041 GHz	-32.81 dBm	-7.81 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49587 GHz	-26.27 dBm	-13.27 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49883 GHz	-24.93 dBm	-14.93 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49995 GHz	-27.36 dBm	-17.36 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50841 GHz	2.77 dBm	-27.23 dB

Date: 24.APR.2025 00:30:54

Highest Band Edge / Full RB



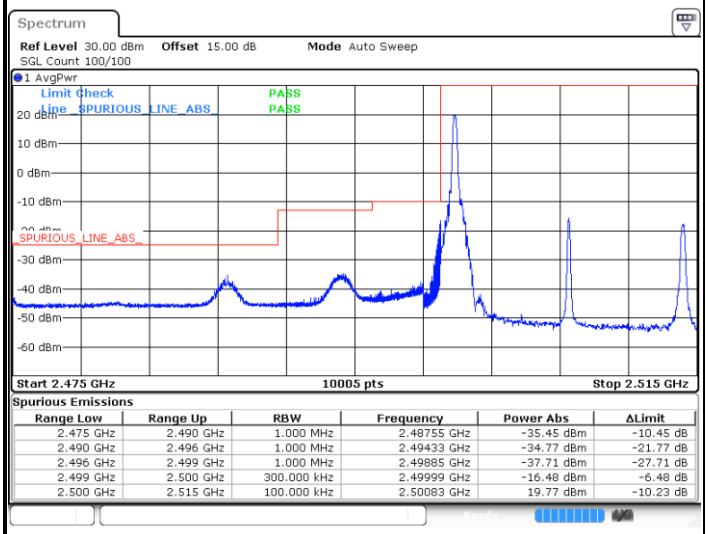
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56328 GHz	2.86 dBm	-27.14 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57006 GHz	-25.19 dBm	-15.19 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57128 GHz	-21.43 dBm	-11.43 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57556 GHz	-24.05 dBm	-11.05 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58519 GHz	-40.49 dBm	-15.49 dB

Date: 24.APR.2025 00:42:12

LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1RB

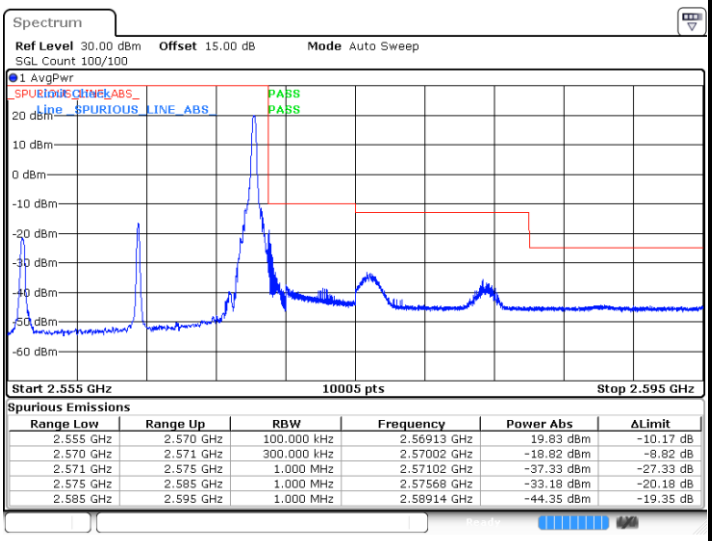


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48755 GHz	-35.45 dBm	-10.45 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49433 GHz	-34.77 dBm	-21.77 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49885 GHz	-37.71 dBm	-27.71 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49999 GHz	-16.48 dBm	-6.48 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50083 GHz	19.77 dBm	-10.23 dB

Date: 24.APR.2025 00:28:23

Highest Band Edge / 1 RB

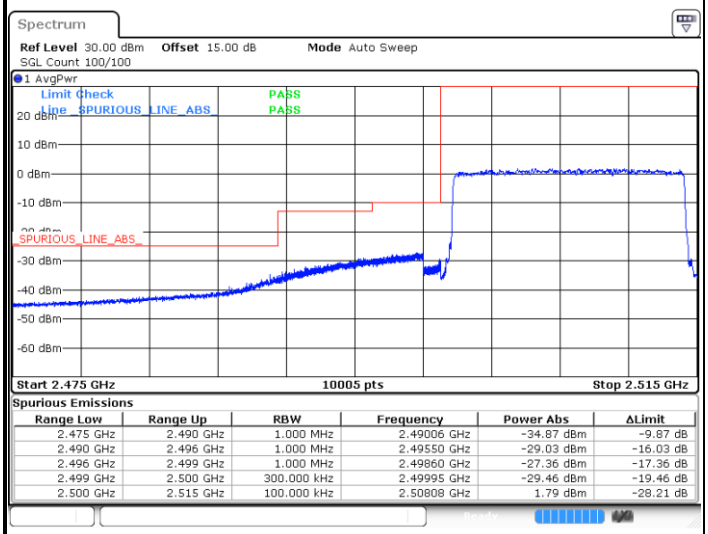


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56913 GHz	19.83 dBm	-10.17 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57002 GHz	-18.82 dBm	-8.82 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-37.33 dBm	-27.33 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57568 GHz	-33.18 dBm	-20.18 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58914 GHz	-44.35 dBm	-19.35 dB

Date: 24.APR.2025 00:39:42

Lowest Band Edge / Full RB

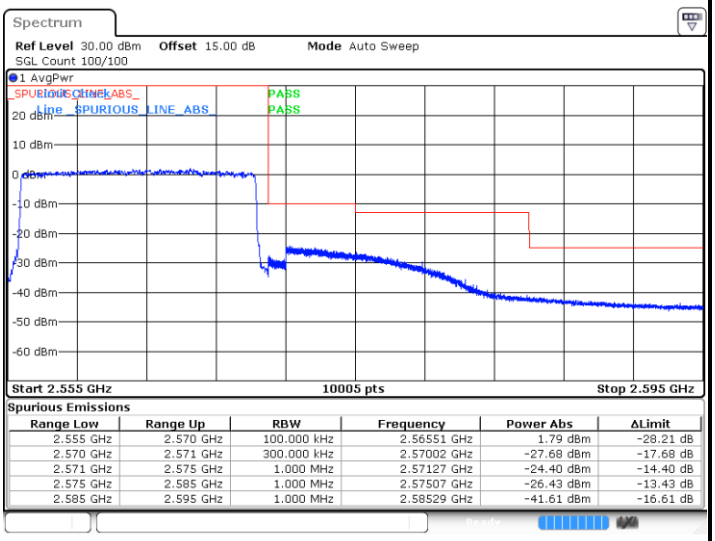


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49006 GHz	-34.87 dBm	-9.87 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49550 GHz	-29.03 dBm	-16.03 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49860 GHz	-27.36 dBm	-17.36 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49995 GHz	-29.46 dBm	-19.46 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50808 GHz	1.79 dBm	-28.21 dB

Date: 24.APR.2025 00:32:10

Highest Band Edge / Full RB



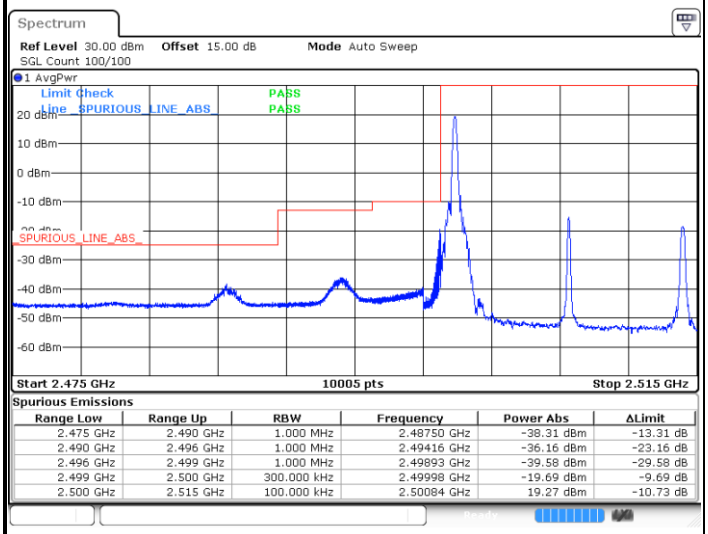
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56551 GHz	1.79 dBm	-28.21 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57002 GHz	-27.68 dBm	-17.68 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57127 GHz	-24.40 dBm	-14.40 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57507 GHz	-26.43 dBm	-13.43 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58529 GHz	-41.61 dBm	-16.61 dB

