



FCC RF Test Report

APPLICANT : Realme Chongqing Mobile Telecommunications Corp., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : realme
MODEL NAME : RMX5078
FCC ID : 2AUYFRMX5078
STANDARD : 47 CFR Part 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Feb. 06, 2025 ~ Feb. 24, 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.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D2714C	Rev. 01	Initial issue of report	Mar. 05, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)	PASS	-
3.8	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])	PASS	Under limit 25.58 dB at 10149.00 MHz

Conformity Assessment Condition:

- 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.
- 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

Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.2 Manufacturer

Realme Chongqing Mobile Telecommunications Corp., Ltd.
No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	realme
Model Name	RMX5078
FCC ID	2AUYFRMX5078
IMEI Code	Conducted: 865317070019817/865317070019809 Radiation: 865317070019718/865317070019700
HW Version	11
SW Version	realme UI 6.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 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 38: 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant.1> LTE Band 7 : 22.86 dBm LTE CA_7B : 22.62 dBm LTE CA_7C : 22.70 dBm LTE Band 38 : 23.14 dBm LTE CA_38C : 23.05 dBm LTE Band 41 : 23.17 dBm LTE CA_41C : 23.10 dBm <Ant.3> LTE Band 7 : 23.10 dBm LTE CA_7B : 22.96 dBm LTE CA_7C : 23.02 dBm LTE Band 38 : 23.80 dBm LTE CA_38C : 23.54 dBm LTE Band 41 : 23.82 dBm LTE CA_41C : 23.55 dBm <Ant.5> LTE Band 7 : 23.28 dBm LTE Band 38 : 22.20 dBm LTE Band 41 : 21.22 dBm
Antenna Gain	<Ant.1> LTE Band 7/38/41 : 0.38 dBi <Ant.3> LTE Band 7/38/41 : 0.66 dBi <Ant.5> LTE Band 7/38/41 : -3.57 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

Note: The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Antenna 3 for LTE Band7/7B/7C/38/38C/41/41C are shown in the report.

1.5 Modification of EUT

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



1.6 Maximum 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	0.2360	4M50G7D	0.2109	4M51W7D
10	2505.0 ~ 2565.0	0.2350	9M03G7D	0.2084	9M05W7D
15	2507.5 ~ 2562.5	0.2333	13M4G7D	0.2094	13M5W7D
20	2510.0 ~ 2560.0	0.2377	17M9G7D	0.2118	17M8W7D
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	0.2793	4M47G7D	0.2355	4M49W7D
10	2575.0 ~ 2615.0	0.2754	9M09G7D	0.2328	8M99W7D
15	2577.5 ~ 2612.5	0.2773	13M4G7D	0.2328	13M5W7D
20	2580.0 ~ 2610.0	0.2793	17M9G7D	0.2360	17M8W7D
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	0.2748	4M47G7D	0.2218	4M49W7D
10	2501.0 ~ 2685.0	0.2716	9M09G7D	0.2218	8M99W7D
15	2503.5 ~ 2682.5	0.2735	13M4G7D	0.2259	13M5W7D
20	2506.0 ~ 2680.0	0.2805	17M9G7D	0.2296	17M8W7D
LTE Band 7 CA		QPSK		16QAM/64QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz		0.2223	28M2G7D	0.1742	28M1W7D
15MHz+15MHz		0.2203	28M7G7D	0.1738	28M7W7D
15MHz+20MHz		0.2254	32M9G7D	0.1750	32M9W7D
15MHz+10MHz		0.2265	23M5G7D	0.1694	23M5W7D
20MHz+10MHz		0.2198	28M1G7D	0.1702	28M1W7D
20MHz+15MHz		0.2265	33M0G7D	0.1762	32M9W7D
20MHz+20MHz		0.2333	37M7G7D	0.1849	37M8W7D



LTE Band CA_7B	QPSK		16QAM/64QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
15MHz+5MHz	0.2301	18M2G7D	0.1803	18M3W7D
LTE Band CA_38C	QPSK		16QAM/64QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
15MHz+15MHz	0.2535	28M7G7D	0.1892	28M5W7D
20MHz+20MHz	0.2630	37M8G7D	0.1954	37M8W7D
LTE Band CA_41C	QPSK		16QAM/64QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz	0.2489	23M3G7D	0.2000	23M2W7D
10MHz+20MHz	0.2460	28M2G7D	0.1910	28M0W7D
10MHz+15MHz	0.2460	23M3G7D	0.1941	23M6W7D
15MHz+15MHz	0.2506	28M7G7D	0.1945	28M5W7D
15MHz+20MHz	0.2523	32M9G7D	0.1910	33M0W7D
15MHz+10MHz	0.2529	23M6G7D	0.1954	23M4W7D
20MHz+5MHz	0.2460	23M4G7D	0.1991	23M3W7D
20MHz+10MHz	0.2443	28M2G7D	0.1986	27M9W7D
20MHz+15MHz	0.2547	32M9G7D	0.1982	32M9W7D
20MHz+20MHz	0.2636	37M8G7D	0.2032	37M8W7D

Note:

1. LTE Band 41/41C overlaps the entire frequency range of LTE Band 38/38C. Therefore, the test results provided in this report covers Band 41/41C as well as Band 38/38C.
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(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)

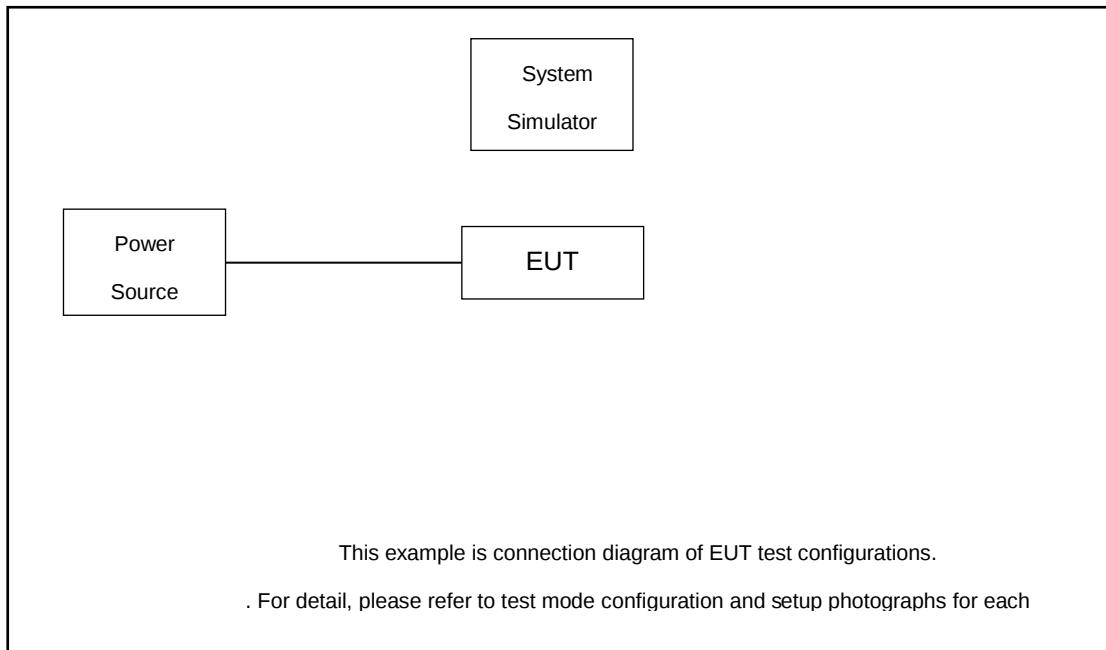
Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v	-			v		v	
	41	-	-				v	v	v	v	-			v		v	
26dB and 99% Bandwidth	7	-	-	v	v	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
	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
	41	-	-	v	v	v	v	v			-	v			v	v	v
Frequency Stability	7	-	-		v			v			-			v		v	
	41	-	-		v			v			-			v		v	
E.I.R.P	7	-	-	v	v	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	
	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.																



