



FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2520
FCC ID : 2AUCY-V2520
STANDARD : 47 CFR Part 27(F), 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jul. 18, 2025 ~ Aug. 04, 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



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 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
FG570112C	Rev. 01	Initial issue of report	Aug. 12, 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+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§27.53(c)(2)	Conducted Spurious Emission (Band 13)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§27.53(c)(2) §27.53(f)	Radiated Spurious Emission (Band 13)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 20.35 dB at 1559.50 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log 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/manufacture 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

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan, Guangdong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2520
FCC ID	2AUCY-V2520
IMEI Code / SN	Conducted: 10AF761EFS00147 Radiation: 868458089976758/868458089976741
HW Version	MP_0.1
SW Version	PD2510F_EX_A_15.0.6.3.W30
EUT Stage	Production Unit

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

1.4 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: 2535 MHz ~ 2655 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: 2535 MHz ~ 2655 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	<Ant.13> LTE Band 7: 23.45 dBm LTE Band 13: 22.88 dBm LTE Band 38: 24.30 dBm LTE Band 41: 24.68 dBm <Ant.31> LTE Band 7: 23.88 dBm LTE Band 13: 22.88 dBm LTE Band 38: 24.63 dBm LTE Band 41: 24.66 dBm
Antenna Gain	<Ant.13> LTE Band 7: -1.43 dBi LTE Band 13: -4.96 dBi LTE Band 38: 0.21 dBi LTE Band 41: 0.32 dBi <Ant.31> LTE Band 7: -1.86 dBi LTE Band 13: -4.39 dBi LTE Band 38: -1.78 dBi LTE Band 41: -1.08 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Ant.13 for LTE Band 38/41 and Ant. 31 for LTE Band 7/13 is shown in the report.
2. For conducted test items, only the test data of Ant.13 for LTE B13/41 and Ant. 31 for LTE B7 are shown in the report according to the maximum conducted power.

1.5 Modification of EUT

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



1.6 Maximum ERP/EIRP 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	0.1585	4M48G7D	0.1268	4M50W7D
10	2505.0 ~ 2565.0	0.1578	9M03G7D	0.1271	9M01W7D
15	2507.5 ~ 2562.5	0.1570	13M5G7D	0.1274	13M4W7D
20	2510.0 ~ 2560.0	0.1592	17M9G7D	0.1279	18M0W7D
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	0.0429	5M52G7D	0.0394	4M49W7D
10	782.0	0.0431	9M09G7D	0.0397	9M09W7D
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	0.2799	4M50G7D	0.2051	4M43W7D
10	2575.0 ~ 2615.0	0.2805	9M05G7D	0.2051	9M05W7D
15	2577.5 ~ 2612.5	0.2780	13M4G7D	0.2037	13M4W7D
20	2580.0 ~ 2610.0	0.2825	17M9G7D	0.2084	17M9W7D
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	2537.5 ~ 2652.5	0.3097	4M50G7D	0.2109	4M43W7D
10	2540.0 ~ 2650.0	0.3090	9M05G7D	0.2168	9M05W7D
15	2542.5 ~ 2647.5	0.3148	13M4G7D	0.2113	13M4W7D
20	2545.0 ~ 2645.0	0.3162	17M9G7D	0.2109	17M9W7D

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 03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applicable Standards

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

- ♦ 47 CFR Part 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

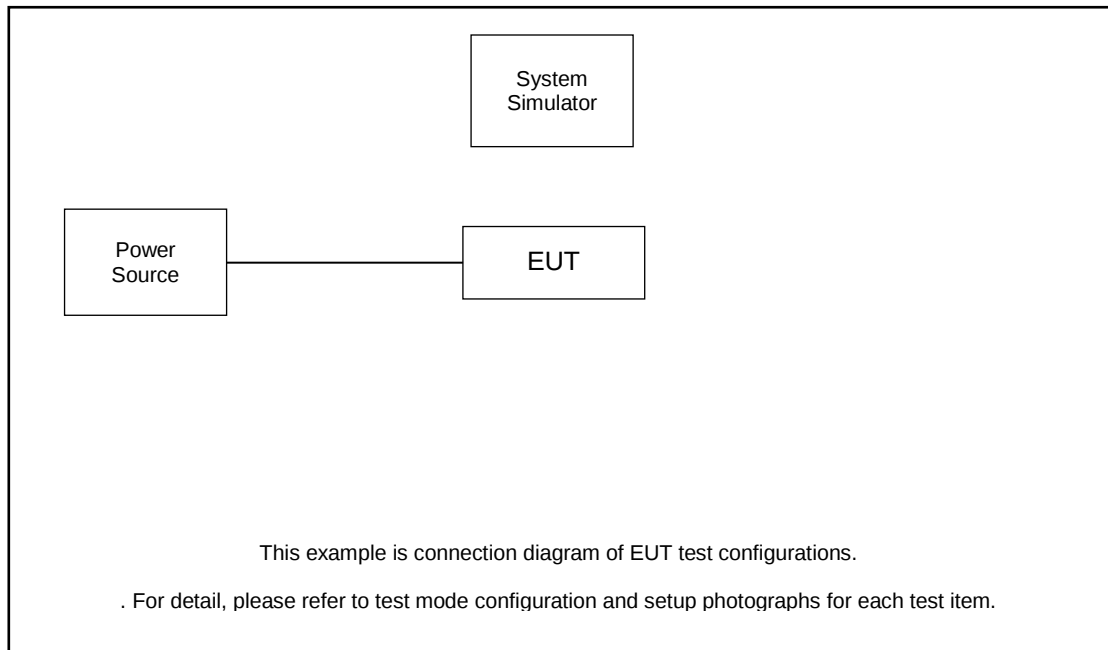
2.1 Test Mode

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.

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



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 :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 5.0 + 10 = 15.0 \text{ (dB)}
 \end{aligned}$$

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	40140	40640	41140
	Frequency	2545	2595	2645
15	Channel	40115	40640	41165
	Frequency	2542.5	2595	2647.5
10	Channel	40090	40640	41190
	Frequency	2540	2595	2650
5	Channel	40065	40640	41215
	Frequency	2537.5	2595	2652.5

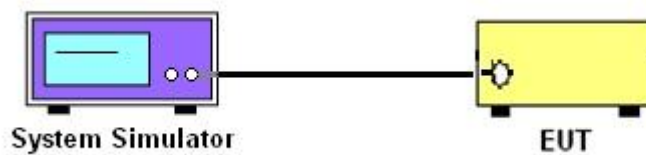
3 Conducted Test Items

3.1 Measuring Instruments

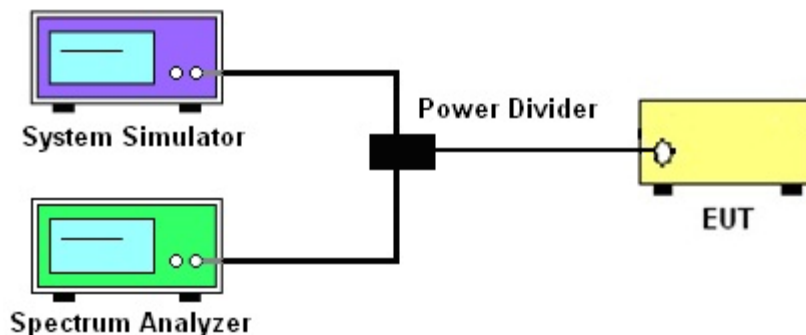
See list of measuring instruments of this test report.

3.2 Test Setup

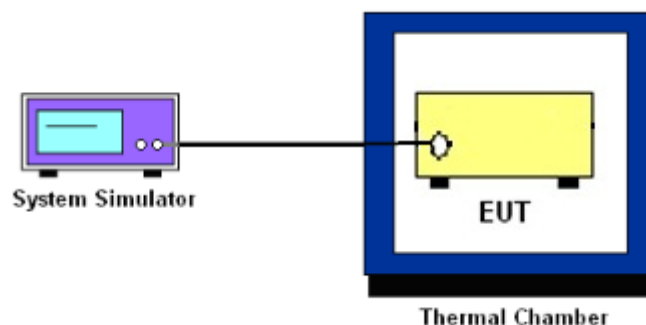
3.2.1 Conducted Output Power



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 $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ 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 $65 + 10 \log_{10} p(\text{watts})$, 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 than $43 + 10 \log (P)$ 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 $\geq$ 1%/ 2% 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

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.

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.

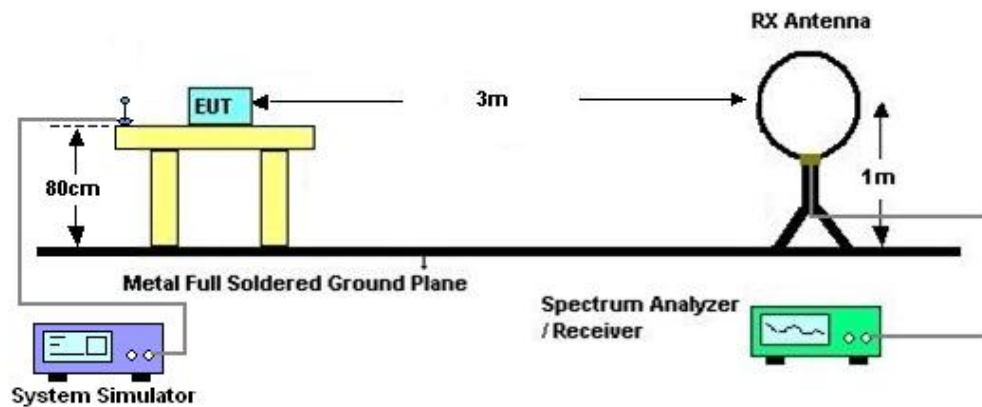
4 Radiated Test Items

4.1 Measuring Instruments

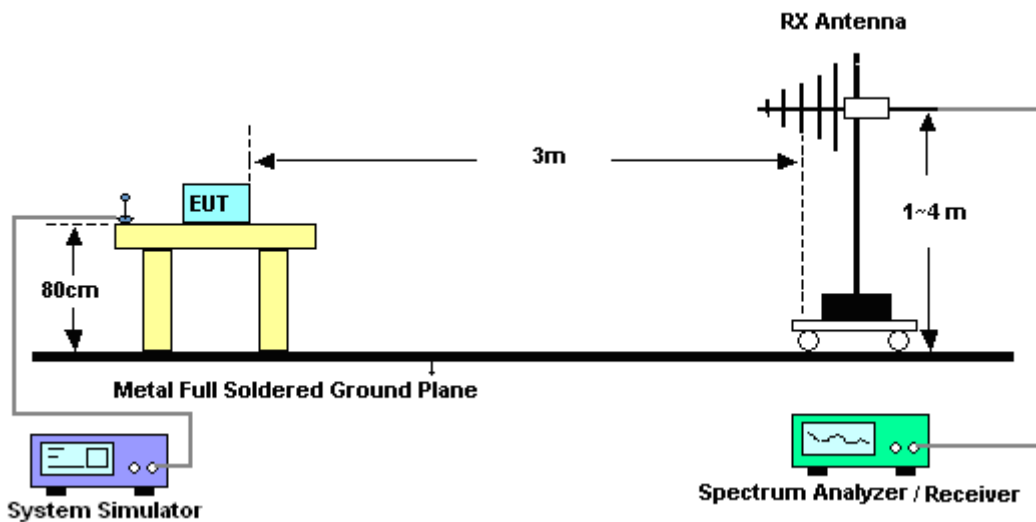
See list of measuring instruments of this test report.

4.2 Test Setup

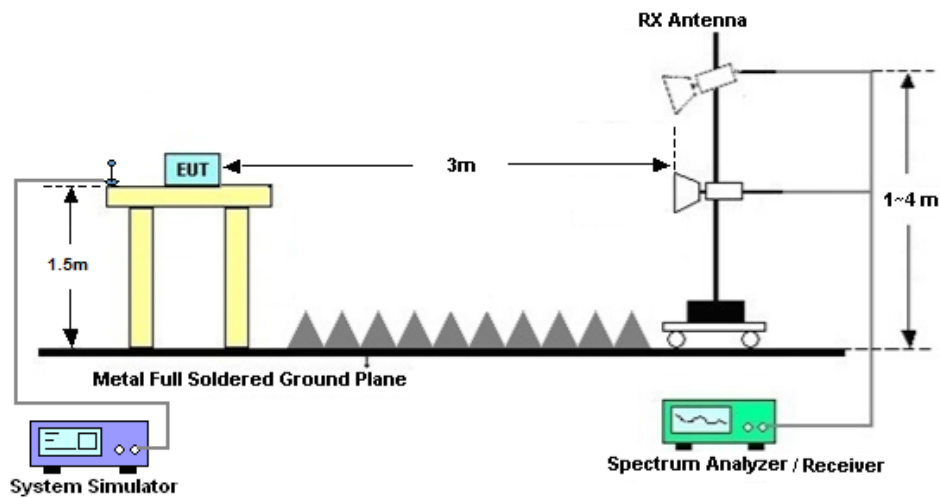
4.2.1 For radiated test below 30MHz



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.

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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

$= P(W) - [43 + 10\log(P)] \text{ (dB)}$

$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$

$= -13\text{dBm}.$

13. For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ 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
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Jul. 20, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Jul. 20, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jul. 20, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Jul. 20, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Jul. 20, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Jul. 20, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Jul. 20, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Jul. 20, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Jul. 20, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Jul. 20, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 20, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 20, 2025	NCR	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Jul. 18, 2025~ Aug. 04, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 14, 2024	Jul. 18, 2025~ Aug. 04, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N00518 0	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Jul. 18, 2025~ Aug. 04, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Jul. 18, 2025~ Aug. 04, 2025	Jul. 01, 2026	Conducted (TH01-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% ($U = 2Uc(y)$)	2.47dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.72dB
---	--------

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and EIRP/ERP

LTE Band 7_ANT31

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				20850	20850	21350			
Frequency (MHz)				2510	2535	2560	L	M	H
20	QPSK	1	0	23.85	23.88	23.83	0.1581	0.1592	0.1574
20	QPSK	1	49	23.82	23.78	23.82	0.1570	0.1556	0.1570
20	QPSK	1	99	23.76	23.73	23.80	0.1549	0.1538	0.1563
20	QPSK	50	0	22.95	22.98	22.88	0.1285	0.1294	0.1265
20	QPSK	50	24	22.80	22.89	22.84	0.1242	0.1268	0.1253
20	QPSK	50	50	22.92	22.93	22.78	0.1276	0.1279	0.1236
20	QPSK	100	0	22.79	22.88	22.81	0.1239	0.1265	0.1245
20	16QAM	1	0	22.89	22.93	22.75	0.1268	0.1279	0.1227
20	16QAM	1	49	22.90	22.89	22.74	0.1271	0.1268	0.1225
20	16QAM	1	99	22.80	22.92	22.80	0.1242	0.1276	0.1242
20	16QAM	50	0	21.99	21.85	21.70	0.1030	0.0998	0.0964
20	16QAM	50	24	21.92	21.81	21.92	0.1014	0.0989	0.1014
20	16QAM	50	50	21.88	21.92	21.88	0.1005	0.1014	0.1005
20	16QAM	100	0	22.00	21.85	21.90	0.1033	0.0998	0.1009
20	64QAM	1	0	22.10	22.12	22.08	0.1057	0.1062	0.1052
20	64QAM	1	49	21.99	21.97	21.95	0.1030	0.1026	0.1021
20	64QAM	1	99	22.08	22.06	21.93	0.1052	0.1047	0.1016
20	64QAM	50	0	20.51	20.30	20.30	0.0733	0.0698	0.0698
20	64QAM	50	24	20.49	20.35	20.29	0.0729	0.0706	0.0697
20	64QAM	50	50	20.43	20.40	20.45	0.0719	0.0714	0.0723
20	64QAM	100	0	20.44	20.27	20.27	0.0721	0.0693	0.0693
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	23.77	23.82	23.74	0.1552	0.1570	0.1542
15	QPSK	1	37	23.81	23.68	23.80	0.1567	0.1521	0.1563
15	QPSK	1	74	23.74	23.66	23.74	0.1542	0.1514	0.1542
15	QPSK	36	0	22.89	22.89	22.81	0.1268	0.1268	0.1245
15	QPSK	36	20	22.71	22.85	22.75	0.1216	0.1256	0.1227
15	QPSK	36	39	22.84	22.89	22.71	0.1253	0.1268	0.1216
15	QPSK	75	0	22.78	22.82	22.73	0.1236	0.1247	0.1222
15	16QAM	1	0	22.86	22.91	22.67	0.1259	0.1274	0.1205