Date: 24.APR.2025 00:43:27

LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB

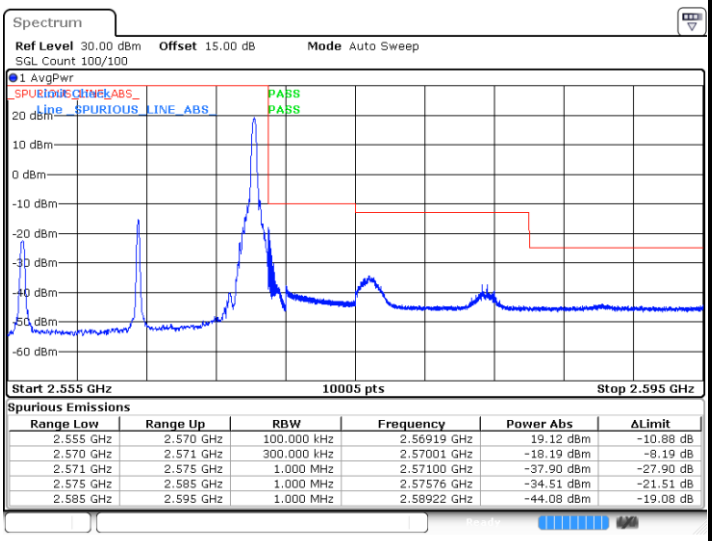


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48750 GHz	-38.31 dBm	-13.31 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49416 GHz	-36.16 dBm	-23.16 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49893 GHz	-39.58 dBm	-29.58 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49998 GHz	-19.69 dBm	-9.69 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50084 GHz	19.27 dBm	-10.73 dB

Date: 24.APR.2025 00:29:39

Highest Band Edge / 1 RB

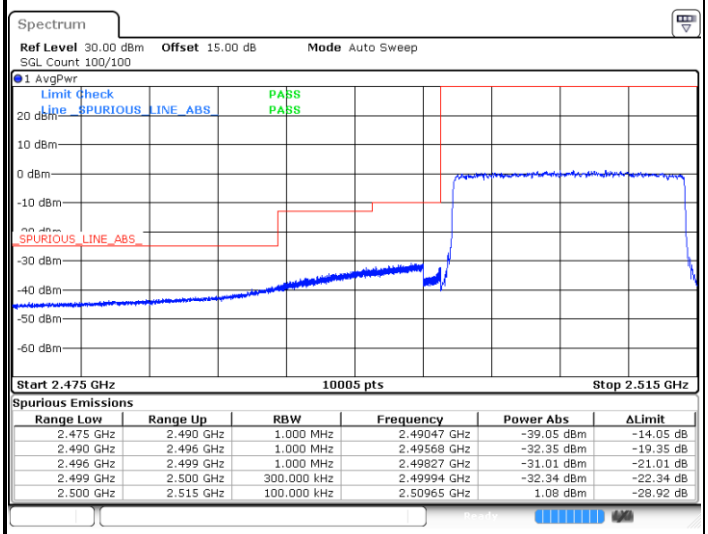


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56919 GHz	19.12 dBm	-10.88 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-18.19 dBm	-8.19 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57100 GHz	-37.90 dBm	-27.90 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57576 GHz	-34.51 dBm	-21.51 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58922 GHz	-44.08 dBm	-19.08 dB

Date: 24.APR.2025 00:40:57

Lowest Band Edge / Full RB

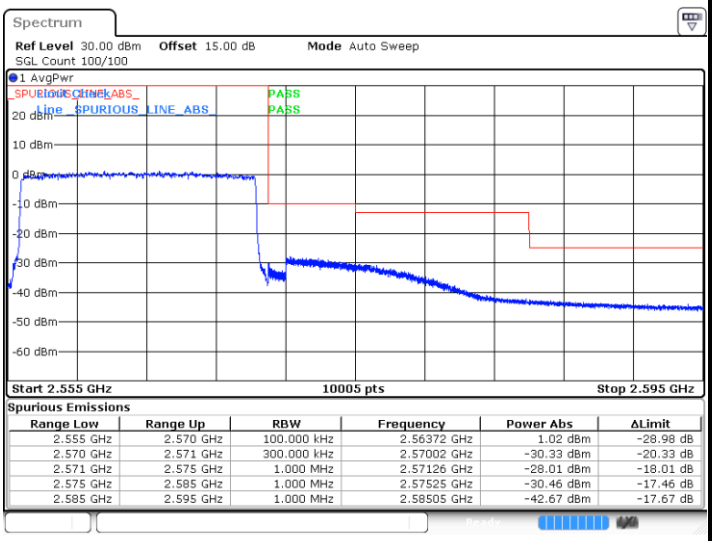


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49047 GHz	-39.05 dBm	-14.05 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49568 GHz	-32.35 dBm	-19.35 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49827 GHz	-31.01 dBm	-21.01 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49994 GHz	-32.34 dBm	-22.34 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50965 GHz	1.08 dBm	-28.92 dB

Date: 24.APR.2025 00:33:25

Highest Band Edge / Full RB



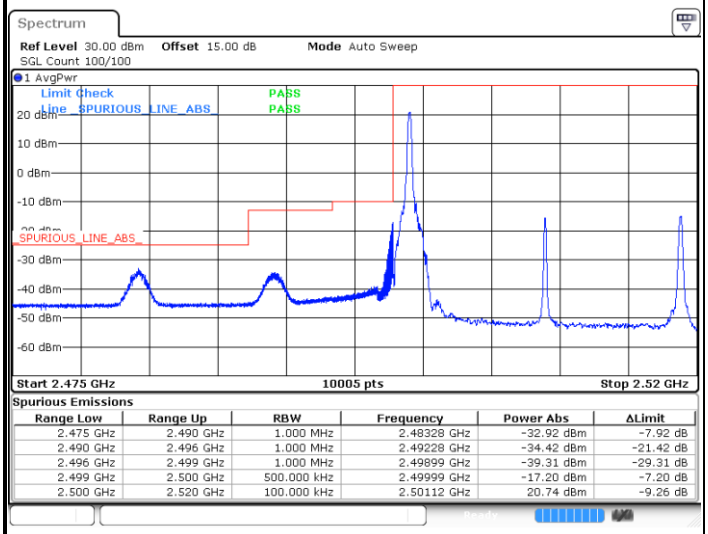
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56372 GHz	1.02 dBm	-28.98 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57002 GHz	-30.33 dBm	-20.33 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57126 GHz	-28.01 dBm	-18.01 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57525 GHz	-30.46 dBm	-17.46 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58505 GHz	-42.67 dBm	-17.67 dB