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v				v		v	
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v				v		v	
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v			v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v			v			v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																	v	
	41C_CA	Worst Case																	v	
Note	1. 2. 3.	The mark “v ” means that this configuration is chosen for testing The mark “- ” means that this bandwidth is not supported. 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.																		

Test Items	Band	Bandwidth (MHz)								Modulation			RB #			Test Channel		
		10+10	15+5	5+15	10+5	5+10	5+5	5+3	3+5	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7B_CA	-	v	-	-	-	-	-	-	v	v	v	v			v	v	v
26dB and 99% Bandwidth	7B_CA	-	v	-	-	-	-	-	-	v	v				v		v	
Conducted Band Edge	7B_CA	-	v	-	-	-	-	-	-	v	v	v	v		v	v		v
Conducted Spurious Emission	7B_CA	-	v	-	-	-	-	-	-	v			v			v	v	v
E.I.R.P.	7B_CA	-	v	-	-	-	-	-	-	v	v	v	v			v	v	v
Radiated Spurious Emission	7B_CA	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 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



LTE Band 7C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 38C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15+ 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

LTE Band 7B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
15 + 5	PCC	Channel	20825	21076	21327
		Frequency	2507.5	2532.6	2557.7
	SCC	Channel	20918	21169	21420
		Frequency	2516.8	2541.9	2567.0

3 Conducted Test Items

3.1 Measuring Instruments

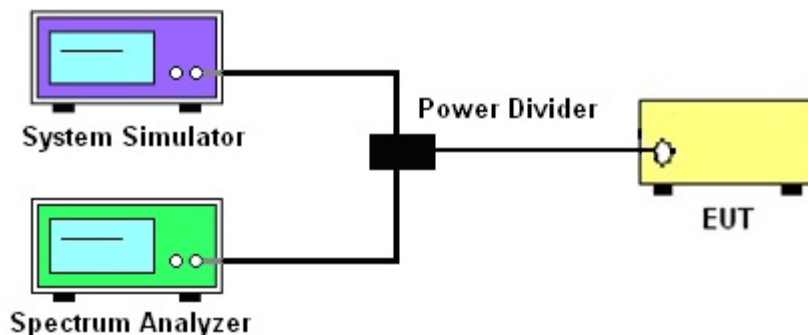
See list of measuring instruments of this test report.

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 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

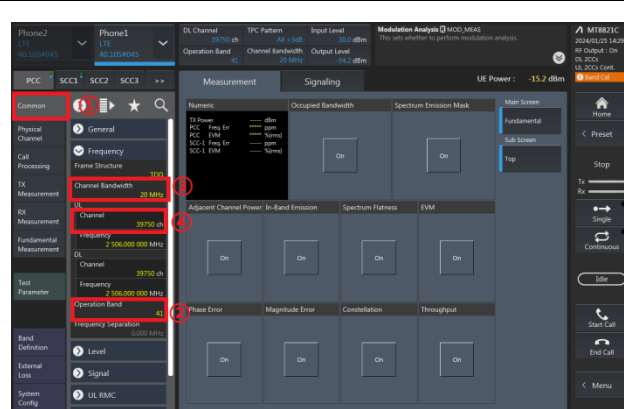
3.4.2 Test Procedures

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.

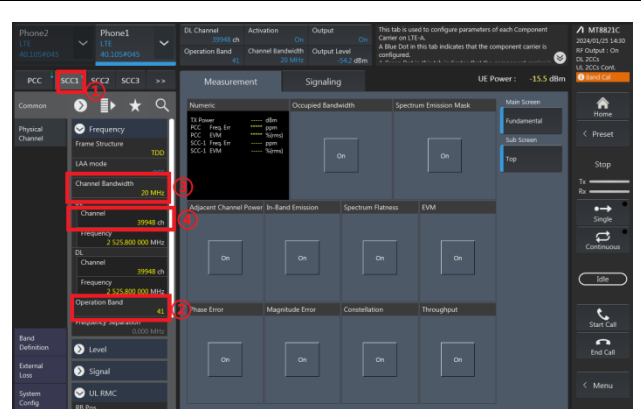
3.4.3 Test Procedures for LTE ULCA

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter PCC & SCC output ports were connected to the system simulator.
3. Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.

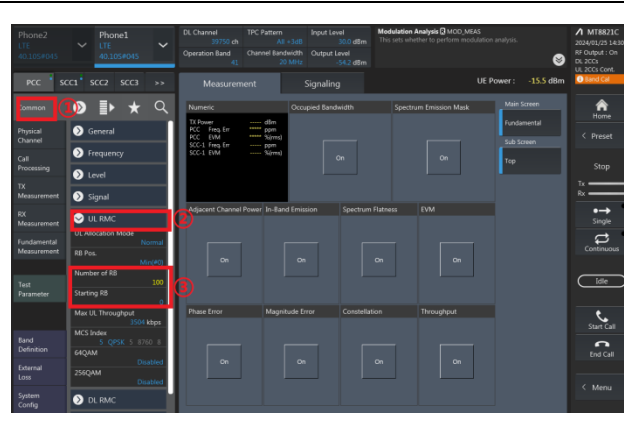
PCC config_ (Channel Bandwidth / Channel / Band)



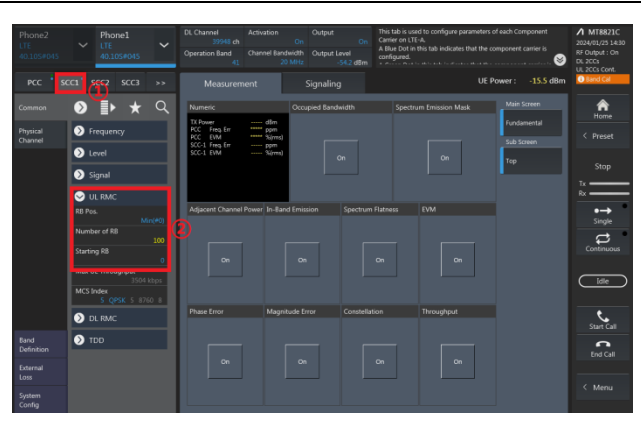
SCC config_ (Channel Bandwidth / Channel / Band)



PCC config_ (Number of RB / Starting RB)

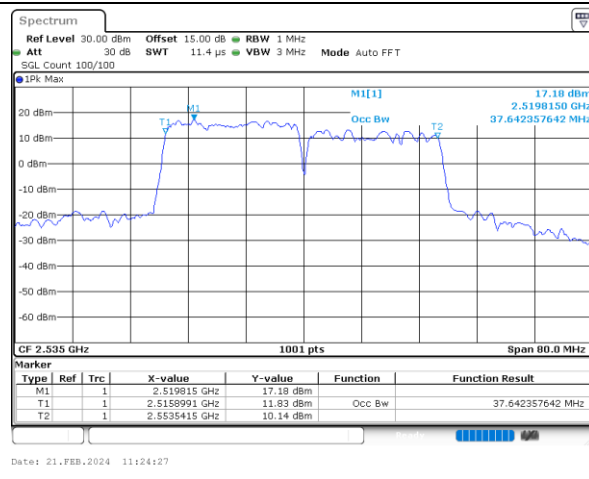


SCC config_ (Number of RB / Starting RB)