15	16QAM	1	37	22.86	22.83	22.70	0.1259	0.1250	0.1213
15	16QAM	1	74	22.70	22.85	22.73	0.1213	0.1256	0.1222
15	16QAM	36	0	21.97	21.81	21.63	0.1026	0.0989	0.0948
15	16QAM	36	20	21.87	21.71	21.84	0.1002	0.0966	0.0995
15	16QAM	36	39	21.81	21.84	21.84	0.0989	0.0995	0.0995
15	16QAM	75	0	21.93	21.75	21.89	0.1016	0.0975	0.1007
15	64QAM	1	0	22.02	22.11	22.05	0.1038	0.1059	0.1045
15	64QAM	1	37	21.91	21.96	21.88	0.1012	0.1023	0.1005
15	64QAM	1	74	22.04	22.02	21.83	0.1042	0.1038	0.0993
15	64QAM	36	0	20.42	20.21	20.20	0.0718	0.0684	0.0682
15	64QAM	36	20	20.41	20.28	20.27	0.0716	0.0695	0.0693
15	64QAM	36	39	20.39	20.39	20.44	0.0713	0.0713	0.0721
15	64QAM	75	0	20.36	20.18	20.18	0.0708	0.0679	0.0679
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.84	23.82	23.73	0.1578	0.1570	0.1538
10	QPSK	1	25	23.78	23.75	23.76	0.1556	0.1545	0.1549
10	QPSK	1	49	23.66	23.68	23.70	0.1514	0.1521	0.1528
10	QPSK	25	0	22.86	22.90	22.80	0.1259	0.1271	0.1242
10	QPSK	25	12	22.74	22.84	22.81	0.1225	0.1253	0.1245
10	QPSK	25	25	22.86	22.86	22.69	0.1259	0.1259	0.1211
10	QPSK	50	0	22.75	22.86	22.72	0.1227	0.1259	0.1219
10	16QAM	1	0	22.81	22.90	22.71	0.1245	0.1271	0.1216
10	16QAM	1	25	22.82	22.81	22.64	0.1247	0.1245	0.1197
10	16QAM	1	49	22.71	22.89	22.73	0.1216	0.1268	0.1222
10	16QAM	25	0	21.93	21.77	21.65	0.1016	0.0979	0.0953
10	16QAM	25	12	21.83	21.79	21.86	0.0993	0.0984	0.1000
10	16QAM	25	25	21.79	21.90	21.83	0.0984	0.1009	0.0993
10	16QAM	50	0	21.99	21.78	21.89	0.1030	0.0982	0.1007
10	64QAM	1	0	22.08	22.11	22.00	0.1052	0.1059	0.1033
10	64QAM	1	25	21.89	21.95	21.91	0.1007	0.1021	0.1012
10	64QAM	1	49	22.04	22.02	21.87	0.1042	0.1038	0.1002
10	64QAM	25	0	20.42	20.20	20.24	0.0718	0.0682	0.0689
10	64QAM	25	12	20.44	20.34	20.21	0.0721	0.0705	0.0684
10	64QAM	25	25	20.37	20.30	20.38	0.0710	0.0698	0.0711
10	64QAM	50	0	20.39	20.20	20.20	0.0713	0.0682	0.0682
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	23.83	23.86	23.80	0.1574	0.1585	0.1563
5	QPSK	1	12	23.80	23.71	23.80	0.1563	0.1531	0.1563
5	QPSK	1	24	23.69	23.69	23.70	0.1524	0.1524	0.1528
5	QPSK	12	0	22.88	22.88	22.87	0.1265	0.1265	0.1262
5	QPSK	12	7	22.73	22.87	22.76	0.1222	0.1262	0.1230
5	QPSK	12	13	22.89	22.84	22.70	0.1268	0.1253	0.1213
5	QPSK	25	0	22.77	22.87	22.72	0.1233	0.1262	0.1219



5	16QAM	1	0	22.85	22.89	22.72	0.1256	0.1268	0.1219
5	16QAM	1	12	22.89	22.84	22.73	0.1268	0.1253	0.1222
5	16QAM	1	24	22.75	22.89	22.75	0.1227	0.1268	0.1227
5	16QAM	12	0	21.90	21.81	21.66	0.1009	0.0989	0.0955
5	16QAM	12	7	21.91	21.73	21.85	0.1012	0.0971	0.0998
5	16QAM	12	13	21.80	21.88	21.86	0.0986	0.1005	0.1000
5	16QAM	25	0	21.91	21.81	21.85	0.1012	0.0989	0.0998
5	64QAM	1	0	22.05	22.09	22.05	0.1045	0.1054	0.1045
5	64QAM	1	12	21.97	21.94	21.91	0.1026	0.1019	0.1012
5	64QAM	1	24	22.01	21.98	21.84	0.1035	0.1028	0.0995
5	64QAM	12	0	20.50	20.26	20.28	0.0731	0.0692	0.0695
5	64QAM	12	7	20.47	20.29	20.21	0.0726	0.0697	0.0684
5	64QAM	12	13	20.38	20.35	20.37	0.0711	0.0706	0.0710
5	64QAM	25	0	20.36	20.18	20.23	0.0708	0.0679	0.0687

LTE Band 13_ANT31

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		22.88			0.0431	
10	QPSK	1	25		22.71			0.0414	
10	QPSK	1	49		22.82			0.0425	
10	QPSK	25	0		21.90			0.0344	
10	QPSK	25	12		21.88			0.0342	
10	QPSK	25	25		21.63			0.0323	
10	QPSK	50	0		21.81			0.0337	
10	16QAM	1	0		22.53			0.0397	
10	16QAM	1	25		21.92			0.0345	
10	16QAM	1	49		22.52			0.0396	
10	16QAM	25	0		21.09			0.0285	
10	16QAM	25	12		20.68			0.0259	
10	16QAM	25	25		21.19			0.0292	
10	16QAM	50	0		20.79			0.0266	
10	64QAM	1	0		21.01			0.0280	
10	64QAM	1	25		20.73			0.0262	
10	64QAM	1	49		21.06			0.0283	
10	64QAM	25	0		19.58			0.0201	
10	64QAM	25	12		19.78			0.0211	
10	64QAM	25	25		20.28			0.0237	
10	64QAM	50	0		19.94			0.0219	
Channel				23205	23230	23255	ERP(W)		
Frequency (MHz)				779.5	782	784.5	L	M	H
5	QPSK	1	0	22.83	22.86	22.78	0.0426	0.0429	0.0421
5	QPSK	1	12	22.64	22.63	22.69	0.0407	0.0406	0.0412



5	QPSK	1	24	22.80	22.72	22.78	0.0423	0.0415	0.0421
5	QPSK	12	0	21.84	21.87	21.87	0.0339	0.0341	0.0341
5	QPSK	12	7	21.82	21.78	21.85	0.0337	0.0334	0.0340
5	QPSK	12	13	21.58	21.60	21.55	0.0319	0.0321	0.0317
5	QPSK	25	0	21.71	21.77	21.72	0.0329	0.0333	0.0330
5	16QAM	1	0	22.45	22.47	22.46	0.0390	0.0392	0.0391
5	16QAM	1	12	21.86	21.83	21.87	0.0340	0.0338	0.0341
5	16QAM	1	24	22.50	22.49	22.46	0.0394	0.0394	0.0391
5	16QAM	12	0	21.05	21.03	21.01	0.0282	0.0281	0.0280
5	16QAM	12	7	20.63	20.62	20.62	0.0256	0.0256	0.0256
5	16QAM	12	13	21.15	21.18	21.18	0.0289	0.0291	0.0291
5	16QAM	25	0	20.76	20.74	20.76	0.0264	0.0263	0.0264
5	64QAM	1	0	20.99	20.99	20.95	0.0279	0.0279	0.0276
5	64QAM	1	12	20.66	20.66	20.64	0.0258	0.0258	0.0257
5	64QAM	1	24	21.05	21.00	21.01	0.0282	0.0279	0.0280
5	64QAM	12	0	19.55	19.54	19.54	0.0200	0.0200	0.0200
5	64QAM	12	7	19.75	19.68	19.71	0.0209	0.0206	0.0207
5	64QAM	12	13	20.20	20.20	20.25	0.0232	0.0232	0.0235
5	64QAM	25	0	19.89	19.84	19.88	0.0216	0.0214	0.0216

LTE Band 38_ANT13

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	24.26	24.30	24.22	0.2799	0.2825	0.2773
20	QPSK	1	49	24.15	24.17	24.17	0.2729	0.2742	0.2742
20	QPSK	1	99	24.17	24.17	24.21	0.2742	0.2742	0.2767
20	QPSK	50	0	23.38	23.45	23.40	0.2286	0.2323	0.2296
20	QPSK	50	24	23.33	23.26	23.35	0.2259	0.2223	0.2270
20	QPSK	50	50	23.35	23.20	23.38	0.2270	0.2193	0.2286
20	QPSK	100	0	23.31	23.35	23.20	0.2249	0.2270	0.2193
20	16QAM	1	0	22.54	22.71	22.66	0.1884	0.1959	0.1936
20	16QAM	1	49	22.88	22.73	22.77	0.2037	0.1968	0.1986
20	16QAM	1	99	22.54	22.76	22.98	0.1884	0.1982	0.2084
20	16QAM	50	0	22.52	22.50	22.33	0.1875	0.1866	0.1795
20	16QAM	50	24	22.51	22.43	22.38	0.1871	0.1837	0.1816
20	16QAM	50	50	22.55	22.45	22.50	0.1888	0.1845	0.1866
20	16QAM	100	0	22.39	22.40	22.45	0.1820	0.1824	0.1845
20	64QAM	1	0	21.62	21.30	21.50	0.1524	0.1416	0.1483
20	64QAM	1	49	21.66	21.36	21.35	0.1538	0.1435	0.1432
20	64QAM	1	99	21.60	21.35	21.44	0.1517	0.1432	0.1462
20	64QAM	50	0	20.54	20.55	20.49	0.1189	0.1191	0.1175
20	64QAM	50	24	20.61	20.55	20.58	0.1208	0.1191	0.1199
20	64QAM	50	50	20.65	20.37	20.52	0.1219	0.1143	0.1183



20	64QAM	100	0	20.58	20.44	20.55	0.1199	0.1161	0.1191
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	24.16	24.23	24.21	0.2735	0.2780	0.2767
15	QPSK	1	37	24.12	24.14	24.09	0.2710	0.2723	0.2692
15	QPSK	1	74	24.14	24.15	24.13	0.2723	0.2729	0.2716
15	QPSK	36	0	23.28	23.39	23.36	0.2234	0.2291	0.2275
15	QPSK	36	20	23.25	23.25	23.28	0.2218	0.2218	0.2234
15	QPSK	36	39	23.27	23.18	23.28	0.2228	0.2183	0.2234
15	QPSK	75	0	23.30	23.28	23.17	0.2244	0.2234	0.2178
15	16QAM	1	0	22.46	22.70	22.59	0.1849	0.1954	0.1905
15	16QAM	1	37	22.82	22.72	22.71	0.2009	0.1963	0.1959
15	16QAM	1	74	22.52	22.70	22.88	0.1875	0.1954	0.2037
15	16QAM	36	0	22.45	22.40	22.27	0.1845	0.1824	0.1770
15	16QAM	36	20	22.41	22.33	22.35	0.1828	0.1795	0.1803
15	16QAM	36	39	22.46	22.43	22.48	0.1849	0.1837	0.1858
15	16QAM	75	0	22.30	22.34	22.42	0.1782	0.1799	0.1832
15	64QAM	1	0	21.55	21.28	21.41	0.1500	0.1409	0.1452
15	64QAM	1	37	21.61	21.35	21.33	0.1521	0.1432	0.1426
15	64QAM	1	74	21.56	21.29	21.42	0.1503	0.1413	0.1455
15	64QAM	36	0	20.53	20.52	20.42	0.1186	0.1183	0.1156
15	64QAM	36	20	20.59	20.45	20.52	0.1202	0.1164	0.1183
15	64QAM	36	39	20.59	20.28	20.48	0.1202	0.1119	0.1172
15	64QAM	75	0	20.55	20.38	20.46	0.1191	0.1146	0.1167
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	24.22	24.27	24.17	0.2773	0.2805	0.2742
10	QPSK	1	25	24.10	24.13	24.12	0.2698	0.2716	0.2710
10	QPSK	1	49	24.09	24.07	24.20	0.2692	0.2679	0.2761
10	QPSK	25	0	23.31	23.36	23.30	0.2249	0.2275	0.2244
10	QPSK	25	12	23.30	23.18	23.25	0.2244	0.2183	0.2218
10	QPSK	25	25	23.30	23.10	23.30	0.2244	0.2143	0.2244
10	QPSK	50	0	23.26	23.31	23.17	0.2223	0.2249	0.2178
10	16QAM	1	0	22.52	22.62	22.65	0.1875	0.1919	0.1932
10	16QAM	1	25	22.81	22.72	22.75	0.2004	0.1963	0.1977
10	16QAM	1	49	22.52	22.75	22.91	0.1875	0.1977	0.2051
10	16QAM	25	0	22.43	22.45	22.29	0.1837	0.1845	0.1778
10	16QAM	25	12	22.41	22.39	22.34	0.1828	0.1820	0.1799
10	16QAM	25	25	22.45	22.41	22.48	0.1845	0.1828	0.1858
10	16QAM	50	0	22.31	22.39	22.39	0.1786	0.1820	0.1820
10	64QAM	1	0	21.61	21.29	21.44	0.1521	0.1413	0.1462
10	64QAM	1	25	21.63	21.26	21.25	0.1528	0.1403	0.1400
10	64QAM	1	49	21.51	21.27	21.43	0.1486	0.1406	0.1459
10	64QAM	25	0	20.52	20.53	20.47	0.1183	0.1186	0.1169
10	64QAM	25	12	20.56	20.47	20.54	0.1194	0.1169	0.1189
10	64QAM	25	25	20.64	20.31	20.45	0.1216	0.1127	0.1164
10	64QAM	50	0	20.52	20.39	20.54	0.1183	0.1148	0.1189
Channel				37775	38000	38225	EIRP(W)		



Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	24.18	24.26	24.12	0.2748	0.2799	0.2710
5	QPSK	1	12	24.10	24.15	24.16	0.2698	0.2729	0.2735
5	QPSK	1	24	24.16	24.12	24.20	0.2735	0.2710	0.2761
5	QPSK	12	0	23.32	23.43	23.31	0.2254	0.2312	0.2249
5	QPSK	12	7	23.24	23.16	23.25	0.2213	0.2173	0.2218
5	QPSK	12	13	23.25	23.16	23.28	0.2218	0.2173	0.2234
5	QPSK	25	0	23.22	23.34	23.19	0.2203	0.2265	0.2188
5	16QAM	1	0	22.46	22.65	22.60	0.1849	0.1932	0.1910
5	16QAM	1	12	22.83	22.64	22.75	0.2014	0.1928	0.1977
5	16QAM	1	24	22.46	22.74	22.91	0.1849	0.1972	0.2051
5	16QAM	12	0	22.43	22.40	22.27	0.1837	0.1824	0.1770
5	16QAM	12	7	22.47	22.35	22.33	0.1854	0.1803	0.1795
5	16QAM	12	13	22.45	22.43	22.44	0.1845	0.1837	0.1841
5	16QAM	25	0	22.31	22.35	22.40	0.1786	0.1803	0.1824
5	64QAM	1	0	21.53	21.23	21.42	0.1493	0.1393	0.1455
5	64QAM	1	12	21.59	21.27	21.29	0.1514	0.1406	0.1413
5	64QAM	1	24	21.50	21.33	21.42	0.1483	0.1426	0.1455
5	64QAM	12	0	20.46	20.50	20.46	0.1167	0.1178	0.1167
5	64QAM	12	7	20.56	20.46	20.54	0.1194	0.1167	0.1189
5	64QAM	12	13	20.57	20.36	20.51	0.1197	0.1140	0.1180
5	64QAM	25	0	20.54	20.35	20.51	0.1189	0.1138	0.1180

LTE Band 41_ANT13

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				40140	40640	41140			
Frequency (MHz)				2545	2595	2645	L	M	H
20	QPSK	1	0	24.48	24.51	24.68	0.3020	0.3041	0.3162
20	QPSK	1	49	24.37	24.38	24.54	0.2944	0.2951	0.3062
20	QPSK	1	99	24.36	24.28	24.55	0.2938	0.2884	0.3069
20	QPSK	50	0	23.38	23.42	23.46	0.2344	0.2366	0.2388
20	QPSK	50	24	23.28	23.37	23.40	0.2291	0.2339	0.2355
20	QPSK	50	50	23.35	23.26	23.30	0.2328	0.2280	0.2301
20	QPSK	100	0	23.34	23.33	23.37	0.2323	0.2317	0.2339
20	16QAM	1	0	22.66	22.84	22.70	0.1986	0.2070	0.2004
20	16QAM	1	49	22.71	22.92	22.72	0.2009	0.2109	0.2014
20	16QAM	1	99	22.80	22.69	22.72	0.2051	0.2000	0.2014
20	16QAM	50	0	22.60	22.71	22.56	0.1959	0.2009	0.1941
20	16QAM	50	24	22.59	22.62	22.43	0.1954	0.1968	0.1884
20	16QAM	50	50	22.45	22.57	22.44	0.1892	0.1945	0.1888
20	16QAM	100	0	22.49	22.61	22.49	0.1910	0.1963	0.1910
20	64QAM	1	0	21.66	21.83	21.64	0.1578	0.1641	0.1570
20	64QAM	1	49	21.71	21.71	21.78	0.1596	0.1596	0.1622
20	64QAM	1	99	21.86	21.72	21.63	0.1652	0.1600	0.1567
20	64QAM	50	0	20.60	20.65	20.47	0.1236	0.1250	0.1199