Date: 24.APR.2025 00:44:43

LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

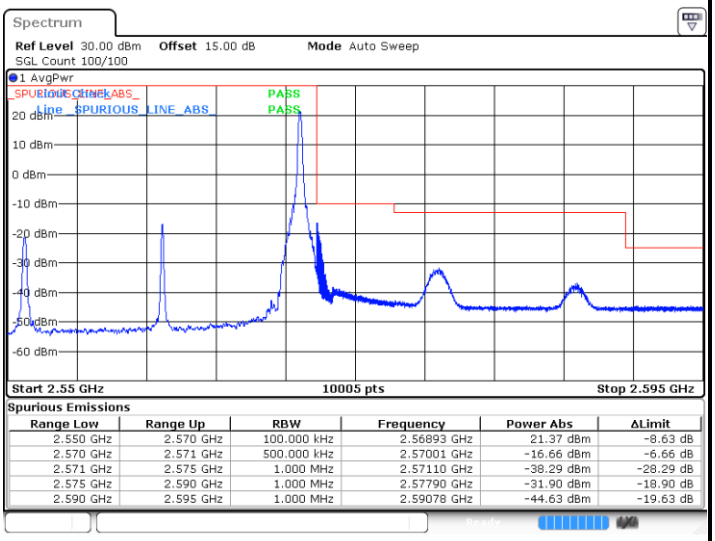


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48328 GHz	-32.92 dBm	-7.92 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49228 GHz	-34.42 dBm	-21.42 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-39.31 dBm	-29.31 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49999 GHz	-17.20 dBm	-7.20 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50112 GHz	20.74 dBm	-9.26 dB

Date: 24.APR.2025 00:47:55

Highest Band Edge / 1 RB

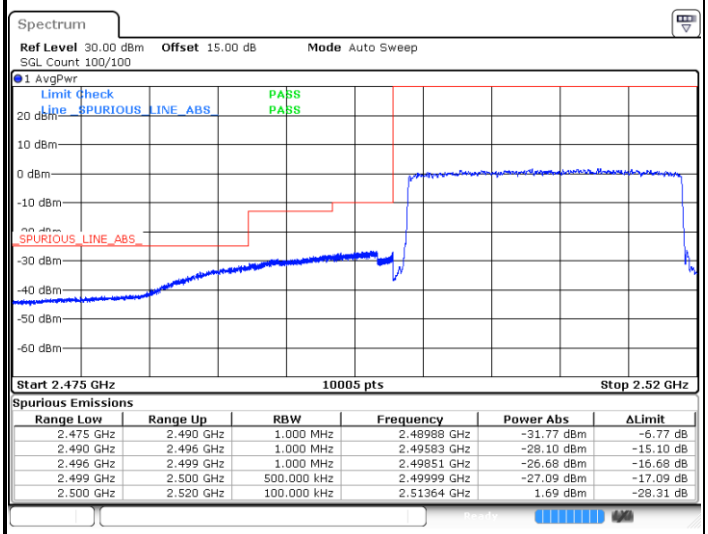


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56893 GHz	21.37 dBm	-8.63 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-16.66 dBm	-6.66 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57110 GHz	-38.29 dBm	-28.29 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57790 GHz	-31.90 dBm	-18.90 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59078 GHz	-44.63 dBm	-19.63 dB

Date: 24.APR.2025 01:00:33

Lowest Band Edge / Full RB

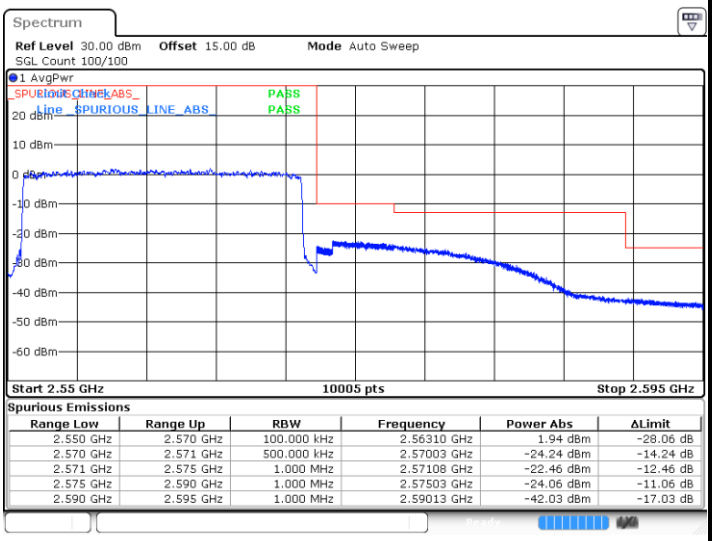


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48988 GHz	-31.77 dBm	-6.77 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49583 GHz	-28.10 dBm	-15.10 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49851 GHz	-26.68 dBm	-16.68 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49999 GHz	-27.09 dBm	-17.09 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51364 GHz	1.69 dBm	-28.31 dB

Date: 24.APR.2025 00:51:42

Highest Band Edge / Full RB



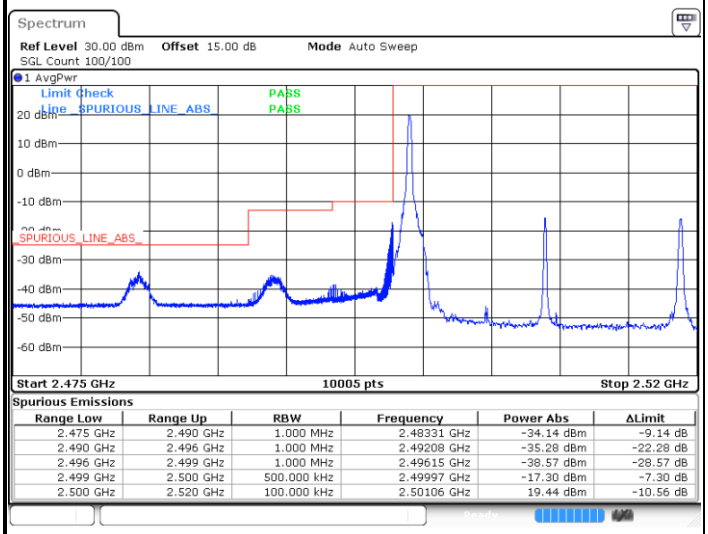
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56310 GHz	1.94 dBm	-28.06 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57003 GHz	-24.24 dBm	-14.24 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57108 GHz	-22.46 dBm	-12.46 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57503 GHz	-24.06 dBm	-11.06 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59013 GHz	-42.03 dBm	-17.03 dB

Date: 24.APR.2025 01:04:19

LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB

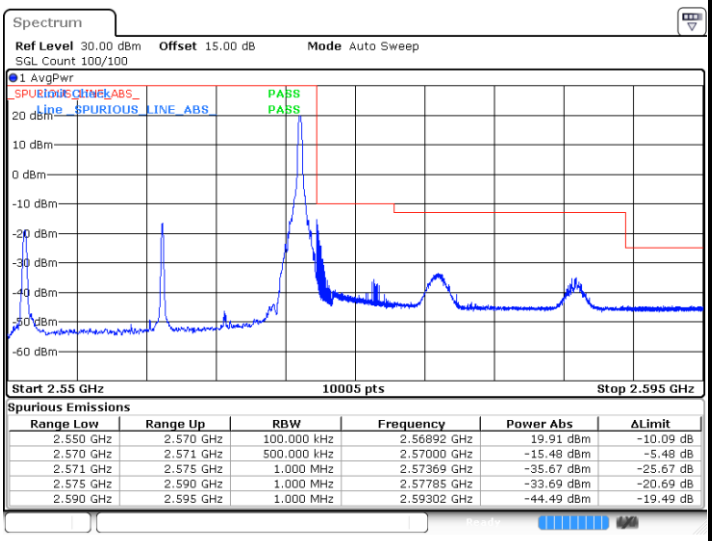


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48331 GHz	-34.14 dBm	-9.14 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49208 GHz	-35.28 dBm	-22.28 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49615 GHz	-38.57 dBm	-28.57 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49997 GHz	-17.30 dBm	-7.30 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50106 GHz	19.44 dBm	-10.56 dB