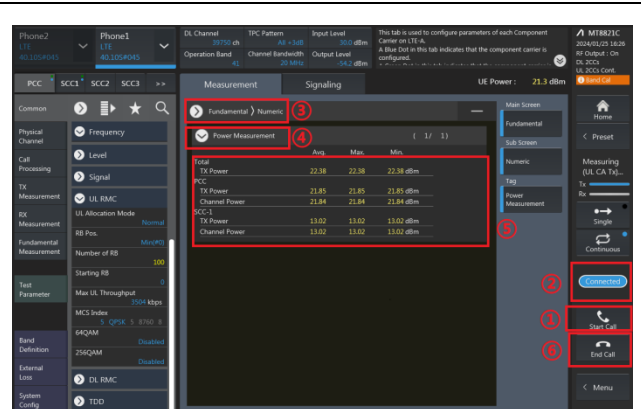


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

Check the ULCA spectrum (eg. 20M+20M)



Read the Total UL CA output power (PCC+SCC)





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(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
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. 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)

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

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

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.
10. 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

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. 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+ 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.

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.

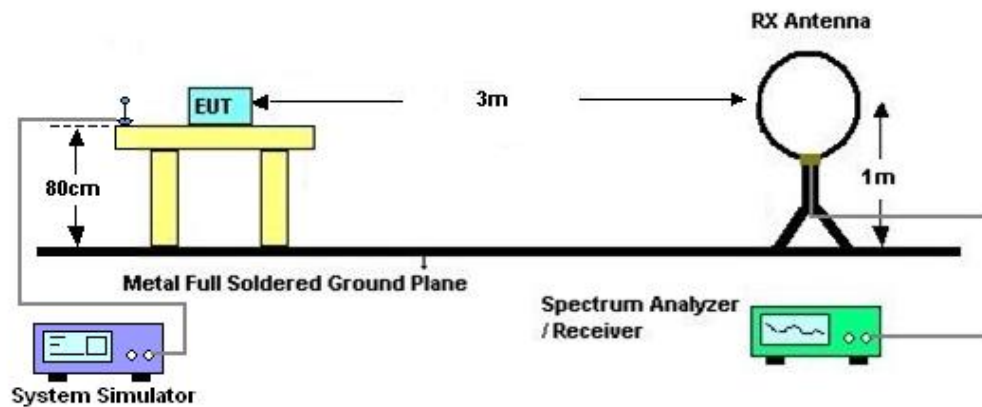
4 Radiated Test Items

4.1 Measuring Instruments

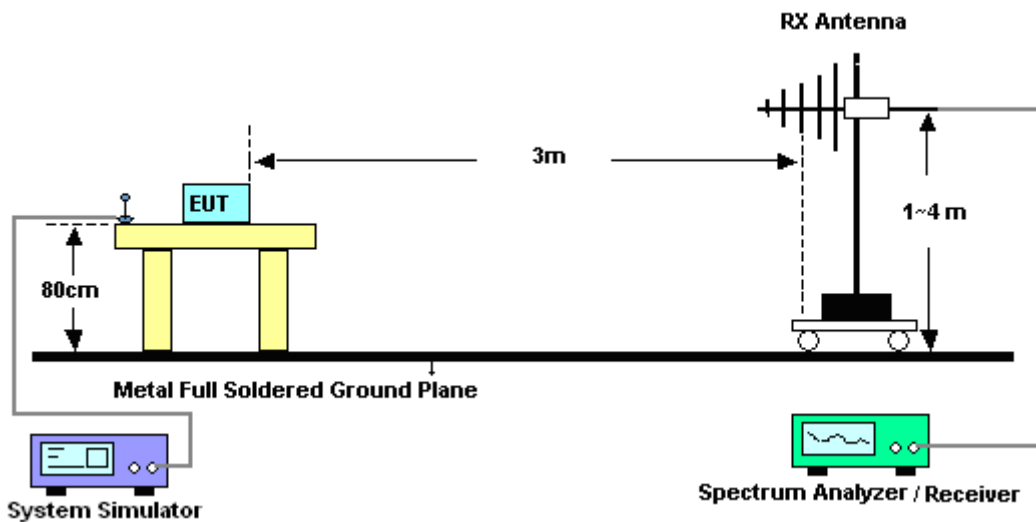
See list of measuring instruments of this test report.

4.2 Test Setup

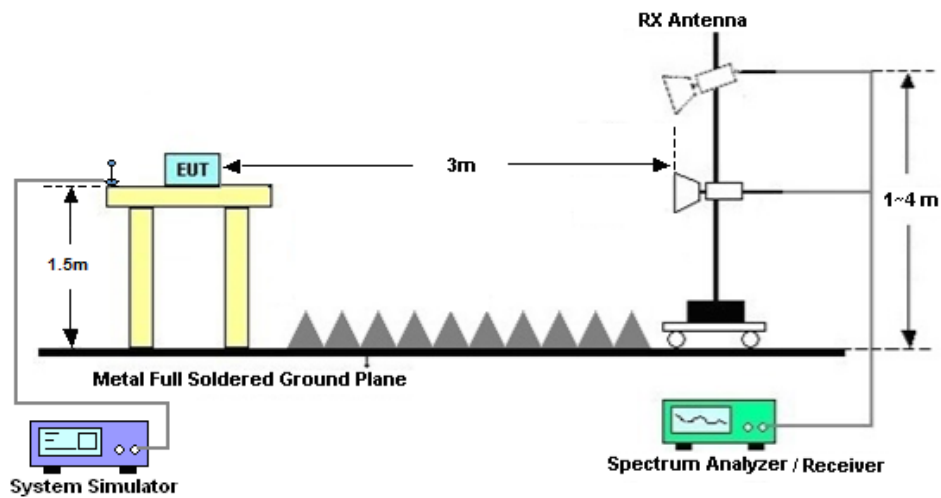
4.2.1 For radiated test below 30MHz



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.

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.

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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Feb. 06, 2025~ Feb. 24, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 24, 2024	Feb. 06, 2025~ Feb. 24, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Feb. 06, 2025~ Feb. 24, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Feb. 13, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Feb. 13, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Feb. 13, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Feb. 13, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Feb. 13, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Feb. 13, 2025	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Feb. 13, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Feb. 13, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Feb. 13, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Feb. 13, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Feb. 13, 2025	NCR	Radiation (03CH02-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
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power) and EIRP

LTE Band7_ANT3:

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	22.98	23.10	23.08	0.2312	0.2377	0.2366
20	QPSK	1	49	22.91	23.03	22.93	0.2275	0.2339	0.2286
20	QPSK	1	99	22.89	22.96	22.98	0.2265	0.2301	0.2312
20	QPSK	50	0	21.95	22.20	22.15	0.1824	0.1932	0.1910
20	QPSK	50	24	21.90	22.11	22.00	0.1803	0.1892	0.1845
20	QPSK	50	50	21.88	22.18	22.01	0.1795	0.1923	0.1849
20	QPSK	100	0	22.00	22.22	22.20	0.1845	0.1941	0.1932
20	16QAM	1	0	22.22	22.34	22.40	0.1941	0.1995	0.2023
20	16QAM	1	49	22.21	22.48	22.55	0.1936	0.2061	0.2094
20	16QAM	1	99	22.37	22.53	22.60	0.2009	0.2084	0.2118
20	16QAM	50	0	20.90	21.12	21.24	0.1432	0.1507	0.1549
20	16QAM	50	24	20.96	21.19	21.29	0.1452	0.1531	0.1567
20	16QAM	50	50	21.00	21.19	21.31	0.1466	0.1531	0.1574
20	16QAM	100	0	20.94	21.17	21.28	0.1445	0.1524	0.1563
20	64QAM	1	0	20.98	21.21	21.37	0.1459	0.1538	0.1596
20	64QAM	1	49	21.10	21.34	21.39	0.1500	0.1585	0.1603
20	64QAM	1	99	21.22	21.36	21.52	0.1542	0.1592	0.1652
20	64QAM	50	0	19.91	20.14	20.23	0.1140	0.1202	0.1227
20	64QAM	50	24	19.94	20.20	20.27	0.1148	0.1219	0.1239
20	64QAM	50	50	19.98	20.20	20.30	0.1159	0.1219	0.1247
20	64QAM	100	0	19.96	20.18	20.27	0.1153	0.1213	0.1239
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	22.94	23.02	22.96	0.2291	0.2333	0.2301
15	QPSK	1	37	22.87	22.91	22.83	0.2254	0.2275	0.2234
15	QPSK	1	74	22.82	22.90	22.90	0.2228	0.2270	0.2270
15	QPSK	36	0	21.82	22.10	22.01	0.1770	0.1888	0.1849
15	QPSK	36	20	21.80	22.10	21.95	0.1762	0.1888	0.1824
15	QPSK	36	39	21.77	22.09	21.95	0.1750	0.1884	0.1824



15	QPSK	75	0	21.91	22.07	22.11	0.1807	0.1875	0.1892
15	16QAM	1	0	22.09	22.21	22.36	0.1884	0.1936	0.2004
15	16QAM	1	37	22.18	22.35	22.54	0.1923	0.2000	0.2089
15	16QAM	1	74	22.35	22.48	22.55	0.2000	0.2061	0.2094
15	16QAM	36	0	20.83	21.10	21.14	0.1409	0.1500	0.1514
15	16QAM	36	20	20.94	21.07	21.16	0.1445	0.1489	0.1521
15	16QAM	36	39	20.98	21.16	21.25	0.1459	0.1521	0.1552
15	16QAM	75	0	20.83	21.14	21.19	0.1409	0.1514	0.1531
15	64QAM	1	0	20.92	21.13	21.26	0.1439	0.1510	0.1556
15	64QAM	1	37	20.96	21.25	21.28	0.1452	0.1552	0.1563
15	64QAM	1	74	21.21	21.22	21.43	0.1538	0.1542	0.1618
15	64QAM	36	0	19.80	20.02	20.20	0.1112	0.1169	0.1219
15	64QAM	36	20	19.87	20.15	20.16	0.1130	0.1205	0.1208
15	64QAM	36	39	19.96	20.17	20.16	0.1153	0.1211	0.1208
15	64QAM	75	0	19.87	20.03	20.25	0.1130	0.1172	0.1233
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	22.87	23.02	23.05	0.2254	0.2333	0.2350
10	QPSK	1	25	22.79	22.90	22.79	0.2213	0.2270	0.2213
10	QPSK	1	49	22.88	22.92	22.92	0.2259	0.2280	0.2280
10	QPSK	25	0	21.84	22.05	22.08	0.1778	0.1866	0.1879
10	QPSK	25	12	21.83	22.06	21.96	0.1774	0.1871	0.1828
10	QPSK	25	25	21.83	22.09	21.99	0.1774	0.1884	0.1841
10	QPSK	50	0	21.86	22.19	22.17	0.1786	0.1928	0.1919
10	16QAM	1	0	22.19	22.30	22.39	0.1928	0.1977	0.2018
10	16QAM	1	25	22.20	22.44	22.42	0.1932	0.2042	0.2032
10	16QAM	1	49	22.24	22.44	22.53	0.1950	0.2042	0.2084
10	16QAM	25	0	20.79	21.09	21.22	0.1396	0.1496	0.1542
10	16QAM	25	12	20.84	21.16	21.23	0.1413	0.1521	0.1545
10	16QAM	25	25	20.98	21.16	21.20	0.1459	0.1521	0.1535
10	16QAM	50	0	20.85	21.10	21.16	0.1416	0.1500	0.1521
10	64QAM	1	0	20.91	21.19	21.25	0.1435	0.1531	0.1552
10	64QAM	1	25	21.08	21.22	21.36	0.1493	0.1542	0.1592
10	64QAM	1	49	21.18	21.27	21.39	0.1528	0.1560	0.1603
10	64QAM	25	0	19.90	20.03	20.08	0.1138	0.1172	0.1186
10	64QAM	25	12	19.88	20.14	20.18	0.1132	0.1202	0.1213
10	64QAM	25	25	19.93	20.16	20.18	0.1146	0.1208	0.1213
10	64QAM	50	0	19.88	20.12	20.22	0.1132	0.1197	0.1225
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	22.85	23.07	23.01	0.2244	0.2360	0.2328
5	QPSK	1	12	22.84	22.88	22.81	0.2239	0.2259	0.2223
5	QPSK	1	24	22.88	22.82	22.87	0.2259	0.2228	0.2254
5	QPSK	12	0	21.85	22.09	22.11	0.1782	0.1884	0.1892
5	QPSK	12	7	21.87	22.00	21.96	0.1791	0.1845	0.1828



5	QPSK	12	13	21.86	22.16	21.87	0.1786	0.1914	0.1791
5	QPSK	25	0	21.94	22.19	22.08	0.1820	0.1928	0.1879
5	16QAM	1	0	22.18	22.31	22.36	0.1923	0.1982	0.2004
5	16QAM	1	12	22.19	22.36	22.54	0.1928	0.2004	0.2089
5	16QAM	1	24	22.23	22.40	22.58	0.1945	0.2023	0.2109
5	16QAM	12	0	20.88	21.06	21.17	0.1426	0.1486	0.1524
5	16QAM	12	7	20.81	21.11	21.18	0.1403	0.1503	0.1528
5	16QAM	12	13	20.93	21.08	21.25	0.1442	0.1493	0.1552
5	16QAM	25	0	20.80	21.07	21.27	0.1400	0.1489	0.1560
5	64QAM	1	0	20.92	21.16	21.24	0.1439	0.1521	0.1549
5	64QAM	1	12	21.07	21.32	21.30	0.1489	0.1578	0.1570
5	64QAM	1	24	21.21	21.28	21.51	0.1538	0.1563	0.1648
5	64QAM	12	0	19.82	20.00	20.10	0.1117	0.1164	0.1191
5	64QAM	12	7	19.89	20.05	20.22	0.1135	0.1178	0.1225
5	64QAM	12	13	19.84	20.17	20.18	0.1122	0.1211	0.1213
5	64QAM	25	0	19.88	20.15	20.20	0.1132	0.1205	0.1219

LTE Band38_ANT3:

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	23.75	23.80	23.77	0.2761	0.2793	0.2773
20	QPSK	1	49	23.71	23.76	23.69	0.2735	0.2767	0.2723
20	QPSK	1	99	23.74	23.75	23.66	0.2754	0.2761	0.2704
20	QPSK	50	0	22.83	22.85	22.83	0.2234	0.2244	0.2234
20	QPSK	50	24	22.72	22.71	22.70	0.2178	0.2173	0.2168
20	QPSK	50	50	22.74	22.77	22.78	0.2188	0.2203	0.2208
20	QPSK	100	0	22.81	22.84	22.82	0.2223	0.2239	0.2228
20	16QAM	1	0	22.91	22.88	22.88	0.2275	0.2259	0.2259
20	16QAM	1	49	22.99	22.99	22.93	0.2317	0.2317	0.2286
20	16QAM	1	99	23.01	22.95	23.07	0.2328	0.2296	0.2360
20	16QAM	50	0	21.82	21.83	21.82	0.1770	0.1774	0.1770
20	16QAM	50	24	21.89	21.85	21.86	0.1799	0.1782	0.1786
20	16QAM	50	50	21.91	21.88	21.94	0.1807	0.1795	0.1820
20	16QAM	100	0	21.89	21.86	21.89	0.1799	0.1786	0.1799
20	64QAM	1	0	21.75	21.77	21.74	0.1742	0.1750	0.1738
20	64QAM	1	49	21.81	21.77	21.81	0.1766	0.1750	0.1766
20	64QAM	1	99	21.87	21.82	21.97	0.1791	0.1770	0.1832
20	64QAM	50	0	20.83	20.80	20.81	0.1409	0.1400	0.1403
20	64QAM	50	24	20.86	20.81	20.87	0.1419	0.1403	0.1422
20	64QAM	50	50	20.91	20.85	20.94	0.1435	0.1416	0.1445
20	64QAM	100	0	20.86	20.85	20.87	0.1419	0.1416	0.1422
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H



15	QPSK	1	0	23.71	23.77	23.74	0.2735	0.2773	0.2754
15	QPSK	1	37	23.67	23.68	23.59	0.2710	0.2716	0.2661
15	QPSK	1	74	23.72	23.70	23.66	0.2742	0.2729	0.2704
15	QPSK	36	0	22.79	22.75	22.73	0.2213	0.2193	0.2183
15	QPSK	36	20	22.71	22.70	22.61	0.2173	0.2168	0.2123
15	QPSK	36	39	22.72	22.75	22.76	0.2178	0.2193	0.2198
15	QPSK	75	0	22.71	22.76	22.73	0.2173	0.2198	0.2183
15	16QAM	1	0	22.81	22.86	22.79	0.2223	0.2249	0.2213
15	16QAM	1	37	22.91	22.94	22.90	0.2275	0.2291	0.2270
15	16QAM	1	74	23.01	22.89	22.99	0.2328	0.2265	0.2317
15	16QAM	36	0	21.81	21.80	21.78	0.1766	0.1762	0.1754
15	16QAM	36	20	21.83	21.83	21.76	0.1774	0.1774	0.1746
15	16QAM	36	39	21.91	21.85	21.92	0.1807	0.1782	0.1811
15	16QAM	75	0	21.82	21.79	21.79	0.1770	0.1758	0.1758
15	64QAM	1	0	21.70	21.74	21.70	0.1722	0.1738	0.1722
15	64QAM	1	37	21.81	21.73	21.78	0.1766	0.1734	0.1754
15	64QAM	1	74	21.82	21.78	21.94	0.1770	0.1754	0.1820
15	64QAM	36	0	20.77	20.80	20.73	0.1390	0.1400	0.1377
15	64QAM	36	20	20.81	20.76	20.82	0.1403	0.1387	0.1406
15	64QAM	36	39	20.81	20.77	20.85	0.1403	0.1390	0.1416
15	64QAM	75	0	20.80	20.80	20.80	0.1400	0.1400	0.1400
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	23.70	23.74	23.73	0.2729	0.2754	0.2748
10	QPSK	1	25	23.67	23.73	23.69	0.2710	0.2748	0.2723
10	QPSK	1	49	23.67	23.70	23.61	0.2710	0.2729	0.2673
10	QPSK	25	0	22.74	22.76	22.77	0.2188	0.2198	0.2203
10	QPSK	25	12	22.65	22.65	22.68	0.2143	0.2143	0.2158
10	QPSK	25	25	22.72	22.76	22.71	0.2178	0.2198	0.2173
10	QPSK	50	0	22.78	22.84	22.74	0.2208	0.2239	0.2188
10	16QAM	1	0	22.86	22.81	22.85	0.2249	0.2223	0.2244
10	16QAM	1	25	22.99	22.97	22.89	0.2317	0.2307	0.2265
10	16QAM	1	49	22.95	22.88	23.01	0.2296	0.2259	0.2328
10	16QAM	25	0	21.76	21.79	21.76	0.1746	0.1758	0.1746
10	16QAM	25	12	21.87	21.82	21.83	0.1791	0.1770	0.1774
10	16QAM	25	25	21.87	21.83	21.91	0.1791	0.1774	0.1807
10	16QAM	50	0	21.87	21.76	21.87	0.1791	0.1746	0.1791
10	64QAM	1	0	21.67	21.74	21.71	0.1710	0.1738	0.1726
10	64QAM	1	25	21.75	21.74	21.76	0.1742	0.1738	0.1746
10	64QAM	1	49	21.81	21.74	21.93	0.1766	0.1738	0.1816
10	64QAM	25	0	20.81	20.76	20.77	0.1403	0.1387	0.1390
10	64QAM	25	12	20.81	20.74	20.79	0.1403	0.1380	0.1396
10	64QAM	25	25	20.81	20.83	20.91	0.1403	0.1409	0.1435
10	64QAM	50	0	20.76	20.78	20.78	0.1387	0.1393	0.1393
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H
5	QPSK	1	0	23.70	23.80	23.68	0.2729	0.2793	0.2716
5	QPSK	1	12	23.67	23.72	23.63	0.2710	0.2742	0.2685



5	QPSK	1	24	23.71	23.68	23.66	0.2735	0.2716	0.2704
5	QPSK	12	0	22.83	22.80	22.78	0.2234	0.2218	0.2208
5	QPSK	12	7	22.68	22.70	22.60	0.2158	0.2168	0.2118
5	QPSK	12	13	22.66	22.75	22.78	0.2148	0.2193	0.2208
5	QPSK	25	0	22.79	22.77	22.80	0.2213	0.2203	0.2218
5	16QAM	1	0	22.87	22.83	22.79	0.2254	0.2234	0.2213
5	16QAM	1	12	22.97	22.98	22.89	0.2307	0.2312	0.2265
5	16QAM	1	24	23.00	22.88	23.06	0.2323	0.2259	0.2355
5	16QAM	12	0	21.82	21.74	21.76	0.1770	0.1738	0.1746
5	16QAM	12	7	21.82	21.77	21.82	0.1770	0.1750	0.1770
5	16QAM	12	13	21.88	21.86	21.87	0.1795	0.1786	0.1791
5	16QAM	25	0	21.87	21.84	21.83	0.1791	0.1778	0.1774
5	64QAM	1	0	21.72	21.73	21.71	0.1730	0.1734	0.1726
5	64QAM	1	12	21.78	21.73	21.73	0.1754	0.1734	0.1734
5	64QAM	1	24	21.82	21.81	21.97	0.1770	0.1766	0.1832
5	64QAM	12	0	20.83	20.80	20.76	0.1409	0.1400	0.1387
5	64QAM	12	7	20.84	20.72	20.77	0.1413	0.1374	0.1390
5	64QAM	12	13	20.89	20.84	20.90	0.1429	0.1413	0.1432
5	64QAM	25	0	20.80	20.84	20.84	0.1400	0.1413	0.1413

LTE Band41_ANT3:

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	23.82	23.55	23.59	0.2805	0.2636	0.2661
20	QPSK	1	49	23.77	23.47	23.49	0.2773	0.2588	0.2600
20	QPSK	1	99	23.77	23.34	23.39	0.2773	0.2512	0.2541
20	QPSK	50	0	22.79	22.48	22.52	0.2213	0.2061	0.2080
20	QPSK	50	24	22.77	22.42	22.45	0.2203	0.2032	0.2046
20	QPSK	50	50	22.72	22.36	22.39	0.2178	0.2004	0.2018
20	QPSK	100	0	22.78	22.43	22.43	0.2208	0.2037	0.2037
20	16QAM	1	0	22.78	22.48	22.50	0.2208	0.2061	0.2070
20	16QAM	1	49	22.80	22.48	22.48	0.2218	0.2061	0.2061
20	16QAM	1	99	22.95	22.58	22.55	0.2296	0.2109	0.2094
20	16QAM	50	0	21.70	21.39	21.45	0.1722	0.1603	0.1626
20	16QAM	50	24	21.76	21.44	21.46	0.1746	0.1622	0.1629
20	16QAM	50	50	21.81	21.45	21.52	0.1766	0.1626	0.1652
20	16QAM	100	0	21.78	21.42	21.45	0.1754	0.1614	0.1626
20	64QAM	1	0	21.45	21.11	21.14	0.1626	0.1503	0.1514
20	64QAM	1	49	21.46	21.15	21.15	0.1629	0.1517	0.1517
20	64QAM	1	99	21.59	21.20	21.26	0.1679	0.1535	0.1556
20	64QAM	50	0	20.67	20.37	20.41	0.1358	0.1268	0.1279
20	64QAM	50	24	20.73	20.43	20.43	0.1377	0.1285	0.1285
20	64QAM	50	50	20.81	20.45	20.48	0.1403	0.1291	0.1300
20	64QAM	100	0	20.74	20.41	20.44	0.1380	0.1279	0.1288



Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	23.68	23.49	23.44	0.2716	0.2600	0.2570
15	QPSK	1	37	23.71	23.38	23.46	0.2735	0.2535	0.2582
15	QPSK	1	74	23.69	23.23	23.33	0.2723	0.2449	0.2506
15	QPSK	36	0	22.74	22.39	22.44	0.2188	0.2018	0.2042
15	QPSK	36	20	22.66	22.33	22.31	0.2148	0.1991	0.1982
15	QPSK	36	39	22.67	22.21	22.30	0.2153	0.1936	0.1977
15	QPSK	75	0	22.68	22.38	22.35	0.2158	0.2014	0.2000
15	16QAM	1	0	22.73	22.40	22.47	0.2183	0.2023	0.2056
15	16QAM	1	37	22.75	22.41	22.34	0.2193	0.2028	0.1995
15	16QAM	1	74	22.88	22.52	22.43	0.2259	0.2080	0.2037
15	16QAM	36	0	21.55	21.30	21.32	0.1663	0.1570	0.1578
15	16QAM	36	20	21.67	21.29	21.42	0.1710	0.1567	0.1614
15	16QAM	36	39	21.73	21.40	21.41	0.1734	0.1607	0.1611
15	16QAM	75	0	21.65	21.37	21.33	0.1702	0.1596	0.1581
15	64QAM	1	0	21.36	21.05	21.10	0.1592	0.1483	0.1500
15	64QAM	1	37	21.32	21.02	21.09	0.1578	0.1472	0.1496
15	64QAM	1	74	21.50	21.07	21.22	0.1644	0.1489	0.1542
15	64QAM	36	0	20.60	20.22	20.38	0.1337	0.1225	0.1271
15	64QAM	36	20	20.58	20.38	20.34	0.1330	0.1271	0.1259
15	64QAM	36	39	20.74	20.30	20.37	0.1380	0.1247	0.1268
15	64QAM	75	0	20.61	20.32	20.34	0.1340	0.1253	0.1259
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H
10	QPSK	1	0	23.68	23.42	23.58	0.2716	0.2559	0.2655
10	QPSK	1	25	23.66	23.39	23.46	0.2704	0.2541	0.2582
10	QPSK	1	49	23.64	23.20	23.32	0.2692	0.2432	0.2500
10	QPSK	25	0	22.64	22.42	22.51	0.2138	0.2032	0.2075
10	QPSK	25	12	22.69	22.34	22.44	0.2163	0.1995	0.2042
10	QPSK	25	25	22.66	22.29	22.33	0.2148	0.1972	0.1991
10	QPSK	50	0	22.68	22.30	22.35	0.2158	0.1977	0.2000
10	16QAM	1	0	22.71	22.34	22.42	0.2173	0.1995	0.2032
10	16QAM	1	25	22.75	22.40	22.35	0.2193	0.2023	0.2000
10	16QAM	1	49	22.80	22.45	22.40	0.2218	0.2046	0.2023
10	16QAM	25	0	21.63	21.28	21.30	0.1694	0.1563	0.1570
10	16QAM	25	12	21.61	21.29	21.31	0.1687	0.1567	0.1574
10	16QAM	25	25	21.70	21.34	21.39	0.1722	0.1585	0.1603
10	16QAM	50	0	21.71	21.31	21.45	0.1726	0.1574	0.1626
10	64QAM	1	0	21.37	21.03	21.11	0.1596	0.1476	0.1503
10	64QAM	1	25	21.34	21.06	21.04	0.1585	0.1486	0.1479
10	64QAM	1	49	21.47	21.08	21.14	0.1633	0.1493	0.1514
10	64QAM	25	0	20.58	20.30	20.32	0.1330	0.1247	0.1253
10	64QAM	25	12	20.65	20.35	20.41	0.1352	0.1262	0.1279
10	64QAM	25	25	20.76	20.33	20.41	0.1387	0.1256	0.1279
10	64QAM	50	0	20.68	20.26	20.39	0.1361	0.1236	0.1274
Channel				39675	40620	41565	EIRP(W)		



Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	23.73	23.44	23.59	0.2748	0.2570	0.2661
5	QPSK	1	12	23.66	23.40	23.39	0.2704	0.2547	0.2541
5	QPSK	1	24	23.65	23.26	23.31	0.2698	0.2466	0.2495
5	QPSK	12	0	22.67	22.34	22.52	0.2153	0.1995	0.2080
5	QPSK	12	7	22.64	22.27	22.43	0.2138	0.1963	0.2037
5	QPSK	12	13	22.63	22.31	22.25	0.2133	0.1982	0.1954
5	QPSK	25	0	22.70	22.31	22.28	0.2168	0.1982	0.1968
5	16QAM	1	0	22.64	22.40	22.45	0.2138	0.2023	0.2046
5	16QAM	1	12	22.65	22.43	22.39	0.2143	0.2037	0.2018
5	16QAM	1	24	22.80	22.43	22.53	0.2218	0.2037	0.2084
5	16QAM	12	0	21.65	21.28	21.41	0.1702	0.1563	0.1611
5	16QAM	12	7	21.68	21.30	21.39	0.1714	0.1570	0.1603
5	16QAM	12	13	21.73	21.38	21.49	0.1734	0.1600	0.1641
5	16QAM	25	0	21.69	21.27	21.32	0.1718	0.1560	0.1578
5	64QAM	1	0	21.36	21.04	21.12	0.1592	0.1479	0.1507
5	64QAM	1	12	21.31	21.03	21.11	0.1574	0.1476	0.1503
5	64QAM	1	24	21.52	21.10	21.11	0.1652	0.1500	0.1503
5	64QAM	12	0	20.56	20.25	20.36	0.1324	0.1233	0.1265
5	64QAM	12	7	20.65	20.31	20.43	0.1352	0.1250	0.1285
5	64QAM	12	13	20.66	20.37	20.38	0.1355	0.1268	0.1271
5	64QAM	25	0	20.66	20.33	20.35	0.1355	0.1256	0.1262

LTE CA_7C_ANT3:

Combination 20MHz+20MHz (100RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	20850_21048	QPSK	1	Max	1	0	23.00	0.2323
M	21001_21199	QPSK	1	Max	1	0	23.02	0.2333
H	21152_21350	QPSK	1	Max	1	0	22.97	0.2307
L	20850_21048	16QAM	1	Max	1	0	21.98	0.1837
M	21001_21199	16QAM	1	Max	1	0	22.01	0.1849
H	21152_21350	16QAM	1	Max	1	0	21.95	0.1824
L	20850_21048	64QAM	1	Max	1	0	20.21	0.1222
M	21001_21199	64QAM	1	Max	1	0	20.15	0.1205
H	21152_21350	64QAM	1	Max	1	0	20.13	0.1199
Combination 20MHz+15MHz (100RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21026_21197	QPSK	1	Max	1	0	22.89	0.2265
M	21026_21197	16QAM	1	Max	1	0	21.80	0.1762



Combination 15MHz+20MHz (75RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21003_21174	QPSK	1	Max	1	0	22.87	0.2254
M	21003_21174	16QAM	1	Max	1	0	21.77	0.1750
Combination 15MHz+15MHz (75RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21025_21175	QPSK	1	Max	1	0	22.77	0.2203
M	21025_21175	16QAM	1	Max	1	0	21.74	0.1738
Combination 20MHz+10MHz (100RB+50RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21051_21195	QPSK	1	Max	1	0	22.76	0.2198
M	21051_21195	16QAM	1	Max	1	0	21.65	0.1702
Combination 10MHz+20MHz (50RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21006_21150	QPSK	1	Max	1	0	22.81	0.2223
M	21006_21150	16QAM	1	Max	1	0	21.75	0.1742
Combination 15MHz+10MHz (75RB+50RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	21051_21171	QPSK	1	Max	1	0	22.89	0.2265
M	21051_21171	16QAM	1	Max	1	0	21.63	0.1694

LTE CA_7B_ANT3:

Combination 15MHz+5MHz (100RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	20825_20918	QPSK	1	Max	1	0	22.88	0.2259
M	21076_21169	QPSK	1	Max	1	0	22.96	0.2301
H	21327_21420	QPSK	1	Max	1	0	22.93	0.2286
L	20825_20918	16QAM	1	Max	1	0	21.86	0.1786
M	21076_21169	16QAM	1	Max	1	0	21.90	0.1803
H	21327_21420	16QAM	1	Max	1	0	21.80	0.1762
L	20825_20918	64QAM	1	Max	1	0	20.06	0.1180
M	21076_21169	64QAM	1	Max	1	0	20.05	0.1178
H	21327_21420	64QAM	1	Max	1	0	20.03	0.1172



LTE CA_38C_ANT3:

Combination 20MHz+20MHz (100RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	37850_38048	QPSK	1	Max	1	0	23.45	0.2576
M	37901_38099	QPSK	1	Max	1	0	23.54	0.2630
H	37952_38150	QPSK	1	Max	1	0	23.48	0.2594
L	37850_38048	16QAM	1	Max	1	0	22.23	0.1945
M	37901_38099	16QAM	1	Max	1	0	22.20	0.1932
H	37952_38150	16QAM	1	Max	1	0	22.25	0.1954
L	37850_38048	64QAM	1	Max	1	0	22.11	0.1892
M	37901_38099	64QAM	1	Max	1	0	22.18	0.1923
H	37952_38150	64QAM	1	Max	1	0	22.20	0.1932
Combination 15MHz+15MHz (75RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	37925_38075	QPSK	1	Max	1	0	23.38	0.2535
M	37925_38075	16QAM	1	Max	1	0	22.11	0.1892

LTE CA_41C_ANT3:

Combination 20MHz+20MHz (100RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
L	39750_39948	QPSK	1	Max	1	0	23.55	0.2636
M	40521_40719	QPSK	1	Max	1	0	23.26	0.2466
H	41292_41490	QPSK	1	Max	1	0	23.32	0.2500
L	39750_39948	16QAM	1	Max	1	0	22.42	0.2032
M	40521_40719	16QAM	1	Max	1	0	22.30	0.1977
H	41292_41490	16QAM	1	Max	1	0	22.25	0.1954
L	39750_39948	64QAM	1	Max	1	0	20.15	0.1205
M	40521_40719	64QAM	1	Max	1	0	20.11	0.1194
H	41292_41490	64QAM	1	Max	1	0	20.09	0.1189
Combination 20MHz+15MHz (100RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40546_40717	QPSK	1	Max	1	0	23.40	0.2547
M	40546_40717	16QAM	1	Max	1	0	22.31	0.1982
Combination 15MHz+20MHz (75RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40523_40694	QPSK	1	Max	1	0	23.36	0.2523
M	40523_40694	16QAM	1	Max	1	0	22.15	0.1910
Combination 15MHz+15MHz (75RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40545_40695	QPSK	1	Max	1	0	23.33	0.2506
M	40545_40695	16QAM	1	Max	1	0	22.23	0.1945



Combination 20MHz+10MHz (100RB+50RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40571_40715	QPSK	1	Max	1	0	23.22	0.2443
M	40571_40715	16QAM	1	Max	1	0	22.32	0.1986
Combination 10MHz+20MHz (50RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40526_40670	QPSK	1	Max	1	0	23.25	0.2460
M	40526_40670	16QAM	1	Max	1	0	22.15	0.1910
Combination 15MHz+10MHz (75RB+50RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40571_40691	QPSK	1	Max	1	0	23.37	0.2529
M	40571_40691	16QAM	1	Max	1	0	22.25	0.1954
Combination 10MHz+15MHz (50RB+75RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40549_40669	QPSK	1	Max	1	0	23.25	0.2460
M	40549_40669	16QAM	1	Max	1	0	22.22	0.1941
Combination 20MHz+5MHz (100RB+25RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40595_40712	QPSK	1	Max	1	0	23.25	0.2460
M	40595_40712	16QAM	1	Max	1	0	22.33	0.1991
Combination 5MHz+20MHz (25RB+100RB)								
Channel		Modulation	PCC		SCC		Measured Power	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
M	40528_40645	QPSK	1	Max	1	0	23.30	0.2489
M	40528_40645	16QAM	1	Max	1	0	22.35	0.2000



LTE Band 7

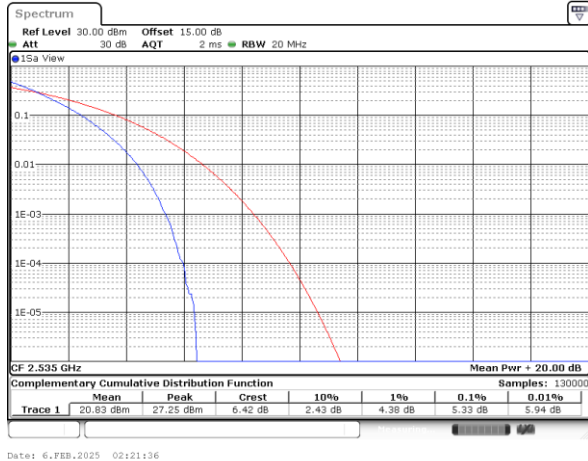
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.33	6.26	6.58	PASS