20	64QAM	50	24	20.55	20.63	20.50	0.1222	0.1245	0.1208
20	64QAM	50	50	20.64	20.44	20.57	0.1247	0.1191	0.1227
20	64QAM	100	0	20.58	20.59	20.66	0.1230	0.1233	0.1253
Channel				40115	40640	41165	EIRP(W)		
Frequency (MHz)				2542.5	2595	2647.5	L	M	H
15	QPSK	1	0	24.41	24.39	24.66	0.2972	0.2958	0.3148
15	QPSK	1	37	24.29	24.46	24.51	0.2891	0.3006	0.3041
15	QPSK	1	74	24.27	24.32	24.51	0.2877	0.2911	0.3041
15	QPSK	36	0	23.32	23.37	23.41	0.2312	0.2339	0.2360
15	QPSK	36	20	23.27	23.40	23.32	0.2286	0.2355	0.2312
15	QPSK	36	39	23.27	23.20	23.21	0.2286	0.2249	0.2254
15	QPSK	75	0	23.26	23.40	23.29	0.2280	0.2355	0.2296
15	16QAM	1	0	22.64	22.90	22.63	0.1977	0.2099	0.1972
15	16QAM	1	37	22.61	22.93	22.69	0.1963	0.2113	0.2000
15	16QAM	1	74	22.75	22.69	22.65	0.2028	0.2000	0.1982
15	16QAM	36	0	22.59	22.72	22.50	0.1954	0.2014	0.1914
15	16QAM	36	20	22.52	22.60	22.40	0.1923	0.1959	0.1871
15	16QAM	36	39	22.43	22.52	22.40	0.1884	0.1923	0.1871
15	16QAM	75	0	22.46	22.54	22.40	0.1897	0.1932	0.1871
15	64QAM	1	0	21.61	21.83	21.58	0.1560	0.1641	0.1549
15	64QAM	1	37	21.63	21.75	21.71	0.1567	0.1611	0.1596
15	64QAM	1	74	21.83	21.75	21.61	0.1641	0.1611	0.1560
15	64QAM	36	0	20.53	20.61	20.44	0.1216	0.1239	0.1191
15	64QAM	36	20	20.50	20.61	20.47	0.1208	0.1239	0.1199
15	64QAM	36	39	20.63	20.42	20.52	0.1245	0.1186	0.1213
15	64QAM	75	0	20.52	20.69	20.58	0.1213	0.1262	0.1230
Channel				40090	40640	41190	EIRP(W)		
Frequency (MHz)				2540	2595	2650	L	M	H
10	QPSK	1	0	24.45	24.44	24.58	0.2999	0.2992	0.3090
10	QPSK	1	25	24.36	24.49	24.51	0.2938	0.3027	0.3041
10	QPSK	1	49	24.30	24.36	24.52	0.2897	0.2938	0.3048
10	QPSK	25	0	23.30	23.37	23.39	0.2301	0.2339	0.2350
10	QPSK	25	12	23.25	23.31	23.34	0.2275	0.2307	0.2323
10	QPSK	25	25	23.29	23.16	23.23	0.2296	0.2228	0.2265
10	QPSK	50	0	23.24	23.29	23.34	0.2270	0.2296	0.2323
10	16QAM	1	0	22.63	22.81	22.64	0.1972	0.2056	0.1977
10	16QAM	1	25	22.66	23.04	22.71	0.1986	0.2168	0.2009
10	16QAM	1	49	22.72	22.72	22.66	0.2014	0.2014	0.1986
10	16QAM	25	0	22.55	22.73	22.51	0.1936	0.2018	0.1919
10	16QAM	25	12	22.52	22.65	22.40	0.1923	0.1982	0.1871
10	16QAM	25	25	22.41	22.57	22.35	0.1875	0.1945	0.1849
10	16QAM	50	0	22.44	22.63	22.43	0.1888	0.1972	0.1884
10	64QAM	1	0	21.63	21.78	21.54	0.1567	0.1622	0.1535
10	64QAM	1	25	21.65	21.74	21.76	0.1574	0.1607	0.1614
10	64QAM	1	49	21.82	21.79	21.58	0.1637	0.1626	0.1549
10	64QAM	25	0	20.50	20.69	20.43	0.1208	0.1262	0.1189
10	64QAM	25	12	20.45	20.69	20.44	0.1194	0.1262	0.1191
10	64QAM	25	25	20.58	20.51	20.53	0.1230	0.1211	0.1216



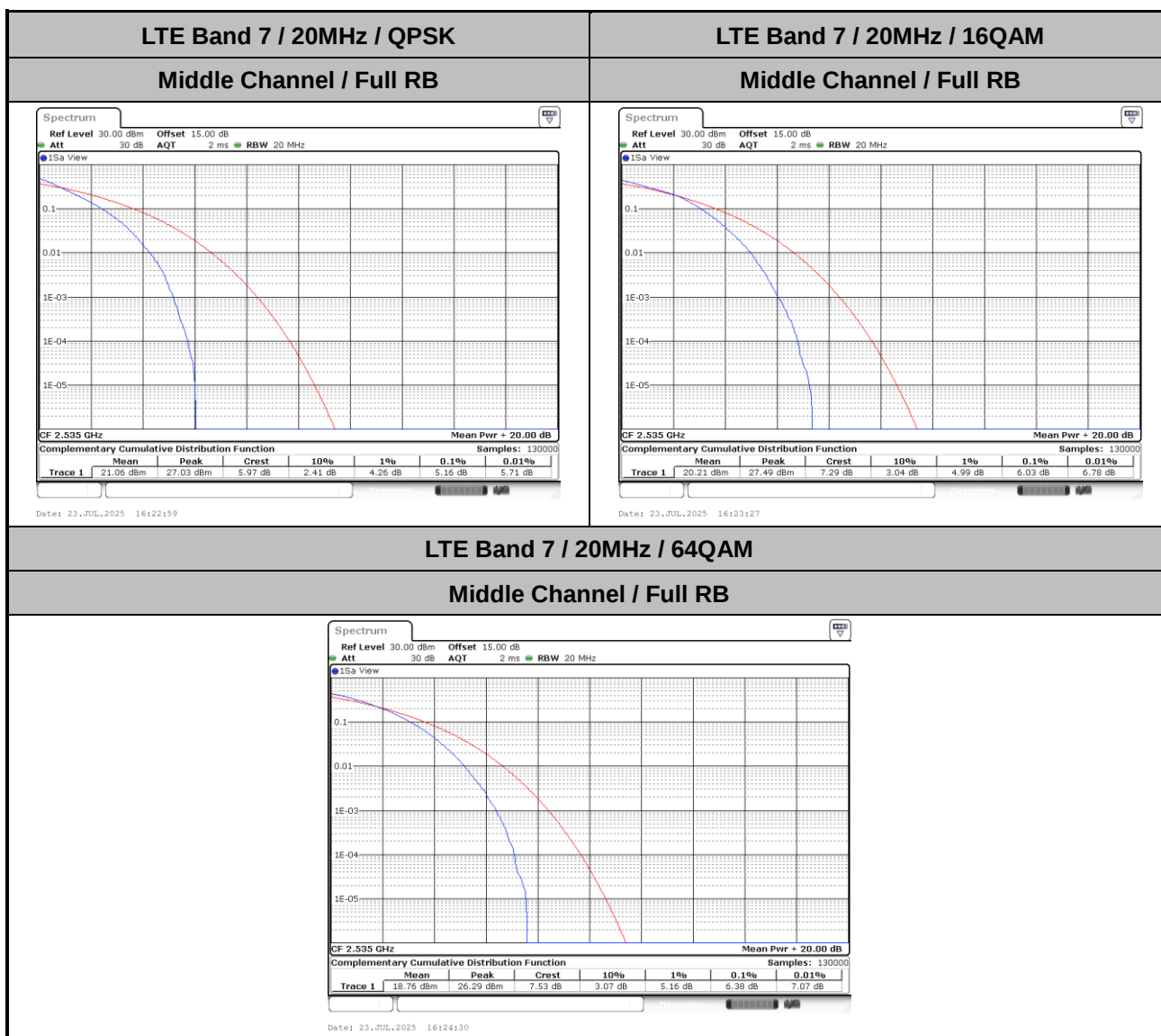
10	64QAM	50	0	20.50	20.70	20.63	0.1208	0.1265	0.1245
Channel				40065	40640	41215	EIRP(W)		
Frequency (MHz)				2537.5	2595	2652.5	L	M	H
5	QPSK	1	0	24.40	24.44	24.59	0.2965	0.2992	0.3097
5	QPSK	1	12	24.36	24.36	24.44	0.2938	0.2938	0.2992
5	QPSK	1	24	24.35	24.31	24.48	0.2931	0.2904	0.3020
5	QPSK	12	0	23.37	23.48	23.37	0.2339	0.2399	0.2339
5	QPSK	12	7	23.19	23.34	23.32	0.2244	0.2323	0.2312
5	QPSK	12	13	23.34	23.26	23.20	0.2323	0.2280	0.2249
5	QPSK	25	0	23.26	23.32	23.29	0.2280	0.2312	0.2296
5	16QAM	1	0	22.59	22.91	22.63	0.1954	0.2104	0.1972
5	16QAM	1	12	22.66	22.92	22.70	0.1986	0.2109	0.2004
5	16QAM	1	24	22.77	22.78	22.70	0.2037	0.2042	0.2004
5	16QAM	12	0	22.59	22.64	22.50	0.1954	0.1977	0.1914
5	16QAM	12	7	22.53	22.57	22.34	0.1928	0.1945	0.1845
5	16QAM	12	13	22.44	22.49	22.43	0.1888	0.1910	0.1884
5	16QAM	25	0	22.45	22.51	22.40	0.1892	0.1919	0.1871
5	64QAM	1	0	21.56	21.86	21.59	0.1542	0.1652	0.1552
5	64QAM	1	12	21.61	21.71	21.70	0.1560	0.1596	0.1592
5	64QAM	1	24	21.76	21.77	21.59	0.1614	0.1618	0.1552
5	64QAM	12	0	20.51	20.60	20.37	0.1211	0.1236	0.1172
5	64QAM	12	7	20.48	20.66	20.42	0.1202	0.1253	0.1186
5	64QAM	12	13	20.55	20.42	20.47	0.1222	0.1186	0.1199
5	64QAM	25	0	20.55	20.68	20.56	0.1222	0.1259	0.1225



LTE Band 7

Peak-to-Average Ratio

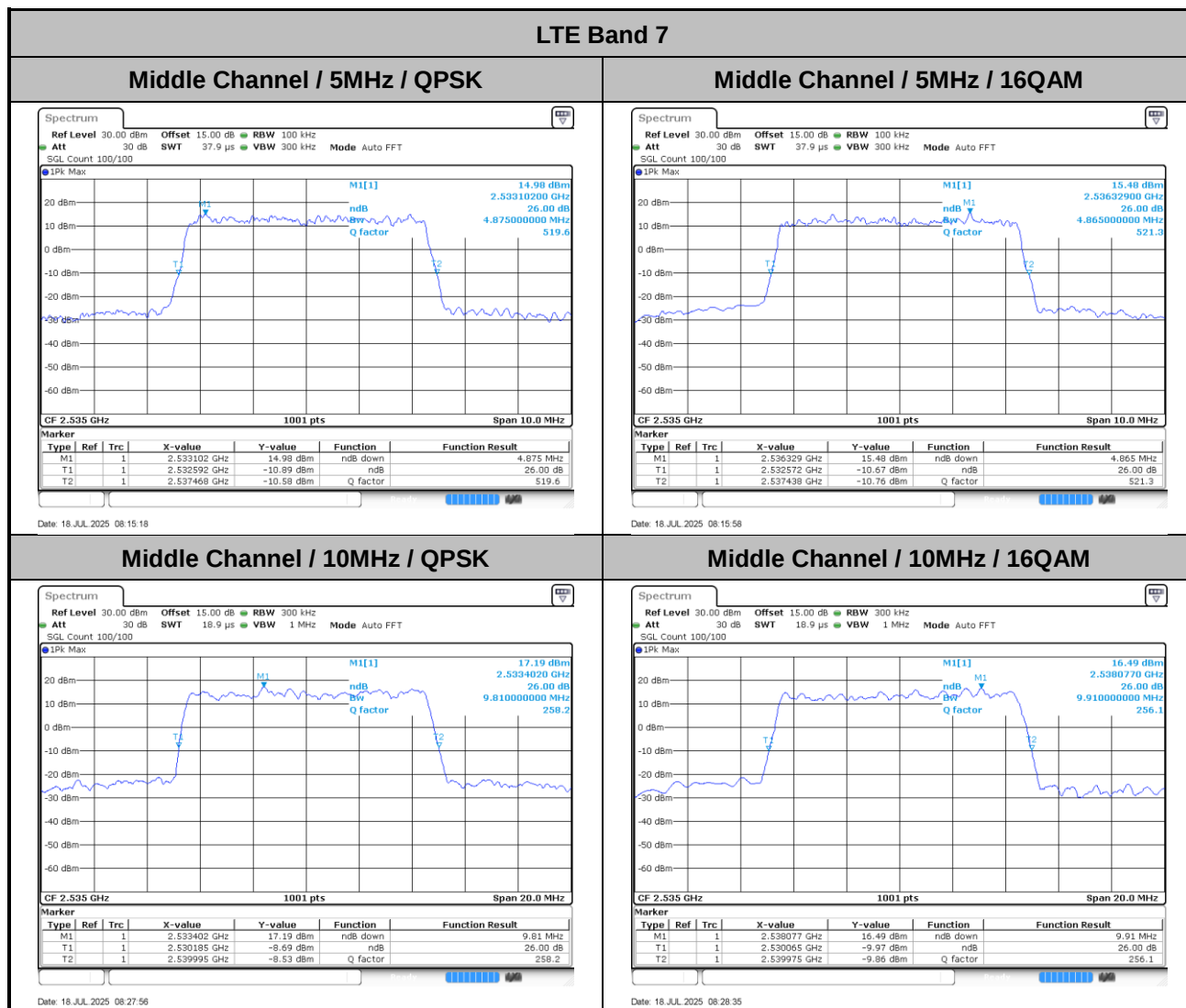
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.16	6.03	6.38	PASS





26dB Bandwidth

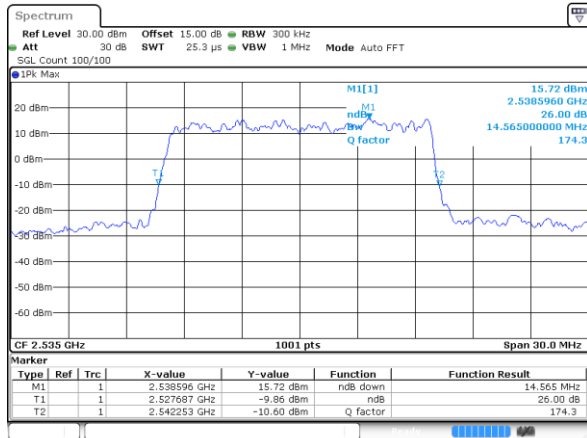
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	4.87	9.81	9.91	14.57	14.72	19.14	19.70