Date: 24.APR.2025 00:49:10

Highest Band Edge / 1 RB

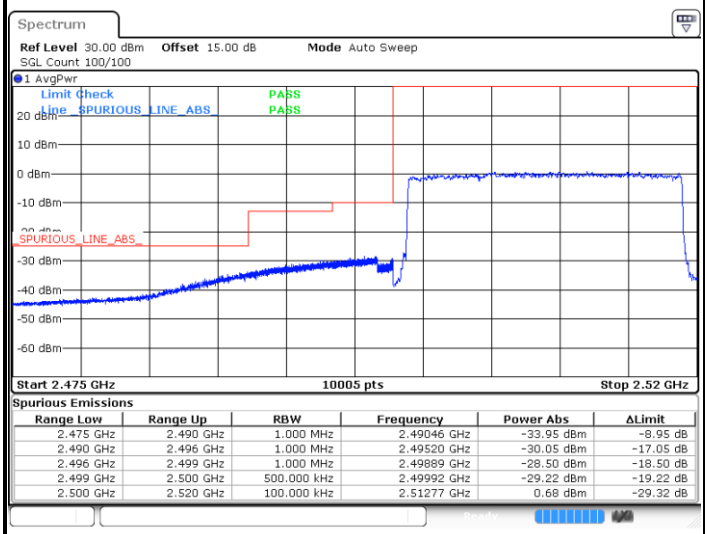


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56892 GHz	19.91 dBm	-10.09 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57000 GHz	-15.48 dBm	-5.48 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57369 GHz	-35.67 dBm	-25.67 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57785 GHz	-33.69 dBm	-20.69 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59302 GHz	-44.49 dBm	-19.49 dB

Date: 24.APR.2025 01:01:48

Lowest Band Edge / Full RB

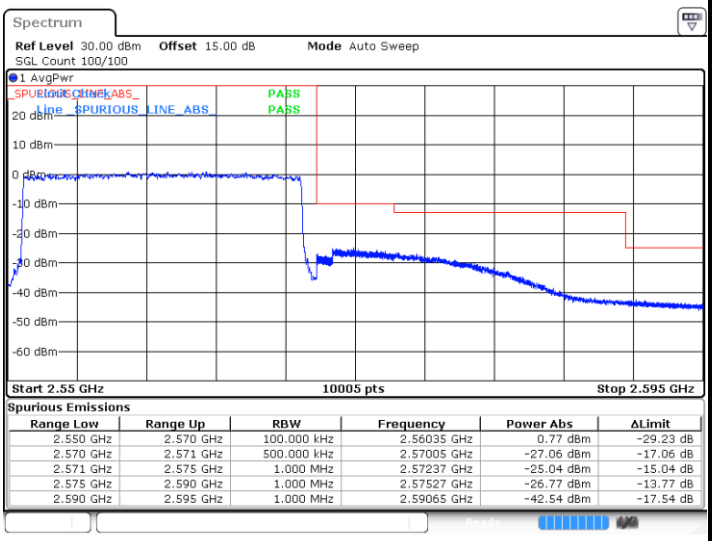


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49046 GHz	-33.95 dBm	-8.95 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49520 GHz	-30.05 dBm	-17.05 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49889 GHz	-28.50 dBm	-18.50 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49992 GHz	-29.22 dBm	-19.22 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51277 GHz	0.68 dBm	-29.32 dB

Date: 24.APR.2025 00:52:57

Highest Band Edge / Full RB



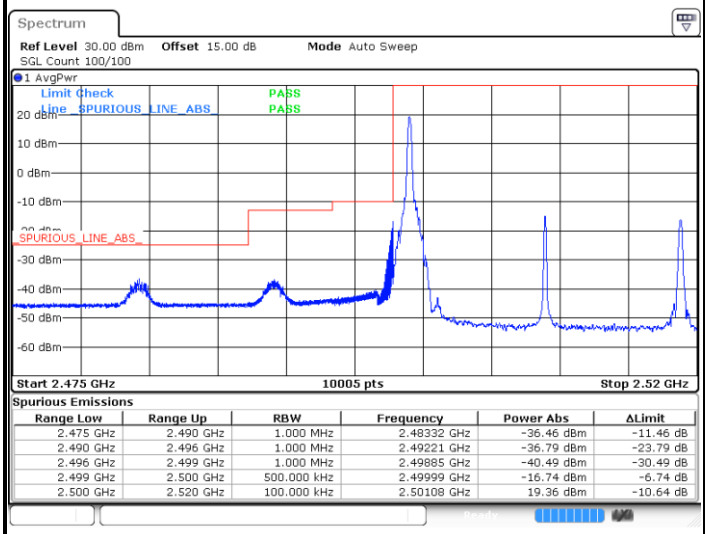
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56035 GHz	0.77 dBm	-29.23 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57005 GHz	-27.06 dBm	-17.06 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57237 GHz	-25.04 dBm	-15.04 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57527 GHz	-26.77 dBm	-13.77 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59065 GHz	-42.54 dBm	-17.54 dB

Date: 24.APR.2025 01:05:34

LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1RB

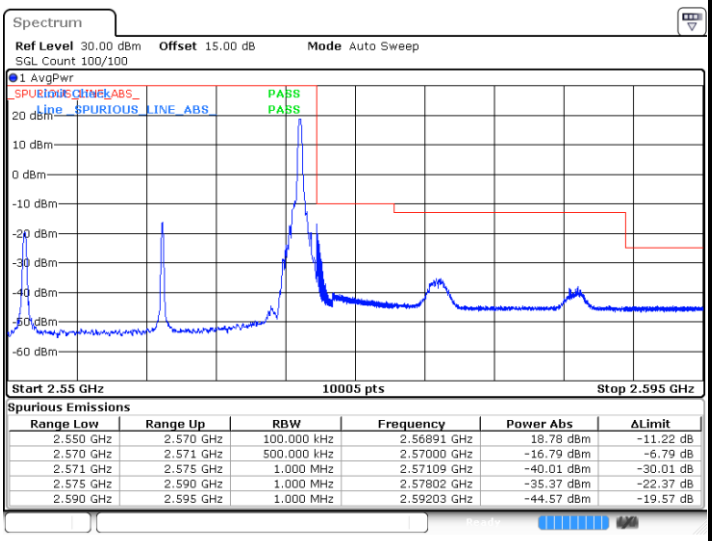


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48332 GHz	-36.46 dBm	-11.46 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49221 GHz	-36.79 dBm	-23.79 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49885 GHz	-40.49 dBm	-30.49 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49999 GHz	-16.74 dBm	-6.74 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50108 GHz	19.36 dBm	-10.64 dB

Date: 24.APR.2025 00:50:26

Highest Band Edge / 1 RB

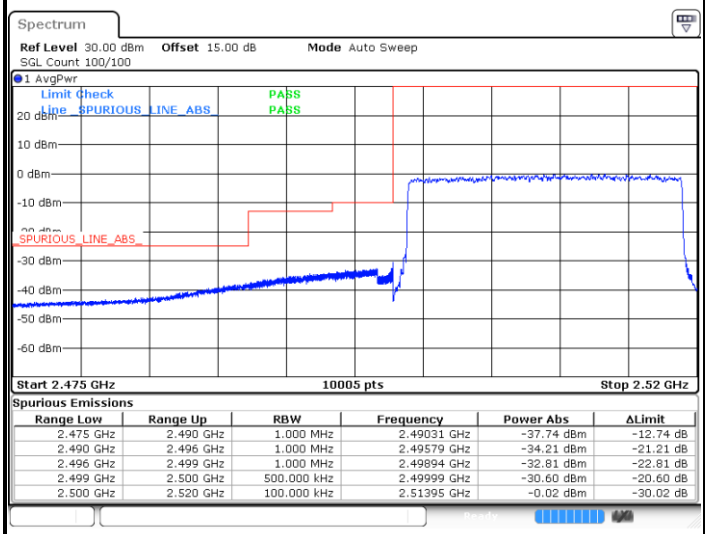


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56891 GHz	18.78 dBm	-11.22 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57000 GHz	-16.79 dBm	-6.79 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57109 GHz	-40.01 dBm	-30.01 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57802 GHz	-35.37 dBm	-22.37 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59203 GHz	-44.57 dBm	-19.57 dB

Date: 24.APR.2025 01:03:03

Lowest Band Edge / Full RB

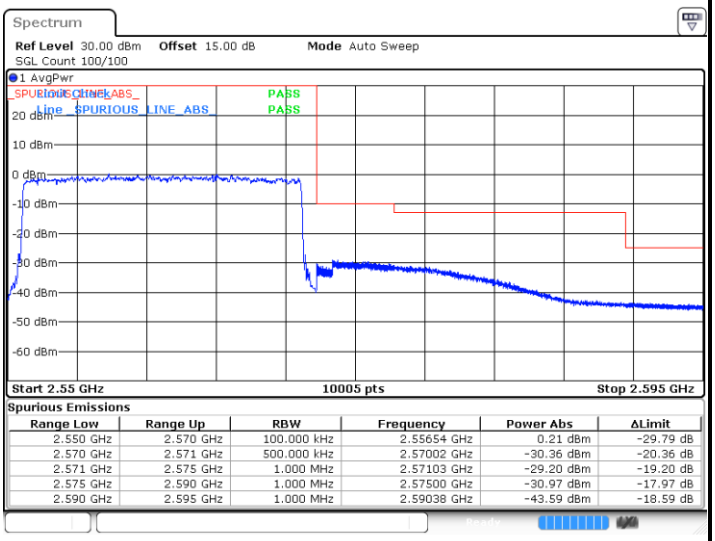


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49031 GHz	-37.74 dBm	-12.74 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49579 GHz	-34.21 dBm	-21.21 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49894 GHz	-32.81 dBm	-22.81 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49999 GHz	-30.60 dBm	-20.60 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51395 GHz	-0.02 dBm	-30.02 dB

Date: 24.APR.2025 00:54:12

Highest Band Edge / Full RB



Spurious Emissions

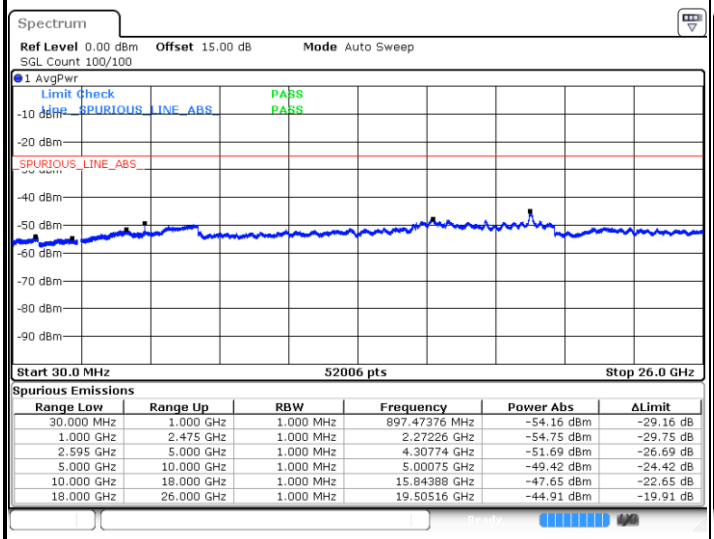
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.55654 GHz	0.21 dBm	-29.79 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57002 GHz	-30.36 dBm	-20.36 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57103 GHz	-29.20 dBm	-19.20 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57500 GHz	-30.97 dBm	-17.97 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59038 GHz	-43.59 dBm	-18.59 dB

Date: 24.APR.2025 01:06:49

Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

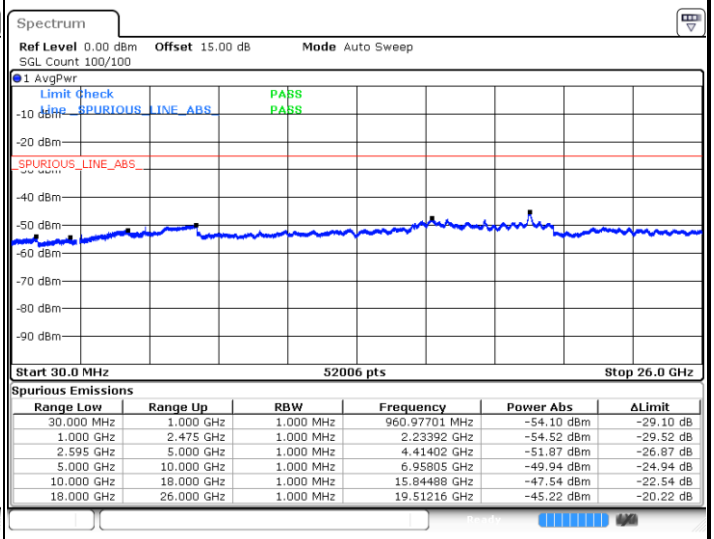


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	897.47376 MHz	-54.16 dBm	-29.16 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.27226 GHz	-54.75 dBm	-29.75 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.30774 GHz	-51.69 dBm	-26.69 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00075 GHz	-49.42 dBm	-24.42 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.84388 GHz	-47.65 dBm	-22.65 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.50516 GHz	-44.91 dBm	-19.91 dB

Date: 24.APR.2025 12:48:53

Middle Channel / QPSK

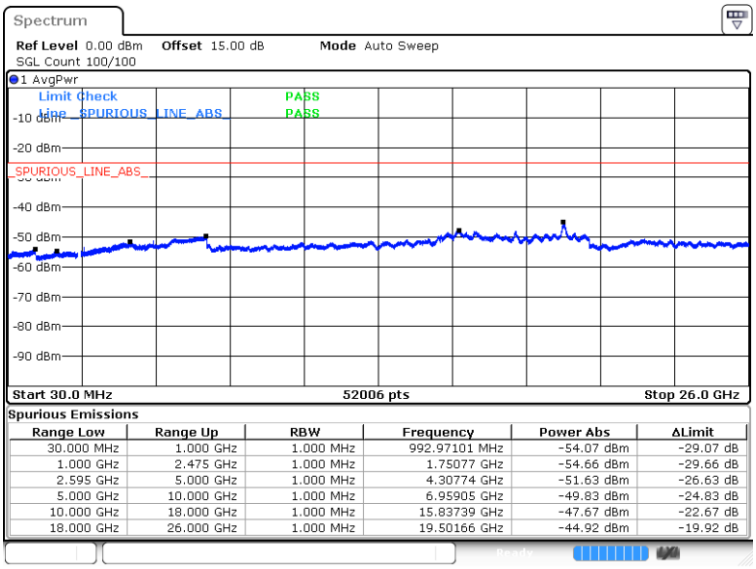


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	960.97701 MHz	-54.10 dBm	-29.10 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.23392 GHz	-54.52 dBm	-29.52 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.41402 GHz	-51.87 dBm	-26.87 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.95805 GHz	-49.94 dBm	-24.94 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.84488 GHz	-47.54 dBm	-22.54 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51216 GHz	-45.22 dBm	-20.22 dB