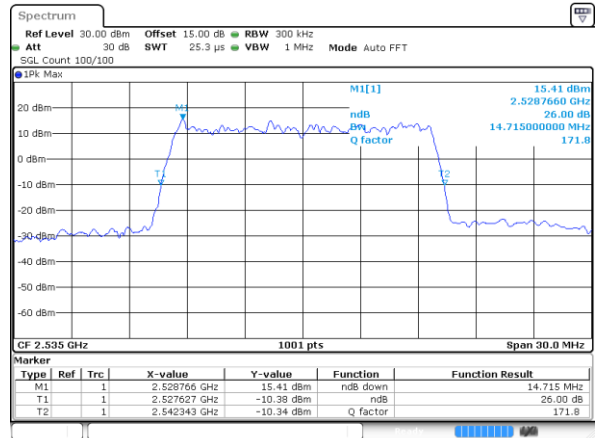
LTE Band 7

Middle Channel / 15MHz / QPSK



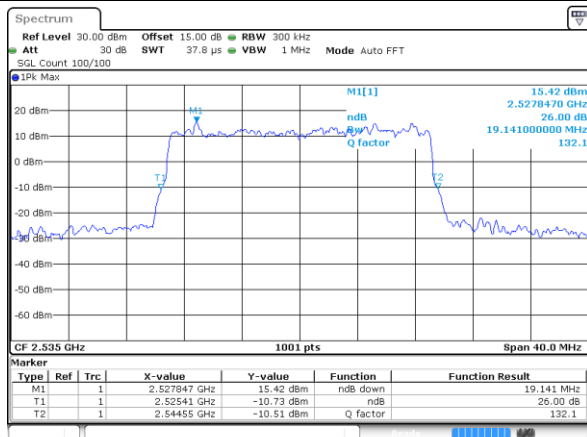
Date: 18 JUL 2025 08:40:30

Middle Channel / 15MHz / 16QAM



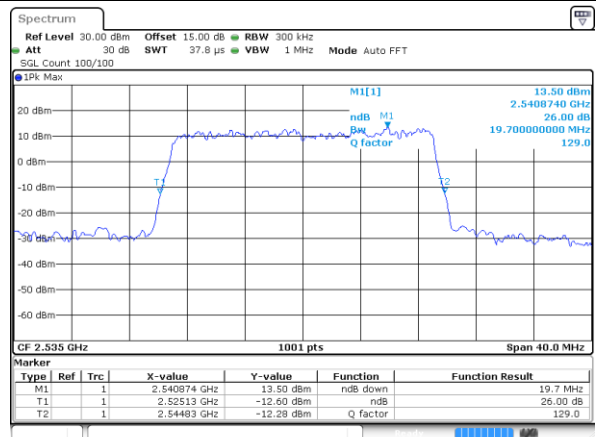
Date: 18 JUL 2025 08:41:09

Middle Channel / 20MHz / QPSK



Date: 18 JUL 2025 08:53:45

Middle Channel / 20MHz / 16QAM

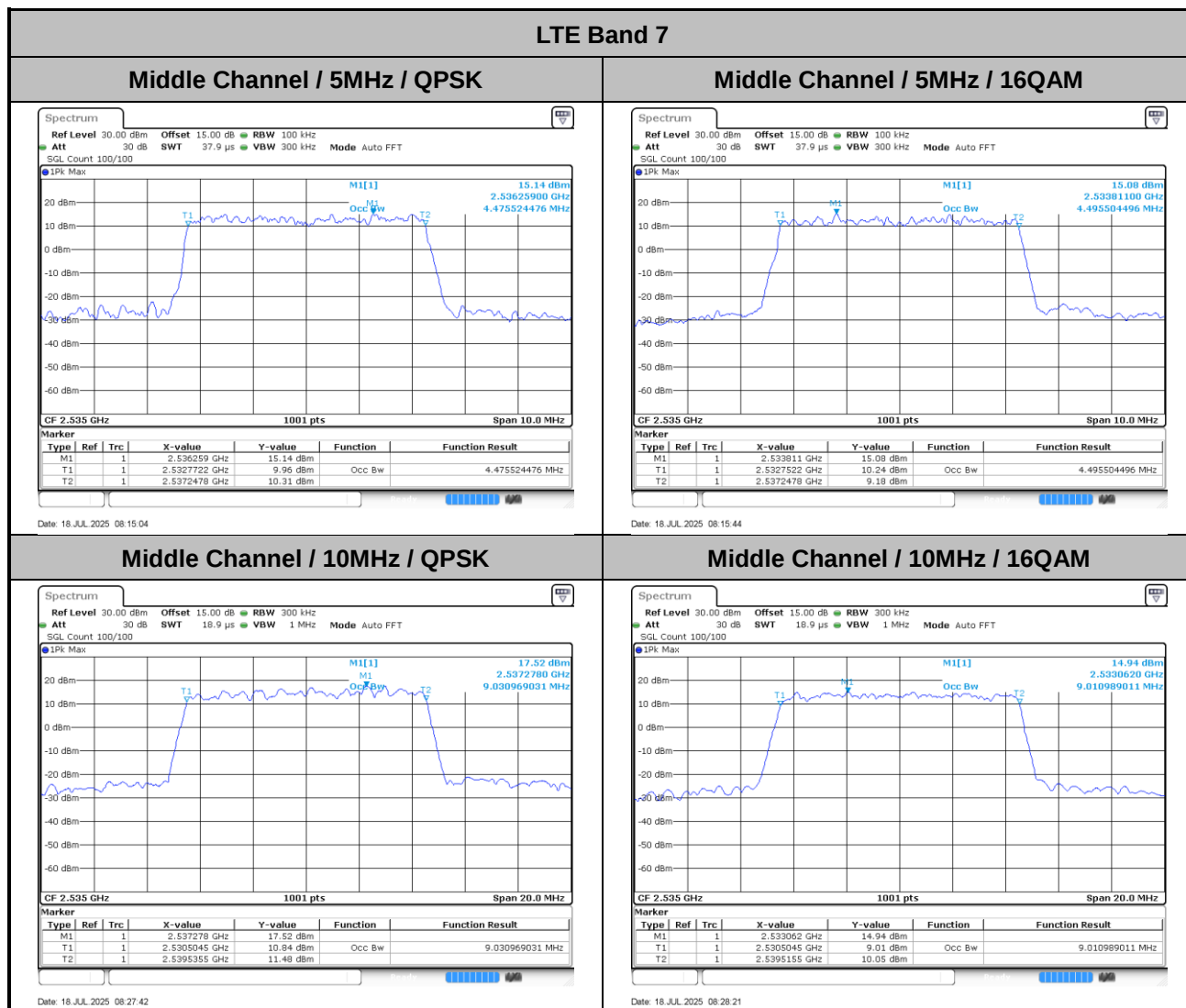


Date: 18 JUL 2025 08:54:24



Occupied Bandwidth

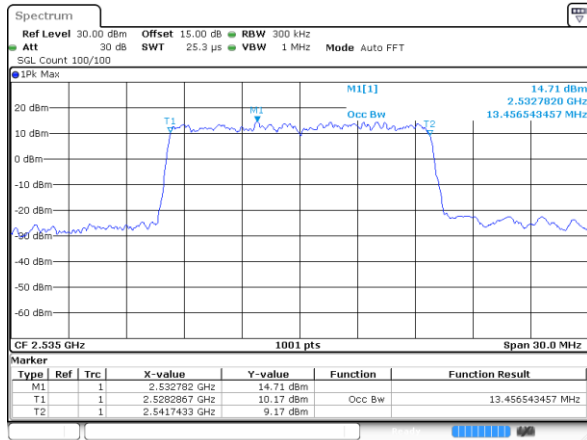
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.50	9.03	9.01	13.46	13.43	17.90	17.98



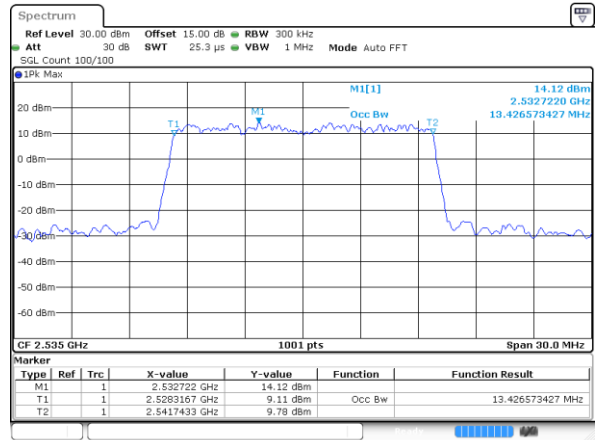


LTE Band 7

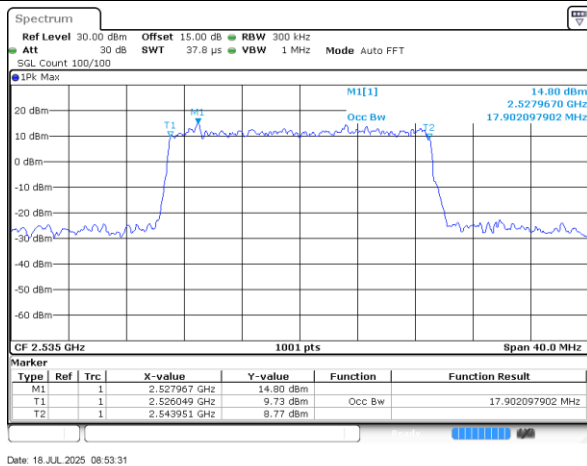
Middle Channel / 15MHz / QPSK



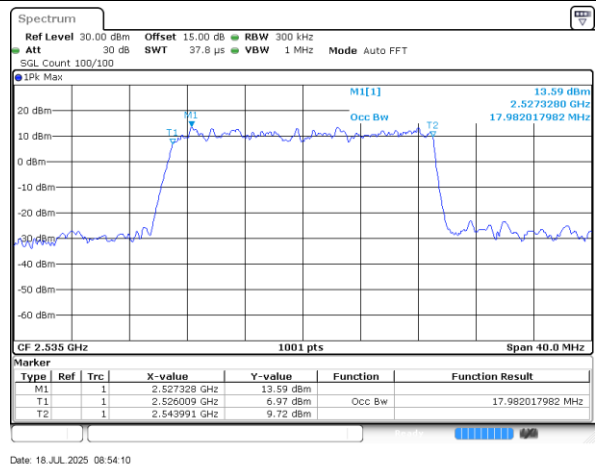
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

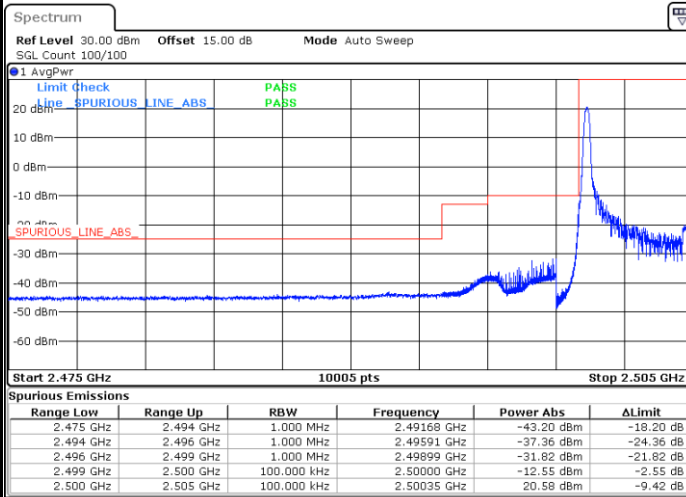




Conducted Band Edge

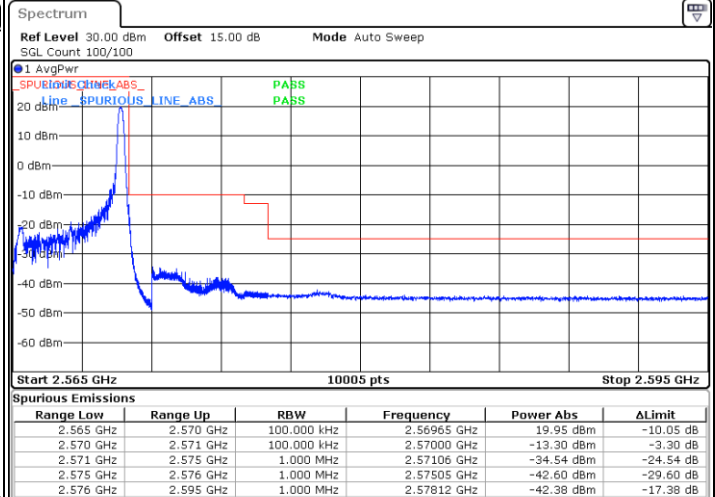
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



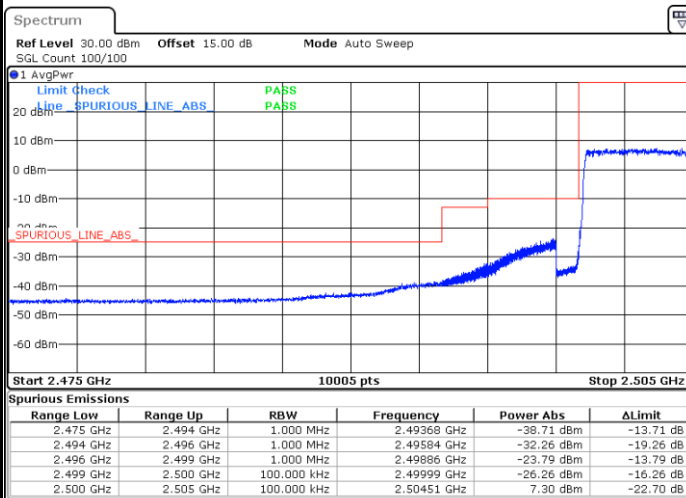
Date: 18 JUL 2025 08:09:09

Highest Band Edge / 1 RB



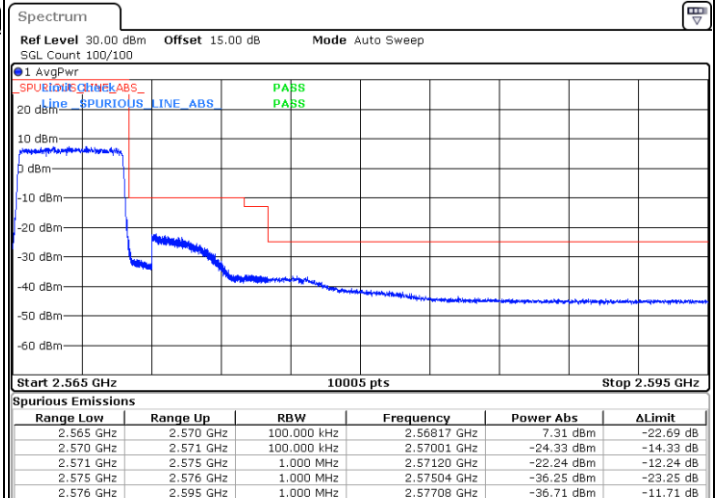
Date: 18 JUL 2025 08:16:37

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:11:11

Highest Band Edge / Full RB

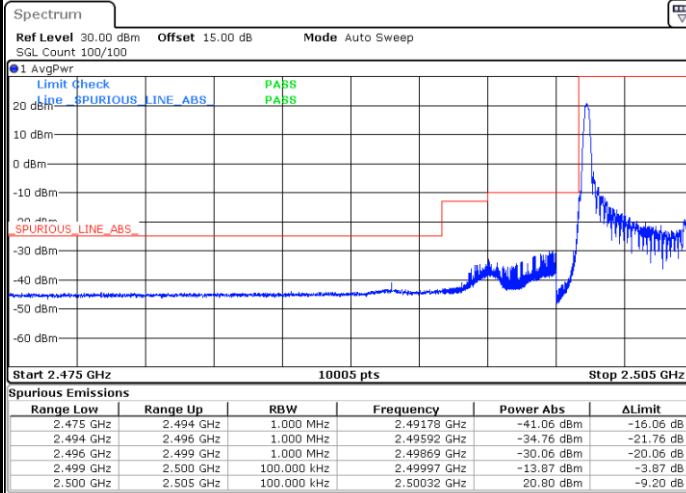


Date: 18 JUL 2025 08:18:42



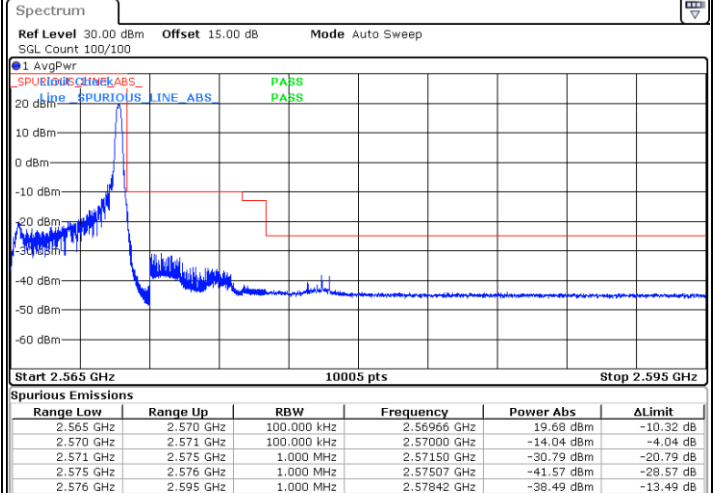
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