Date: 24.APR.2025 12:50:06

Highest Channel / QPSK



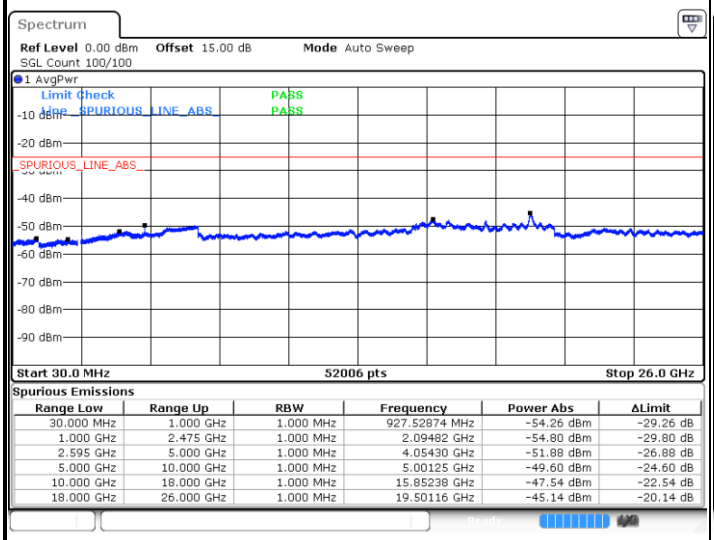
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.97101 MHz	-54.07 dBm	-29.07 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.75077 GHz	-54.66 dBm	-29.66 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.30774 GHz	-51.63 dBm	-26.63 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.95905 GHz	-49.83 dBm	-24.83 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.83739 GHz	-47.67 dBm	-22.67 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.50166 GHz	-44.92 dBm	-19.92 dB

Date: 24.APR.2025 12:57:53

LTE Band 7 / 10MHz

Lowest Channel / QPSK

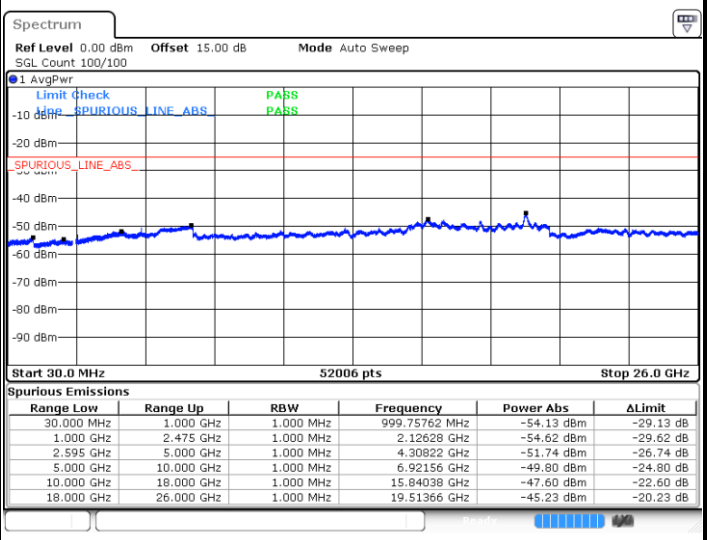


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.52874 MHz	-54.26 dBm	-29.26 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.09482 GHz	-54.80 dBm	-29.80 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.05430 GHz	-51.88 dBm	-26.88 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00125 GHz	-49.60 dBm	-24.60 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.85238 GHz	-47.54 dBm	-22.54 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.50116 GHz	-45.14 dBm	-20.14 dB

Date: 24.APR.2025 00:13:52

Middle Channel / QPSK

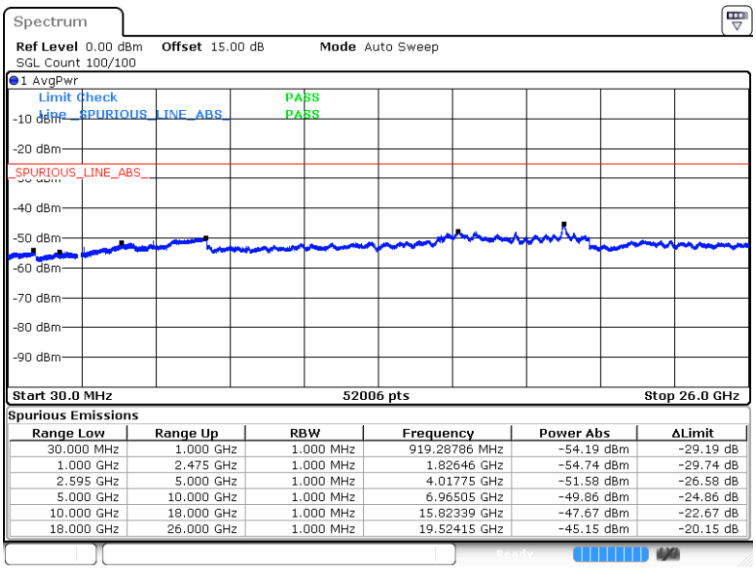


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	999.75762 MHz	-54.13 dBm	-29.13 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.12628 GHz	-54.62 dBm	-29.62 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.30822 GHz	-51.74 dBm	-26.74 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92156 GHz	-49.80 dBm	-24.80 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.84038 GHz	-47.60 dBm	-22.60 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51366 GHz	-45.23 dBm	-20.23 dB

Date: 24.APR.2025 00:15:06

Highest Channel / QPSK



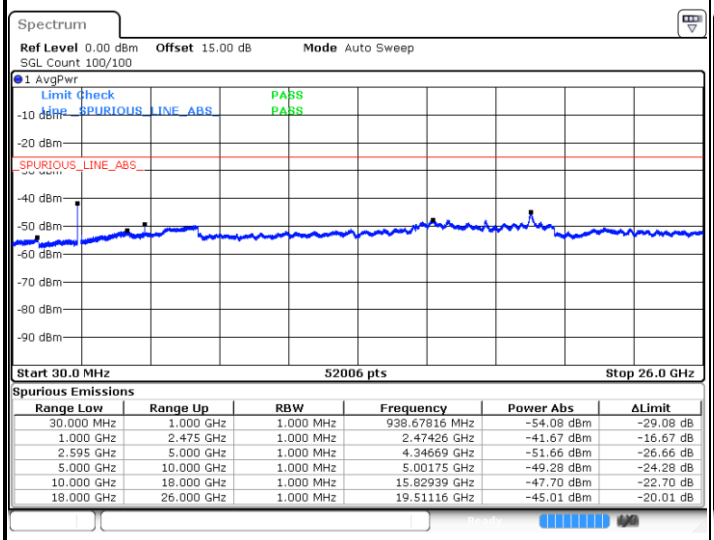
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	919.28786 MHz	-54.19 dBm	-29.19 dB
1.000 GHz	2.475 GHz	1.000 MHz	1.82646 GHz	-54.74 dBm	-29.74 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.01775 GHz	-51.58 dBm	-26.58 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.96505 GHz	-49.86 dBm	-24.86 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.82339 GHz	-47.67 dBm	-22.67 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.52415 GHz	-45.15 dBm	-20.15 dB

Date: 24.APR.2025 00:25:10

LTE Band 7 / 15MHz

Lowest Channel / QPSK

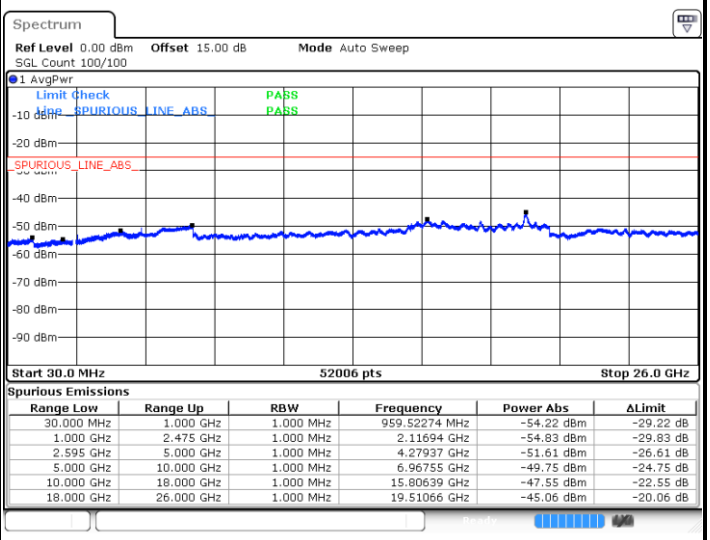


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	938.67816 MHz	-54.08 dBm	-29.08 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47426 GHz	-41.67 dBm	-16.67 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.34669 GHz	-51.66 dBm	-26.66 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00175 GHz	-49.28 dBm	-24.28 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.82939 GHz	-47.70 dBm	-22.70 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51116 GHz	-45.01 dBm	-20.01 dB

Date: 24.APR.2025 00:34:39

Middle Channel / QPSK

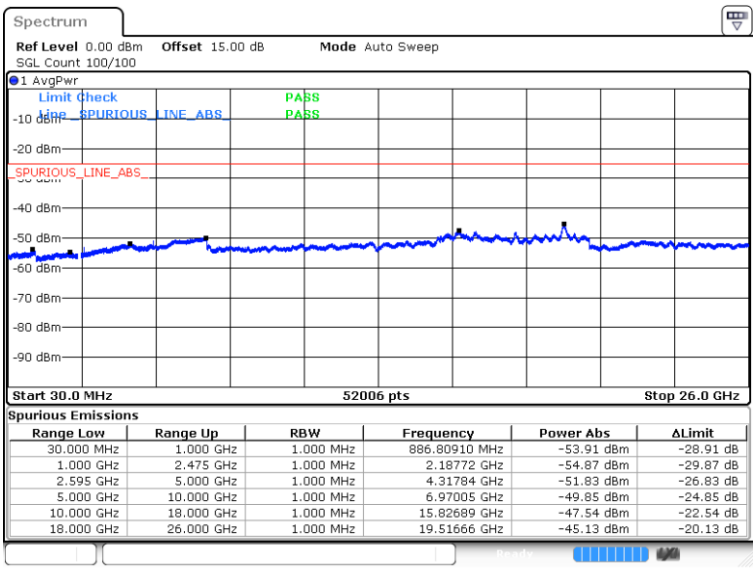


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	959.52274 MHz	-54.22 dBm	-29.22 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.11694 GHz	-54.83 dBm	-29.83 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.27937 GHz	-51.61 dBm	-26.61 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.96755 GHz	-49.75 dBm	-24.75 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.80639 GHz	-47.55 dBm	-22.55 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51066 GHz	-45.06 dBm	-20.06 dB

Date: 24.APR.2025 00:35:53

Highest Channel / QPSK



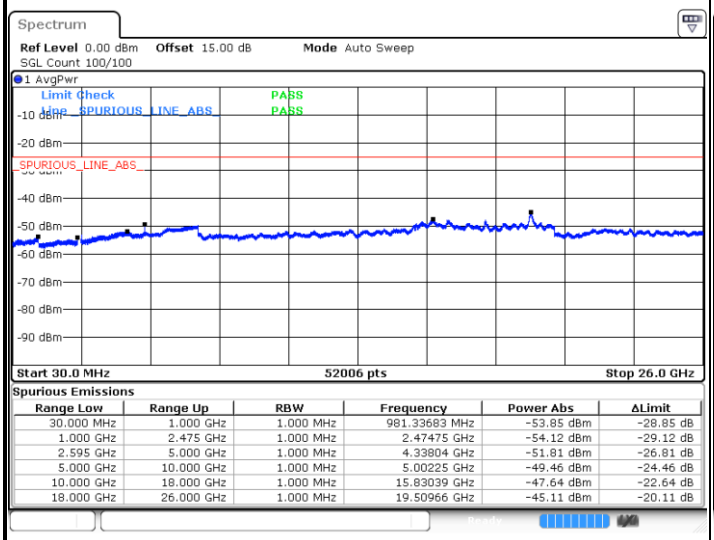
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	886.80910 MHz	-53.91 dBm	-28.91 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.18772 GHz	-54.87 dBm	-29.87 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.31784 GHz	-51.83 dBm	-26.83 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.97005 GHz	-49.85 dBm	-24.85 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.82689 GHz	-47.54 dBm	-22.54 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51666 GHz	-45.13 dBm	-20.13 dB

Date: 24.APR.2025 00:45:57

LTE Band 7 / 20MHz

Lowest Channel / QPSK

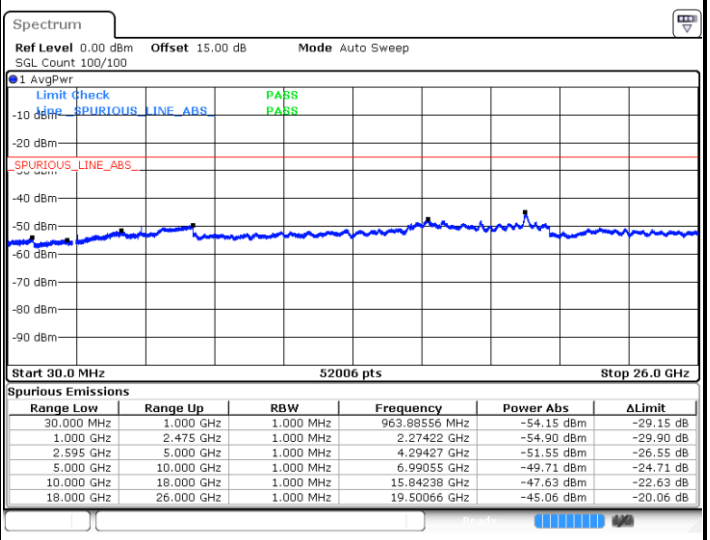


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-53.85 dBm	-28.85 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.47475 GHz	-54.12 dBm	-29.12 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.33804 GHz	-51.81 dBm	-26.81 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.00225 GHz	-49.46 dBm	-24.46 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.83039 GHz	-47.64 dBm	-22.64 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.50966 GHz	-45.11 dBm	-20.11 dB

Date: 24.APR.2025 00:55:26

Middle Channel / QPSK

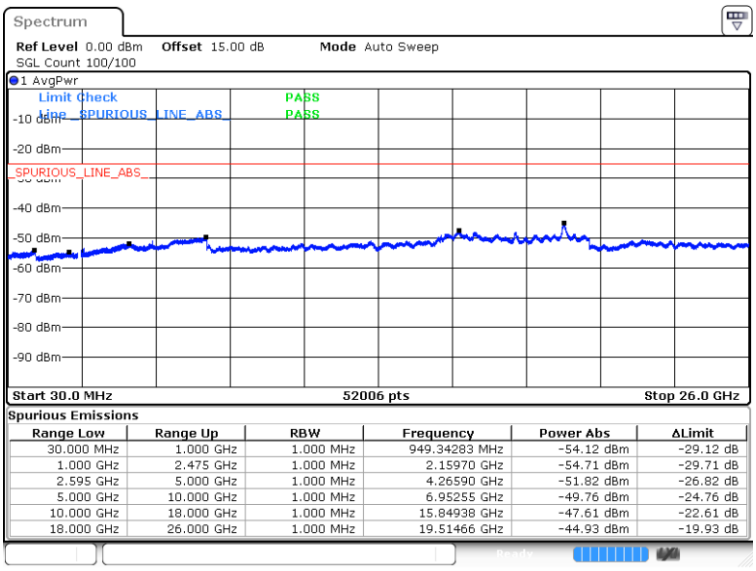


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.88556 MHz	-54.15 dBm	-29.15 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.27422 GHz	-54.90 dBm	-29.90 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.29427 GHz	-51.55 dBm	-26.55 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.99055 GHz	-49.71 dBm	-24.71 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.84238 GHz	-47.63 dBm	-22.63 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.50066 GHz	-45.06 dBm	-20.06 dB