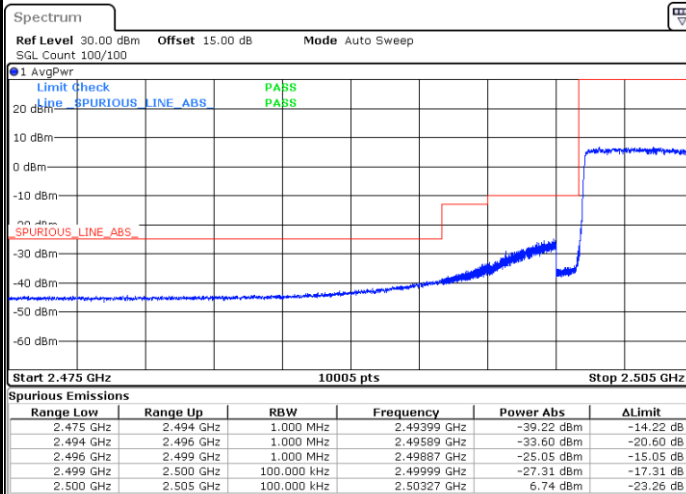
Date: 18 JUL 2025 08:09:50

Highest Band Edge / 1 RB



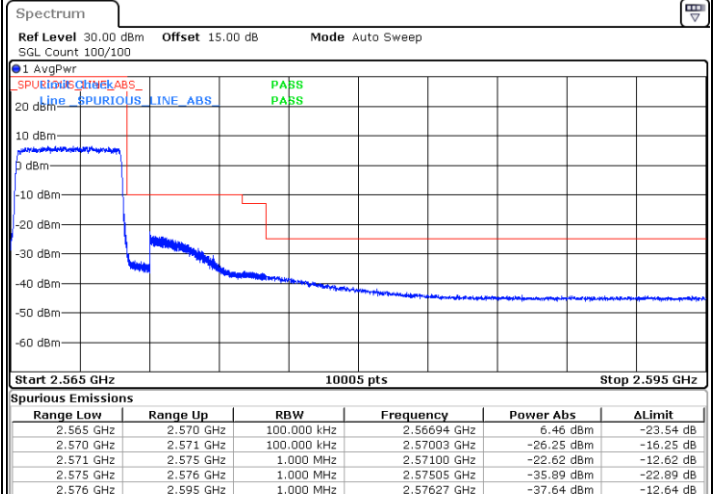
Date: 18 JUL 2025 08:17:18

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:11:51

Highest Band Edge / Full RB

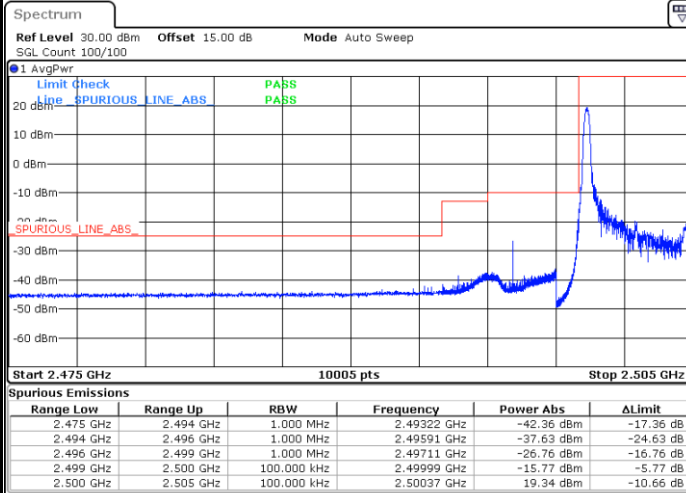


Date: 18 JUL 2025 08:19:22

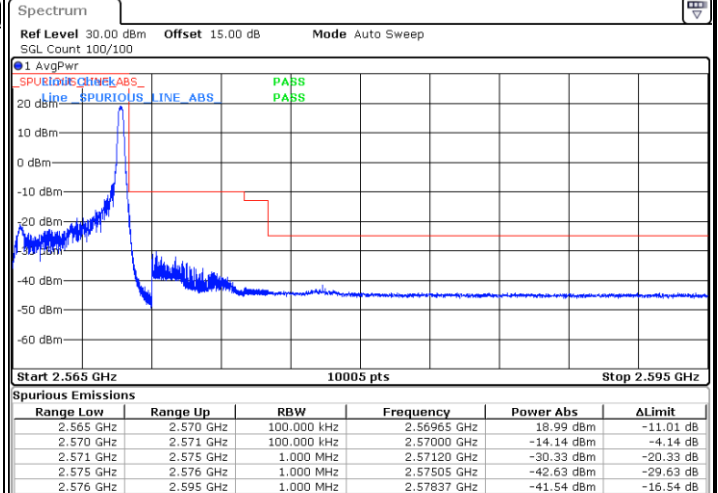


LTE Band 7 / 5MHz / 64QAM

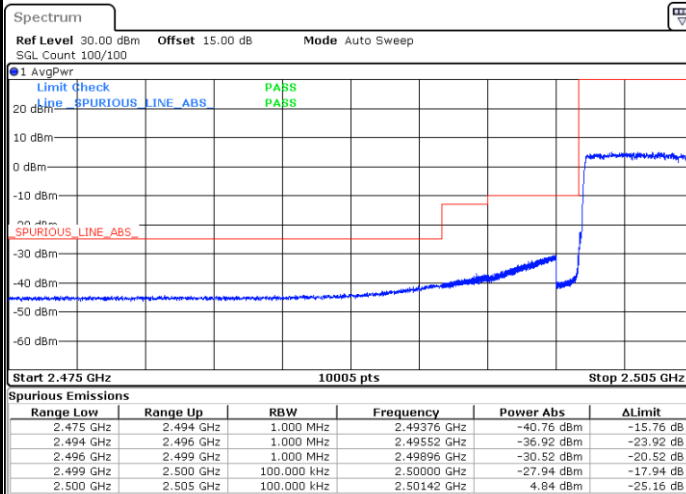
Lowest Band Edge / 1RB



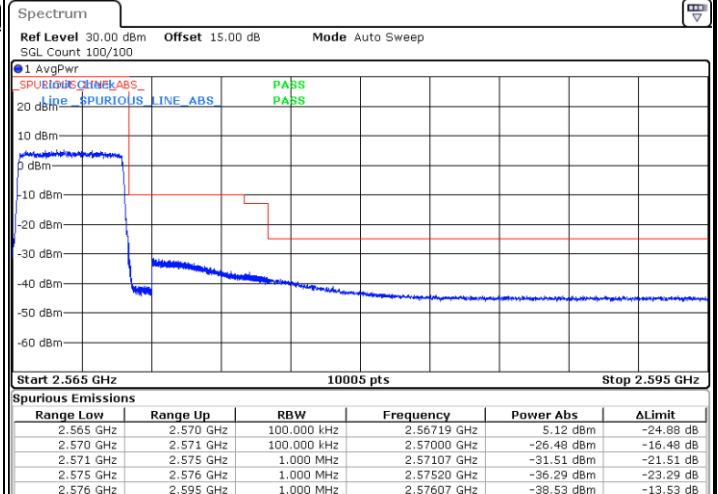
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



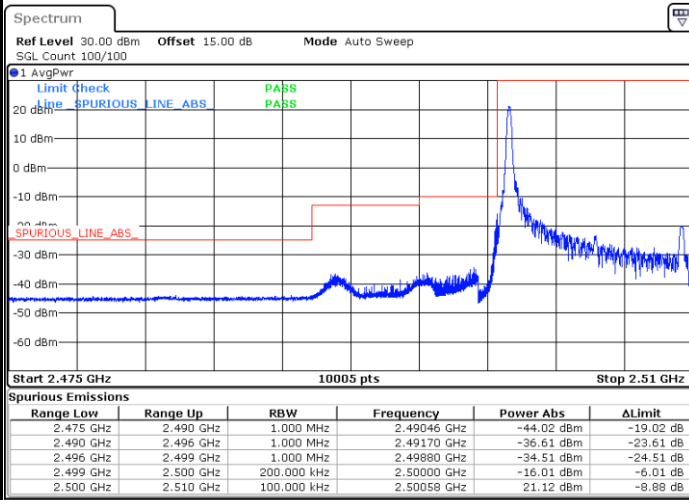
Highest Band Edge / Full RB





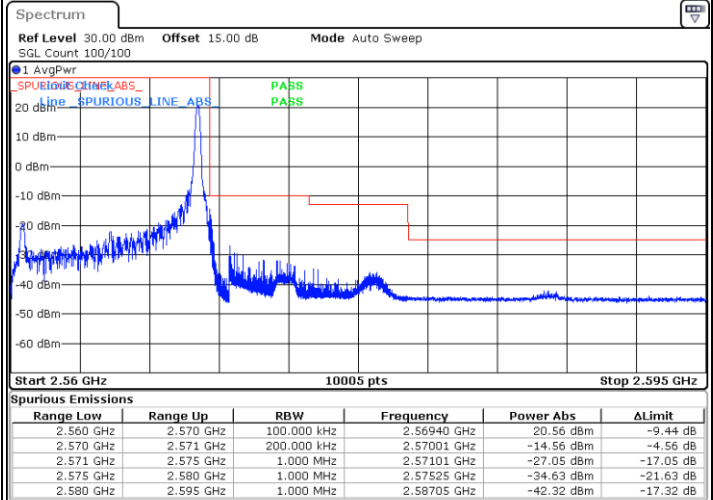
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



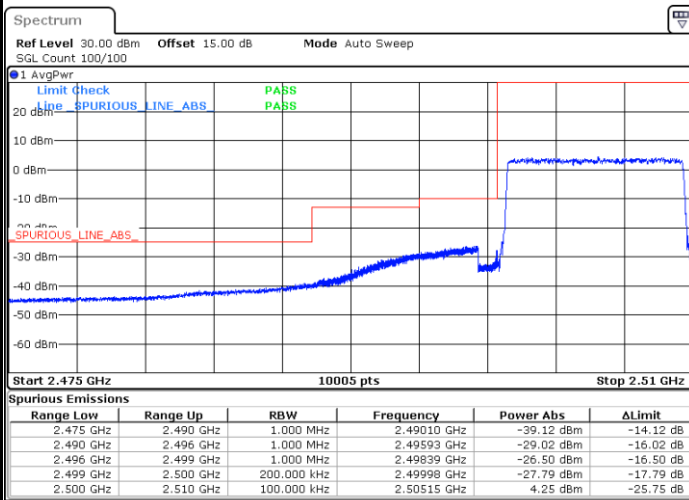
Date: 18 JUL 2025 08:21:49

Highest Band Edge / 1 RB



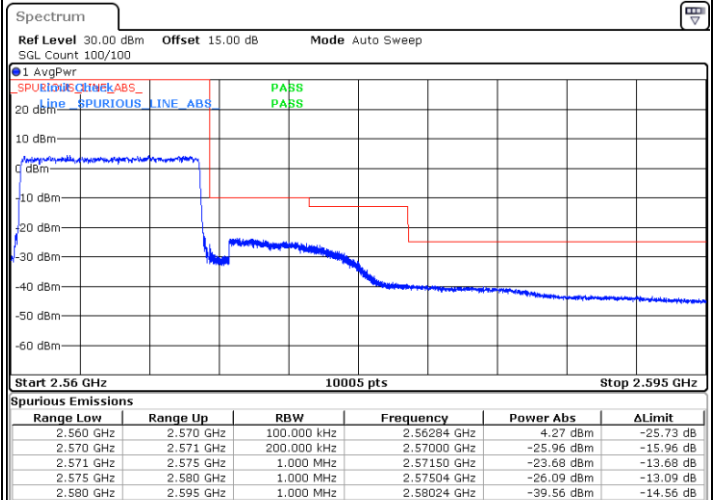
Date: 18 JUL 2025 08:29:15

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:23:49

Highest Band Edge / Full RB

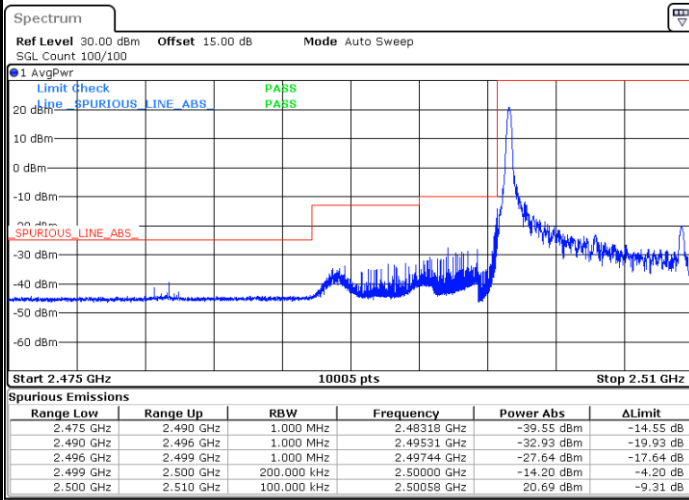


Date: 18 JUL 2025 08:31:15



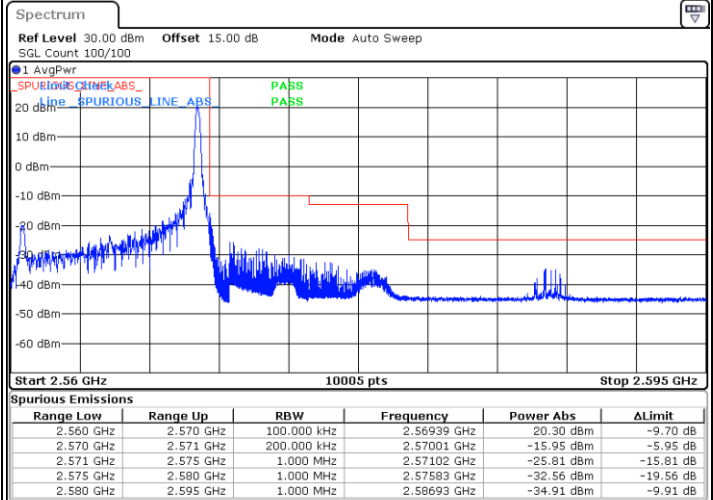
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