Date: 24.APR.2025 00:56:40

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	949.34283 MHz	-54.12 dBm	-29.12 dB
1.000 GHz	2.475 GHz	1.000 MHz	2.15970 GHz	-54.71 dBm	-29.71 dB
2.595 GHz	5.000 GHz	1.000 MHz	4.26590 GHz	-51.82 dBm	-26.82 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.95255 GHz	-49.76 dBm	-24.76 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.84938 GHz	-47.61 dBm	-22.61 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.51466 GHz	-44.93 dBm	-19.93 dB

Date: 24.APR.2025 01:08:04

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0005	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

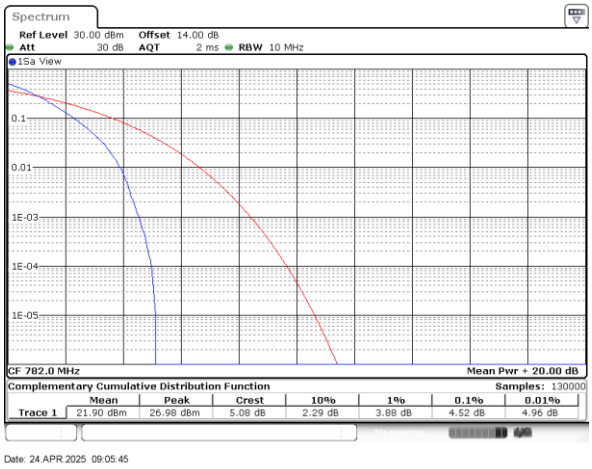
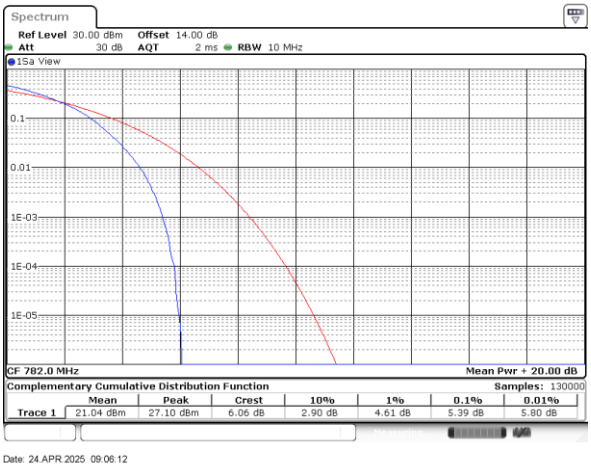
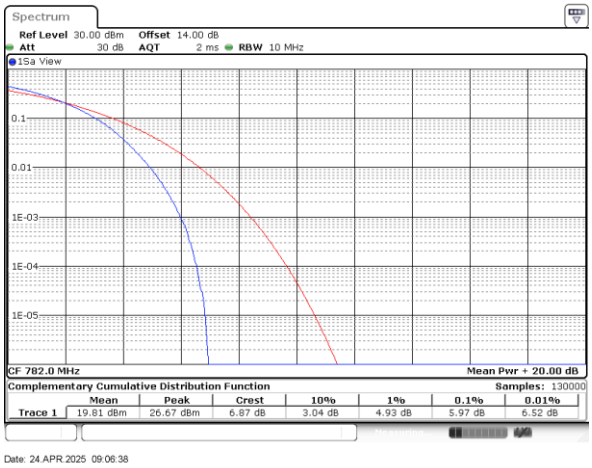
Note:

1. Normal Voltage = 3.87 V.; Battery End Point (BEP) = 3.6 V.; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.52	5.39	5.97	PASS

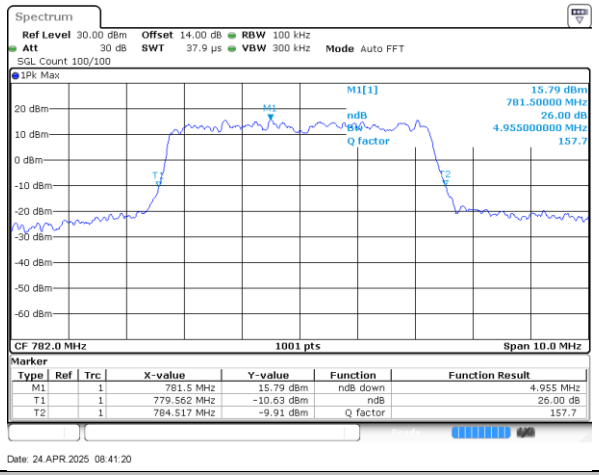
LTE Band 13 / 10MHz / QPSK	LTE Band 13 / 10MHz / 16QAM
Middle Channel / Full RB	**Middle Channel / Full RB**
	
LTE Band 13 / 10MHz / 64QAM	
Middle Channel / Full RB	
	

26dB Bandwidth

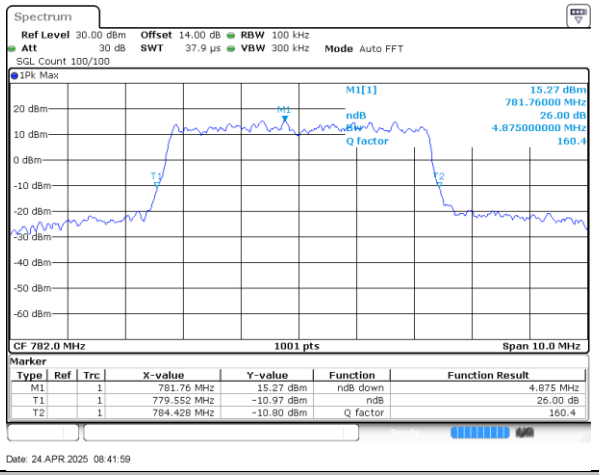
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.96	4.88	9.79	9.75	-	-	-	-

LTE Band 13

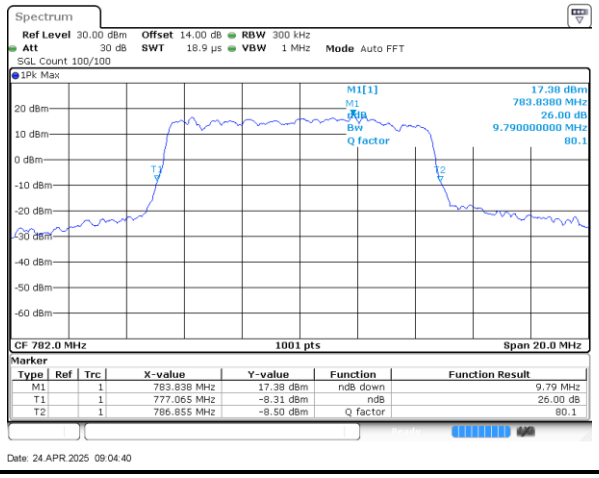
Middle Channel / 5MHz / QPSK



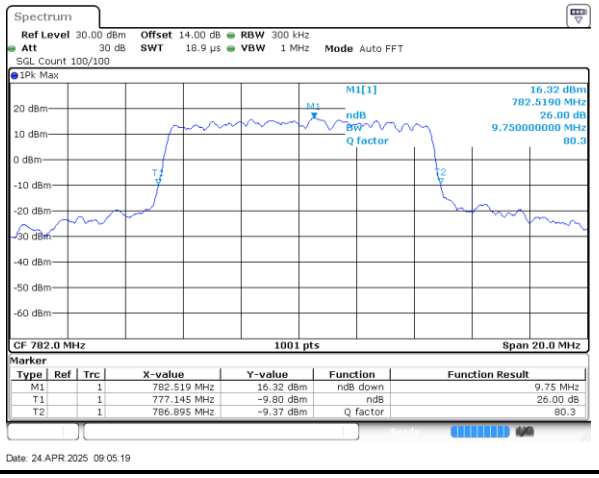
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.49	4.48	9.03	9.03	-	-	-	-