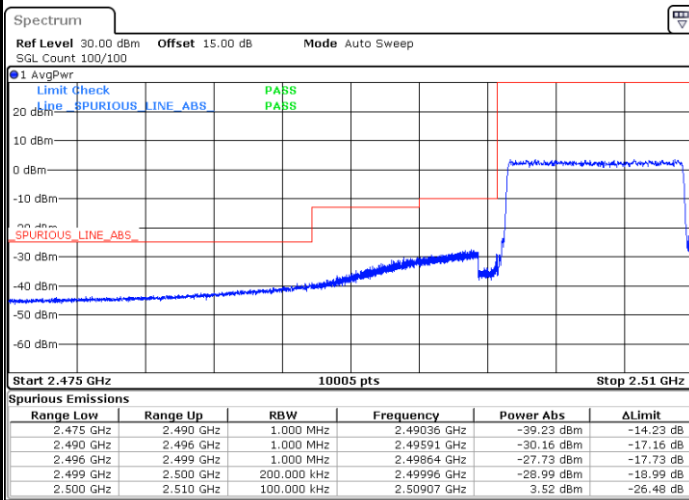
Date: 18 JUL 2025 08:22:29

Highest Band Edge / 1 RB



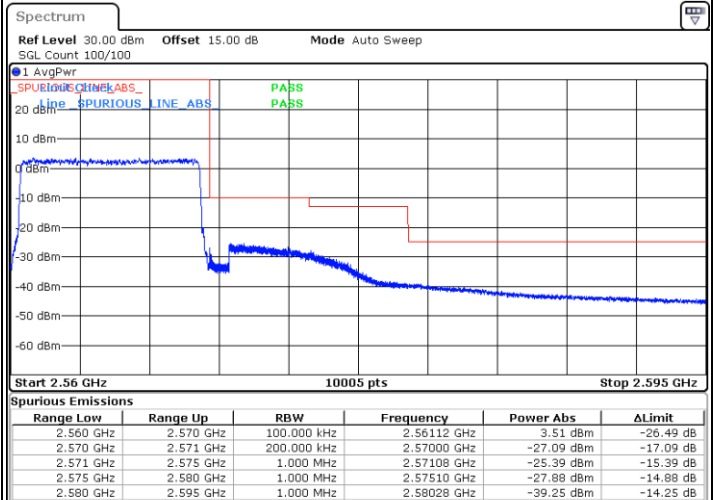
Date: 18 JUL 2025 08:29:55

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:24:29

Highest Band Edge / Full RB

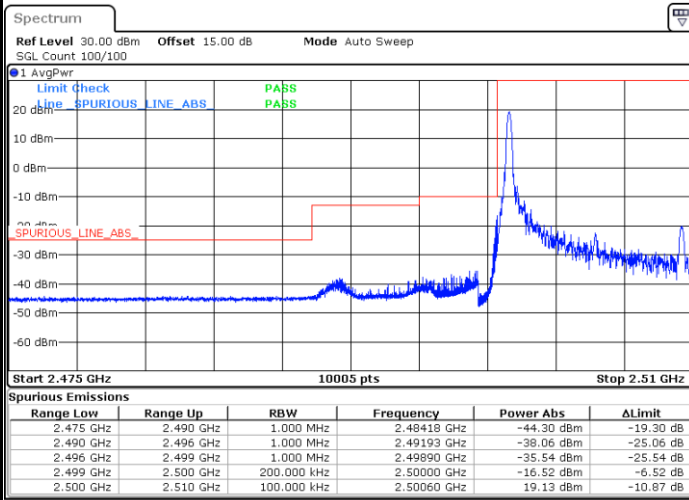


Date: 18 JUL 2025 08:31:55

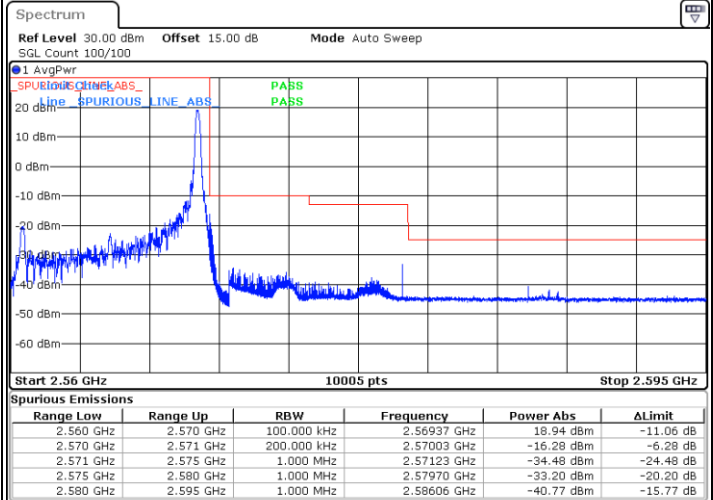


LTE Band 7 / 10MHz / 64QAM

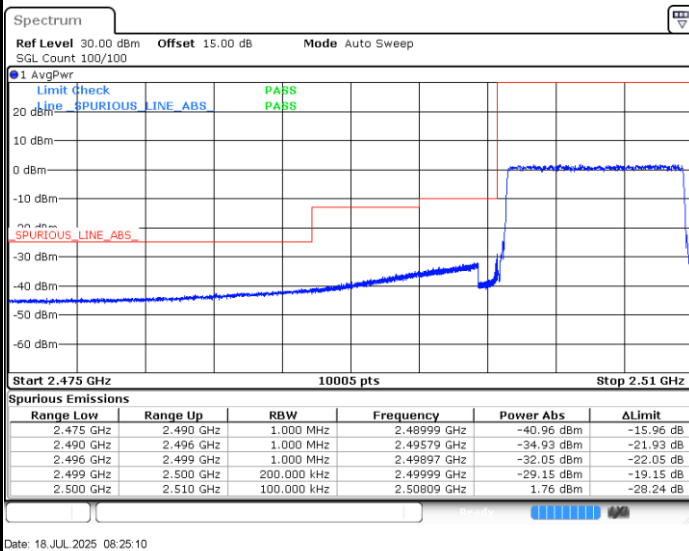
Lowest Band Edge / 1RB



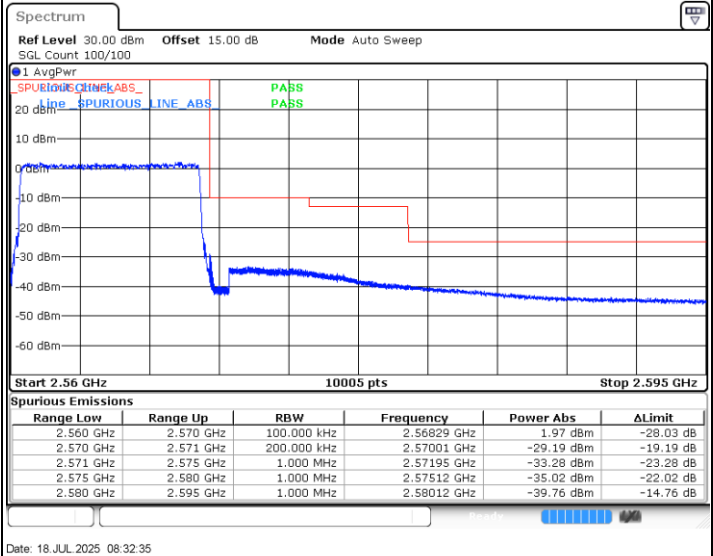
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



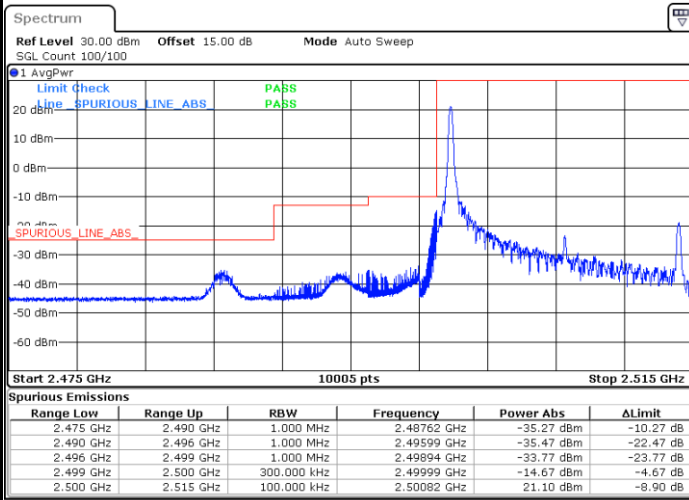
Highest Band Edge / Full RB



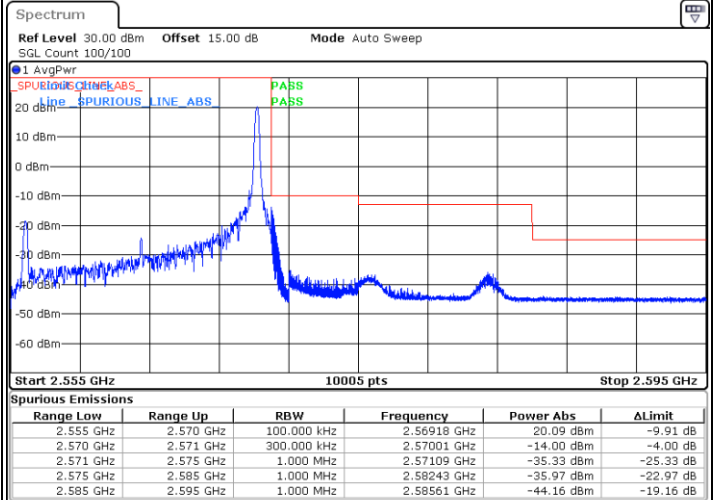


LTE Band 7 / 15MHz / QPSK

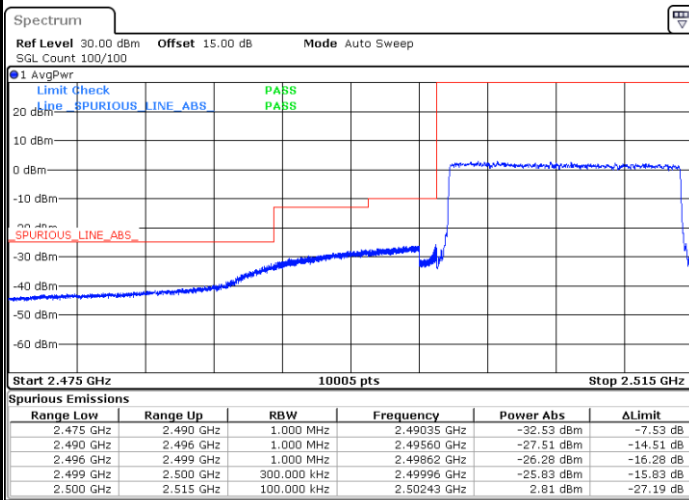
Lowest Band Edge / 1 RB



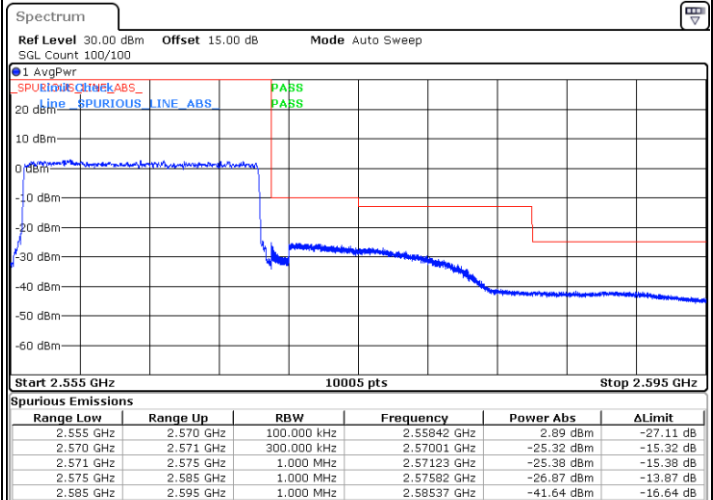
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



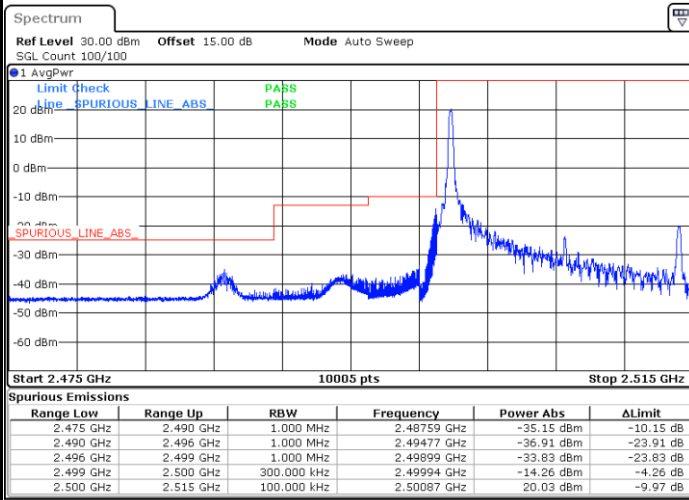
Highest Band Edge / Full RB



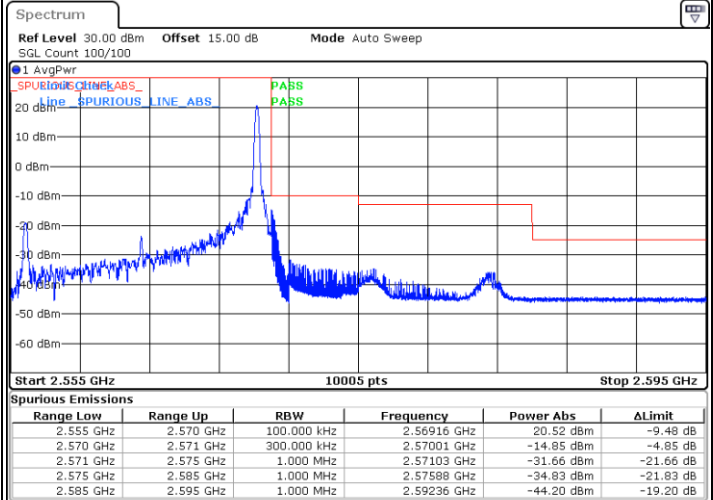


LTE Band 7 / 15MHz / 16QAM

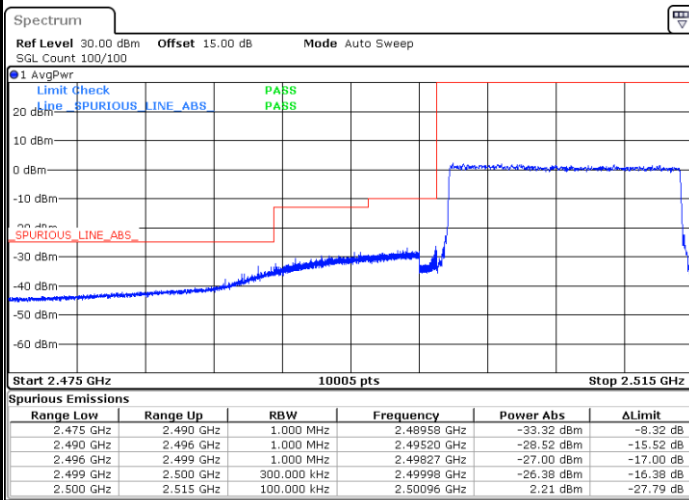
Lowest Band Edge / 1RB



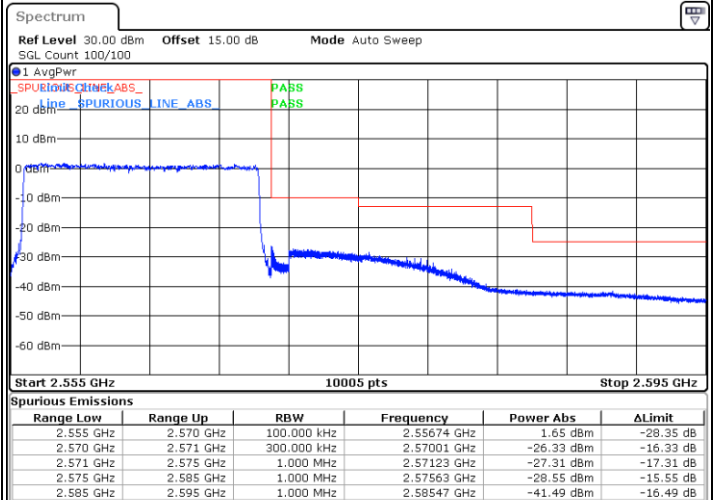
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



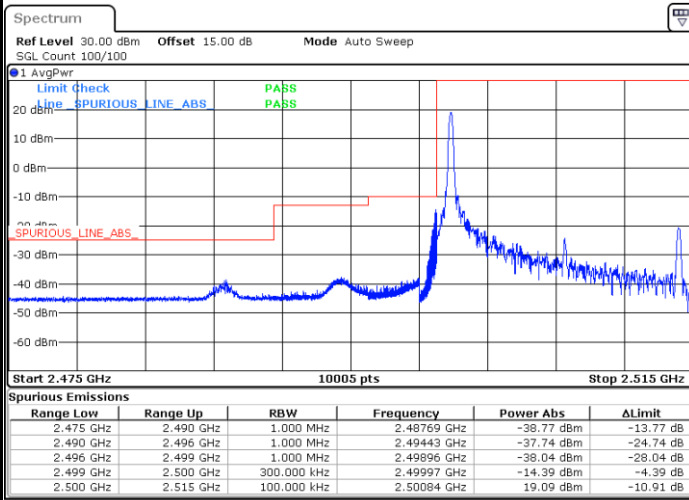
Highest Band Edge / Full RB





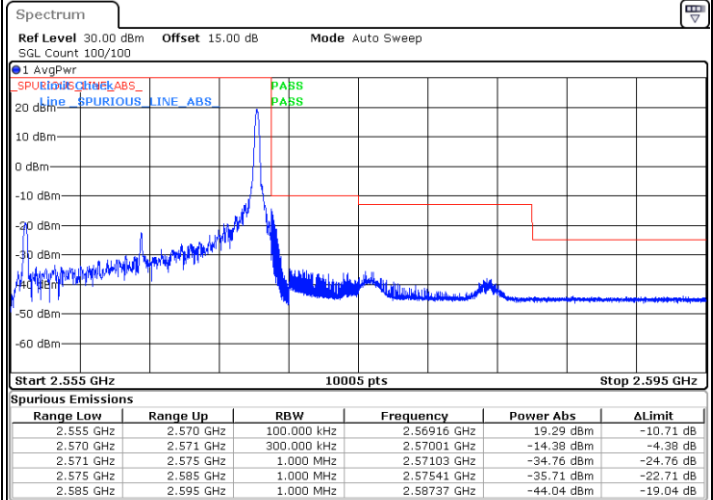
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB



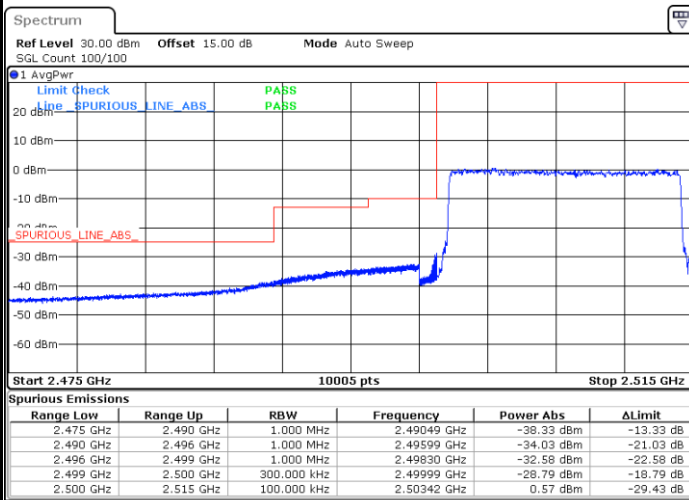
Date: 18 JUL 2025 08:35:43

Highest Band Edge / 1 RB



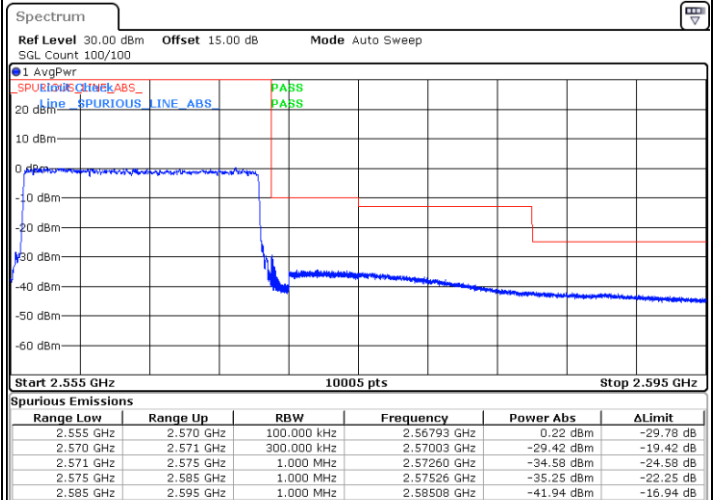
Date: 18 JUL 2025 08:43:09

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:37:44

Highest Band Edge / Full RB

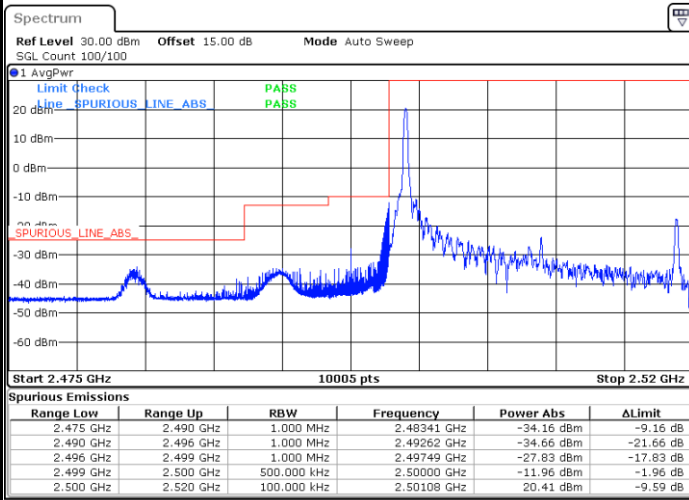


Date: 18 JUL 2025 08:45:10

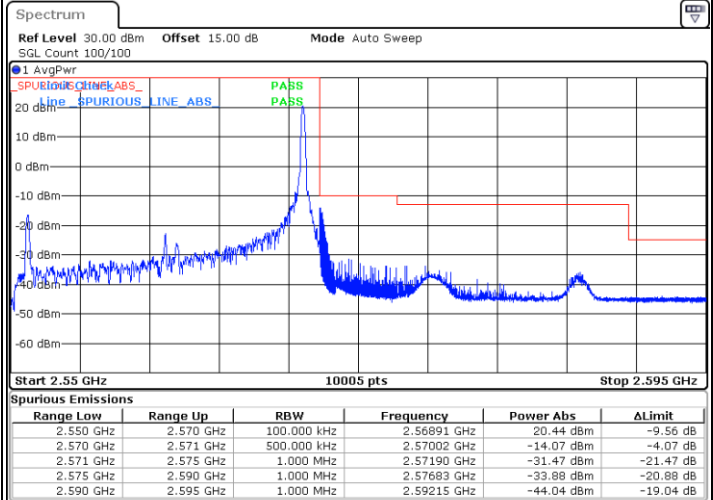


LTE Band 7 / 20MHz / QPSK

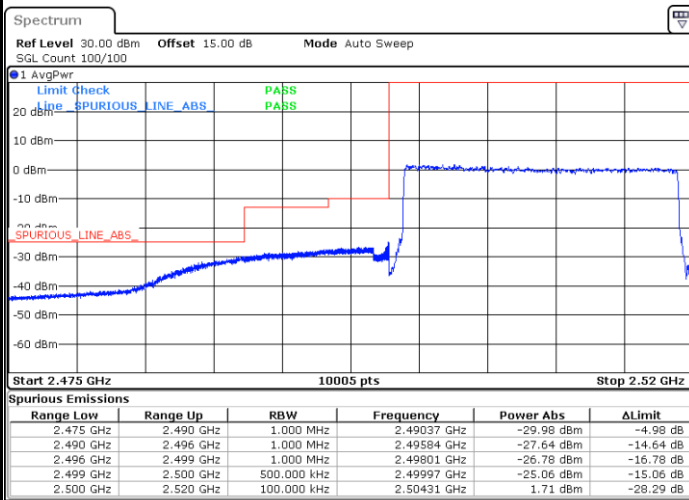
Lowest Band Edge / 1 RB



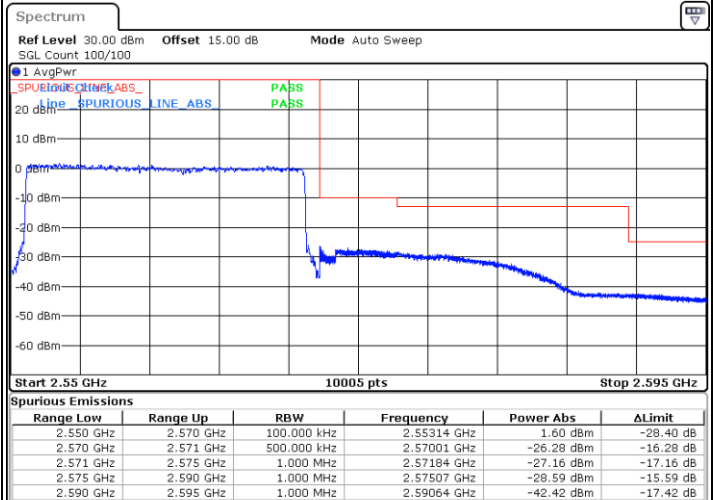
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



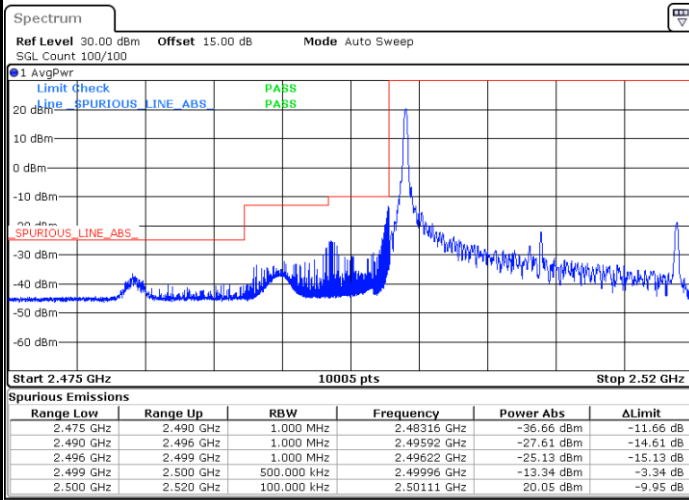
Highest Band Edge / Full RB





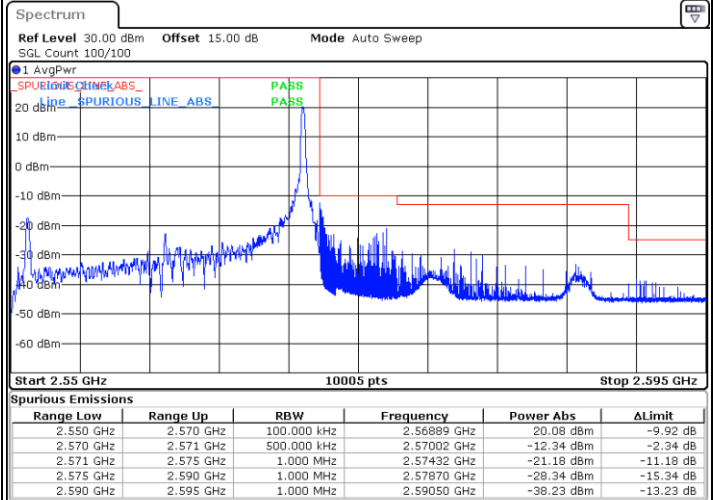
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB



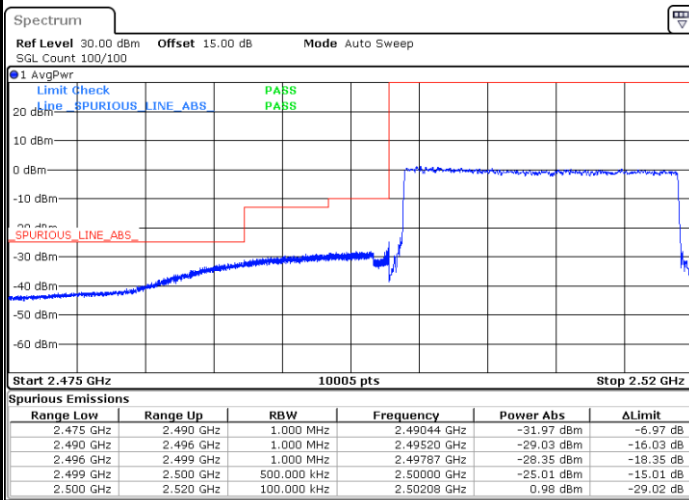
Date: 18 JUL 2025 08:48:17

Highest Band Edge / 1 RB



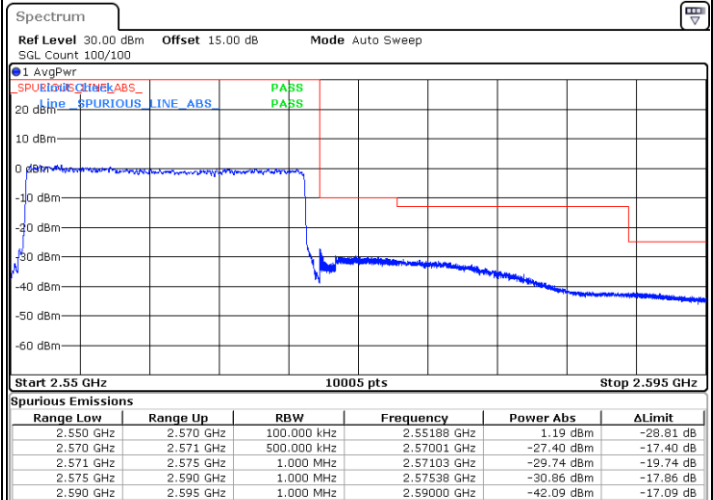
Date: 18 JUL 2025 08:57:04

Lowest Band Edge / Full RB



Date: 18 JUL 2025 08:50:18

Highest Band Edge / Full RB

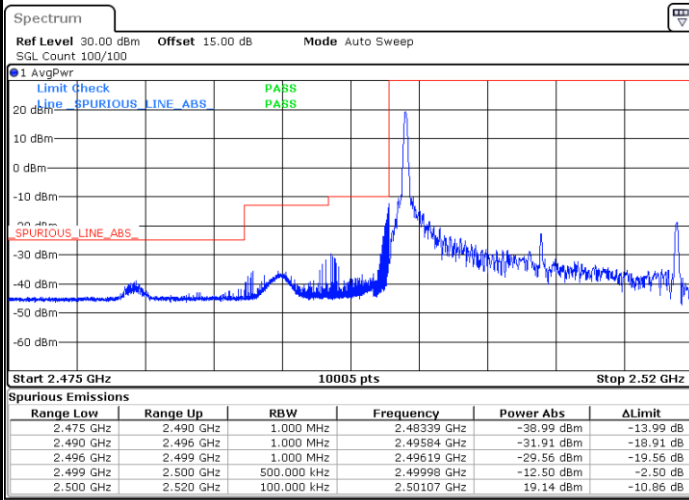


Date: 18 JUL 2025 08:59:04

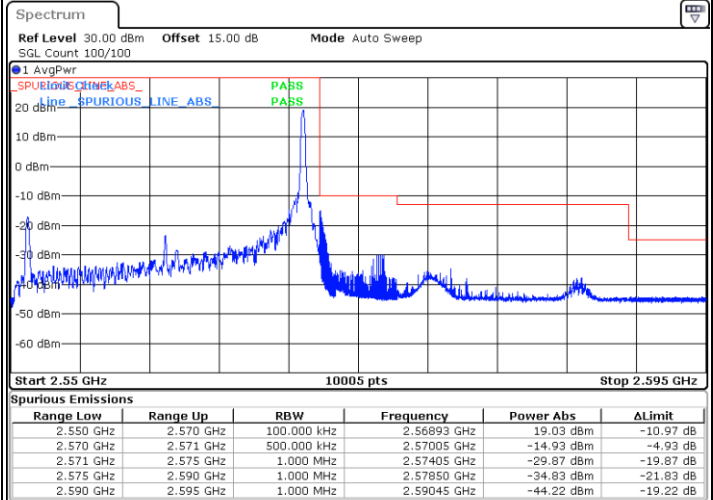


LTE Band 7 / 20MHz / 64QAM

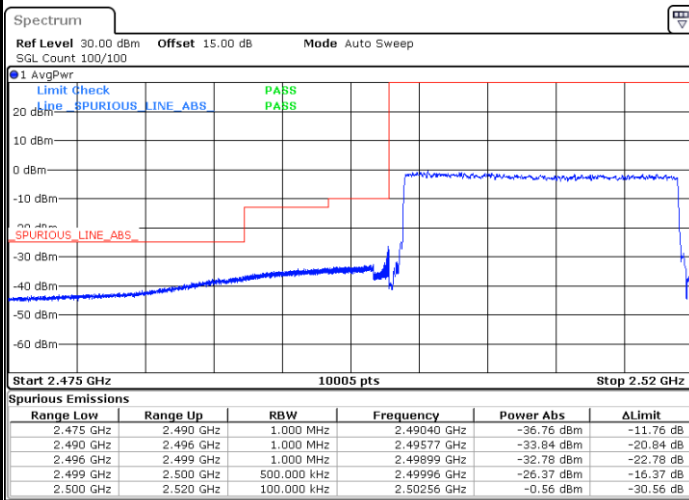
Lowest Band Edge / 1RB



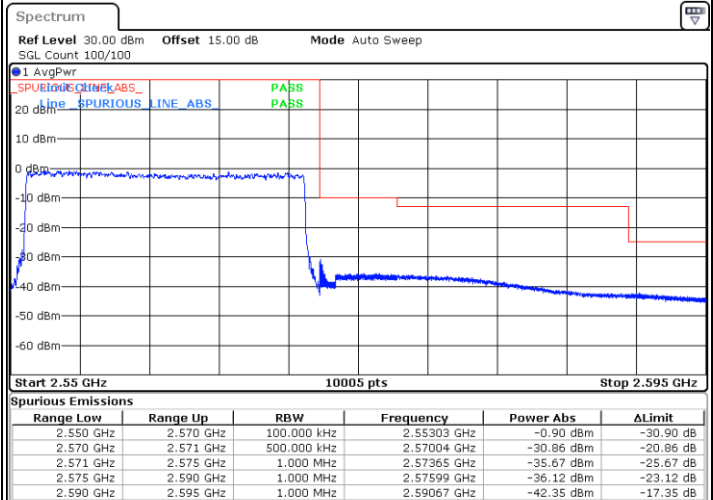
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

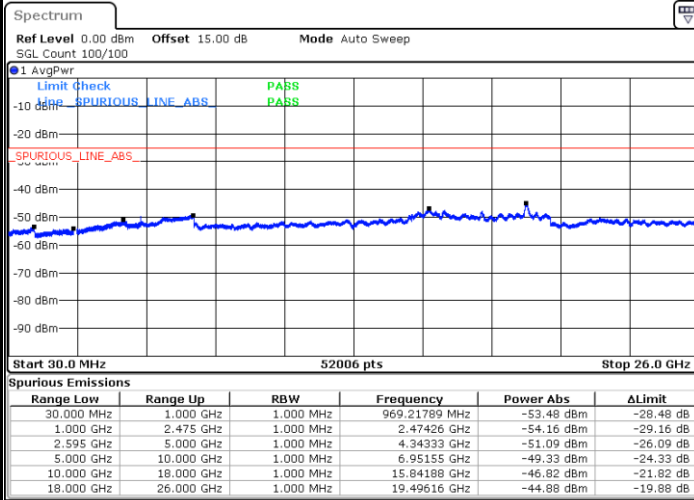




Conducted Spurious Emission

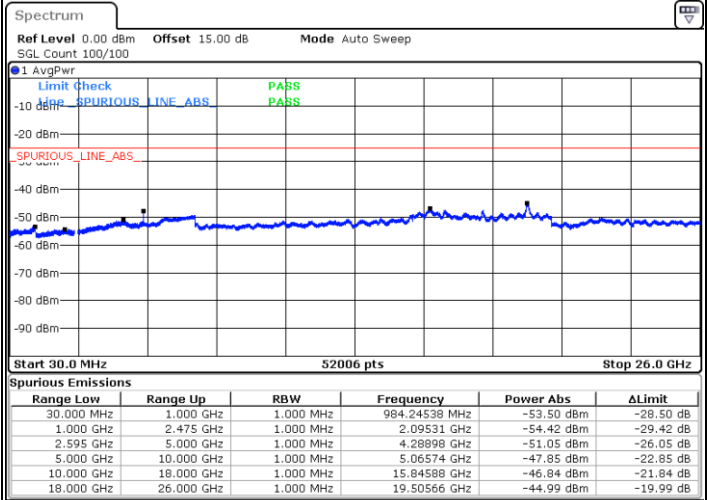
LTE Band 7 / 5MHz

Lowest Channel / QPSK



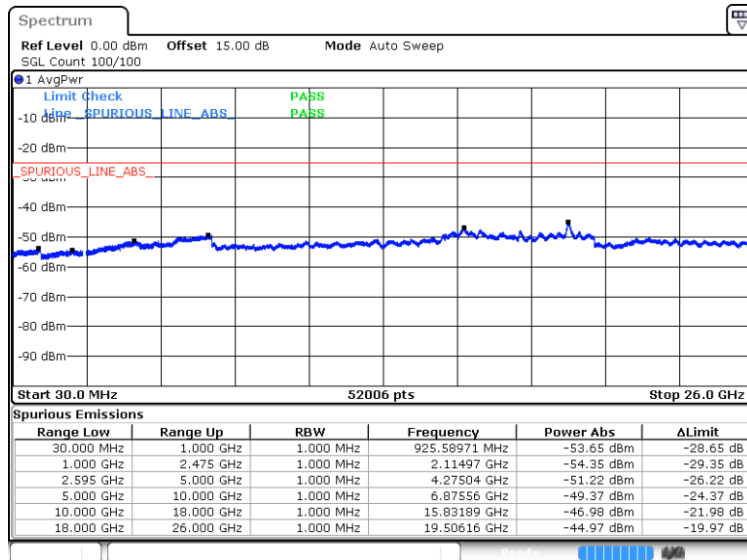
Date: 18 JUL 2025 08:13:35

Middle Channel / QPSK



Date: 18 JUL 2025 08:14:38

Highest Channel / QPSK

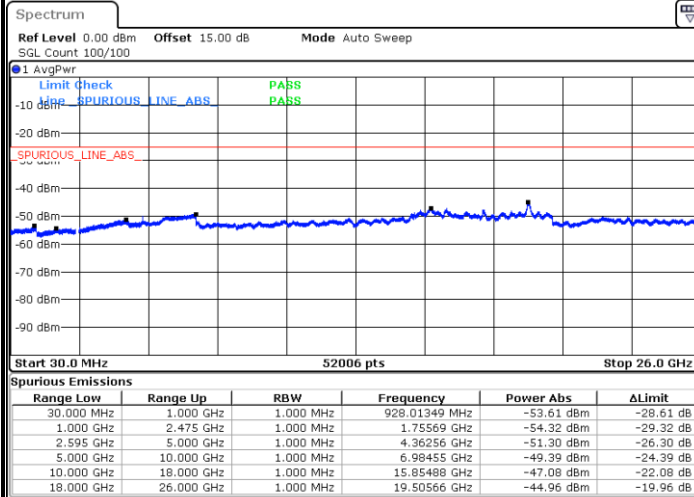


Date: 18 JUL 2025 08:21:06



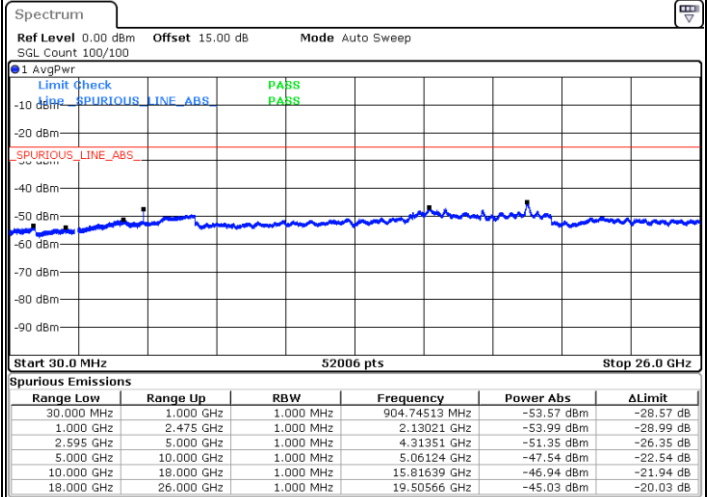
LTE Band 7 / 10MHz

Lowest Channel / QPSK



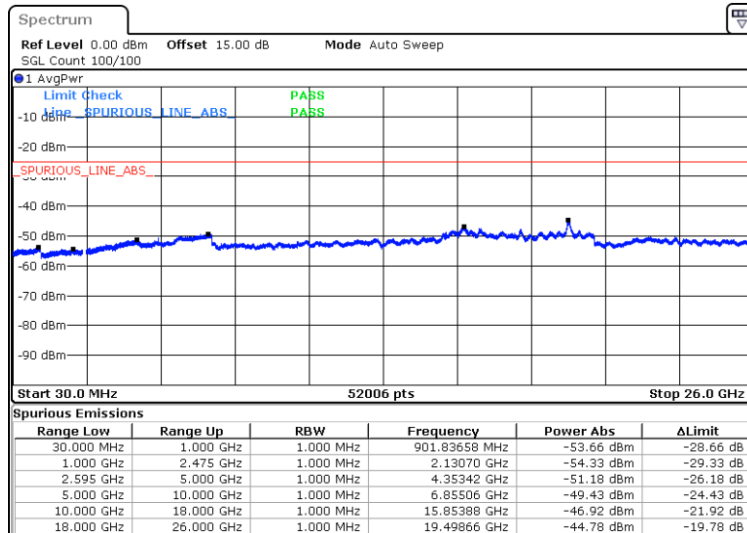
Date: 18 JUL 2025 08:26:13

Middle Channel / QPSK



Date: 18 JUL 2025 08:27:16

Highest Channel / QPSK

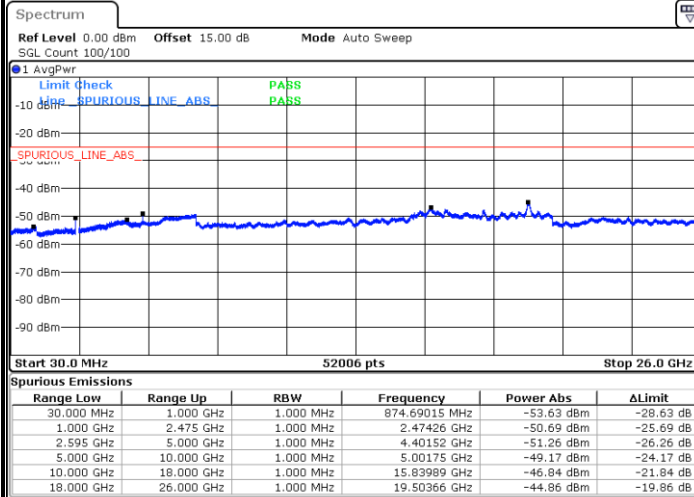


Date: 18 JUL 2025 08:33:39



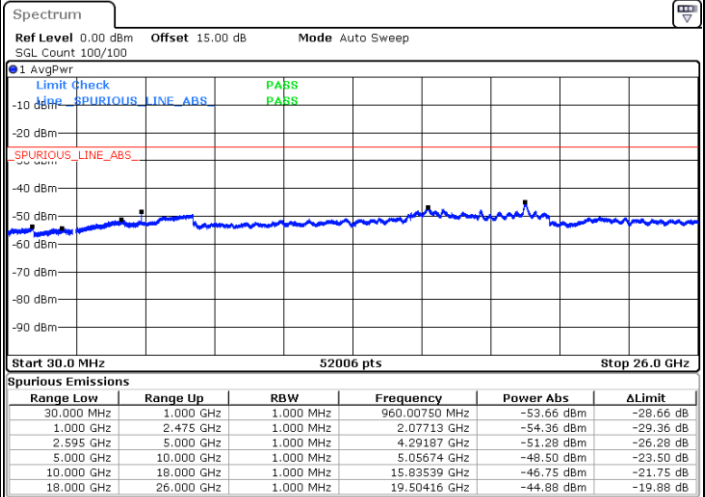
LTE Band 7 / 15MHz

Lowest Channel / QPSK



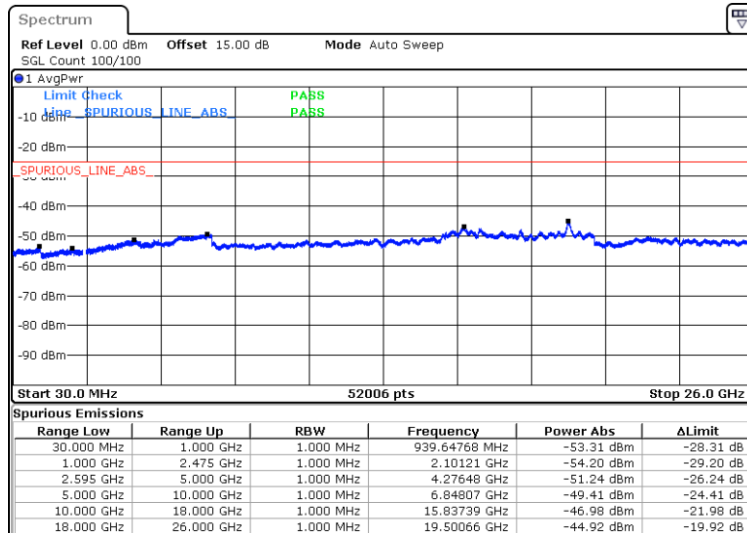
Date: 18 JUL 2025 08:38:48

Middle Channel / QPSK



Date: 18 JUL 2025 08:39:50

Highest Channel / QPSK

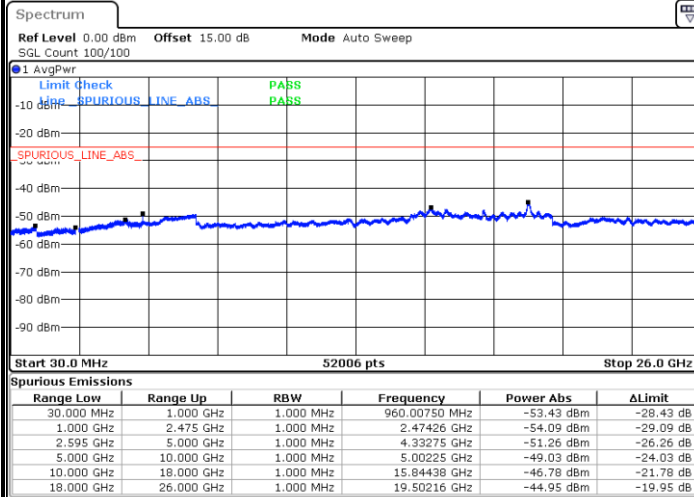


Date: 18 JUL 2025 08:46:14



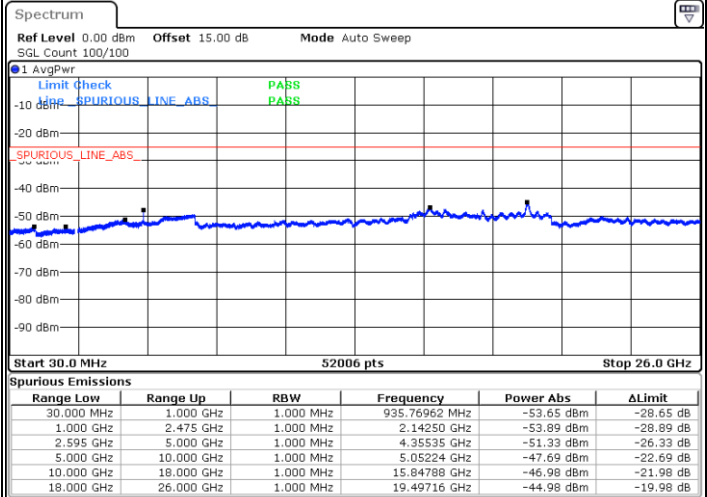
LTE Band 7 / 20MHz

Lowest Channel / QPSK



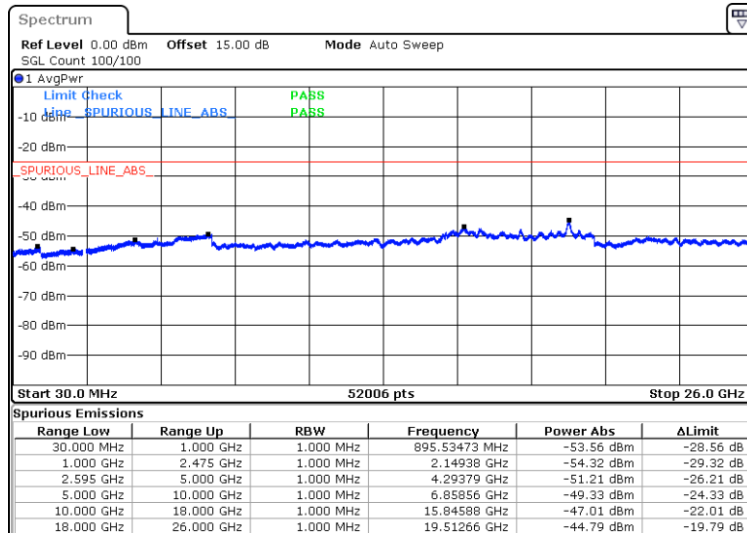
Date: 18 JUL 2025 08:52:02

Middle Channel / QPSK



Date: 18 JUL 2025 08:53:05

Highest Channel / QPSK



Date: 18 JUL 2025 09:00:48

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	0.0035	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

Note:

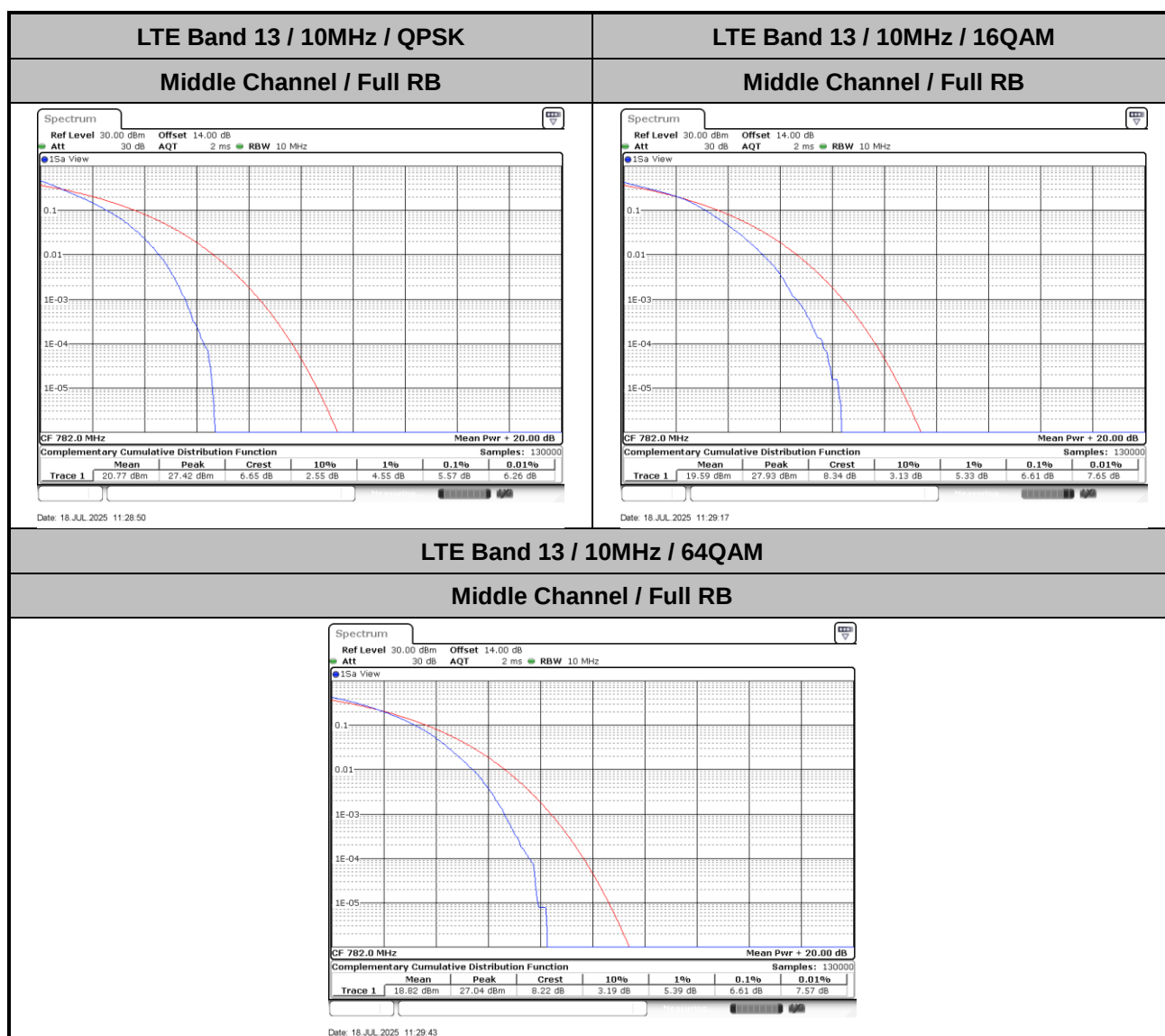
1. Normal Voltage = 3.91 V.; Battery End Point (BEP) = 3.7 V.; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	5.57	6.61	6.61	PASS



**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	-	-	-	-	4.88	4.95	9.89	9.77	-	-	-	-