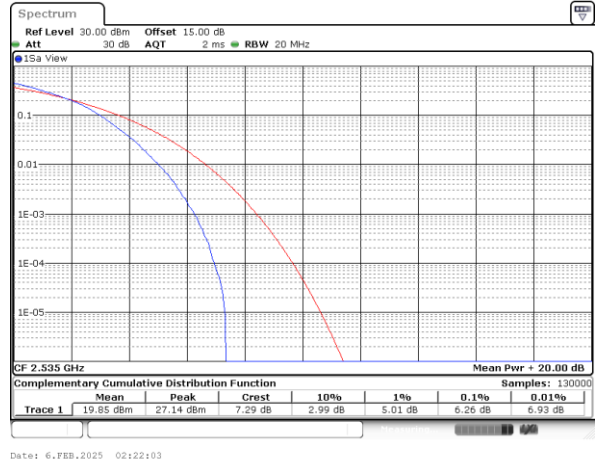
LTE Band 7 / 20MHz / QPSK

Middle Channel / Full RB



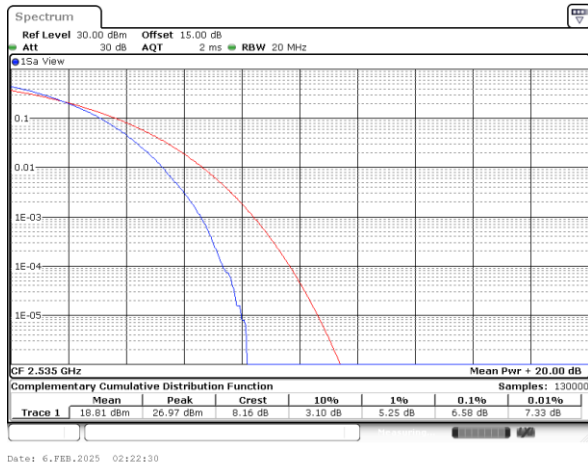
LTE Band 7 / 20MHz / 16QAM

Middle Channel / Full RB



LTE Band 7 / 20MHz / 64QAM

Middle Channel / Full RB





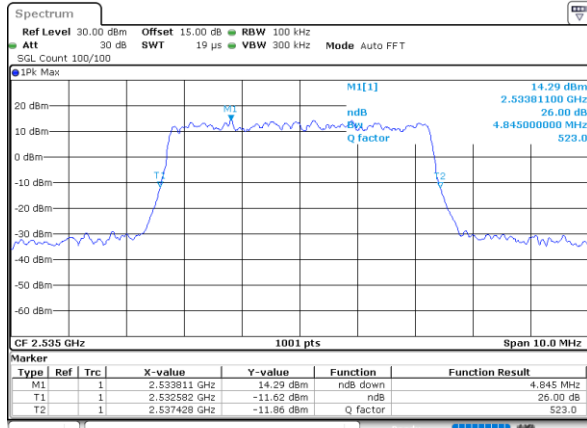
26dB Bandwidth

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	-	-	-	-	4.85	4.78	9.77	9.77	14.39	14.54	18.82	18.94



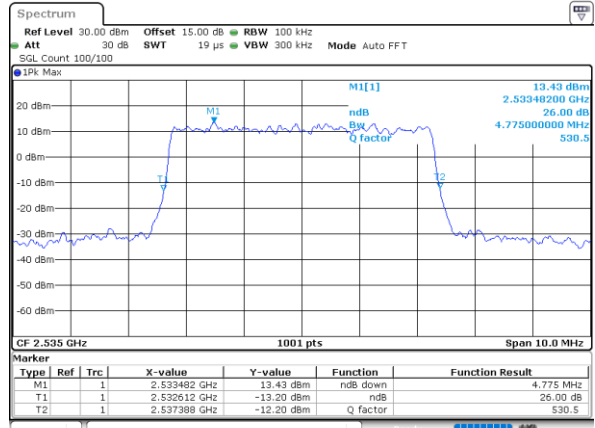
LTE Band 7

Middle Channel / 5MHz / QPSK



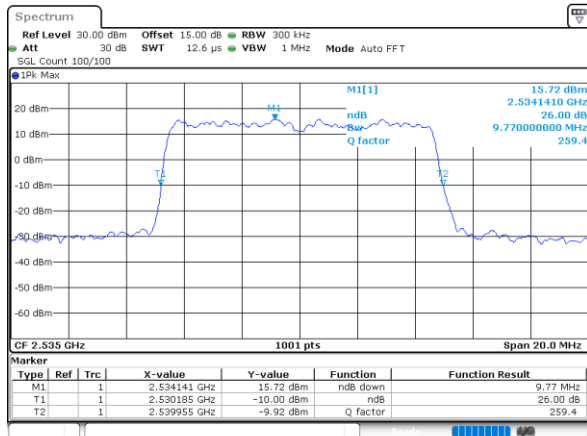
Date: 12.FEB.2025 13:20:15

Middle Channel / 5MHz / 16QAM



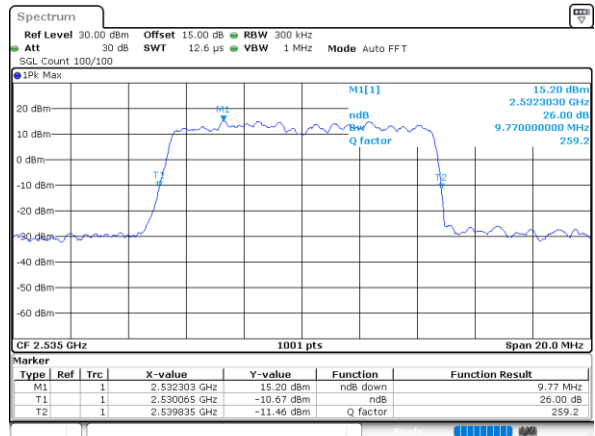
Date: 12.FEB.2025 13:20:55

Middle Channel / 10MHz / QPSK



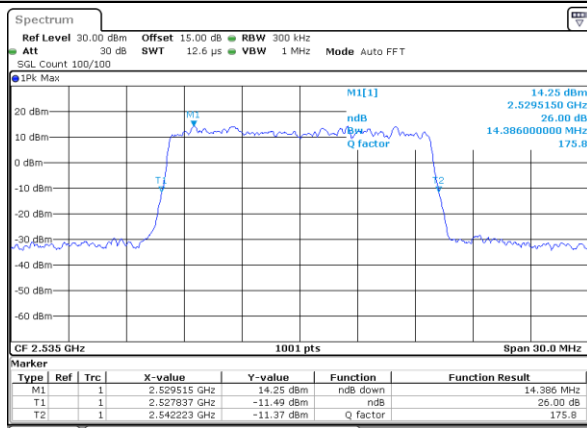
Date: 6.FEB.2025 01:42:42

Middle Channel / 10MHz / 16QAM



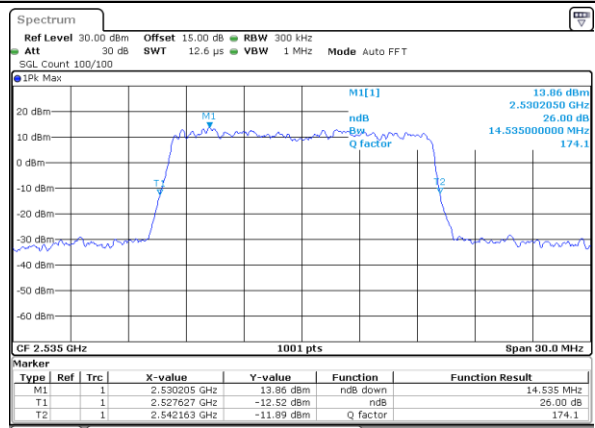
Date: 6.FEB.2025 01:43:21

Middle Channel / 15MHz / QPSK



Date: 6.FEB.2025 02:01:36

Middle Channel / 15MHz / 16QAM

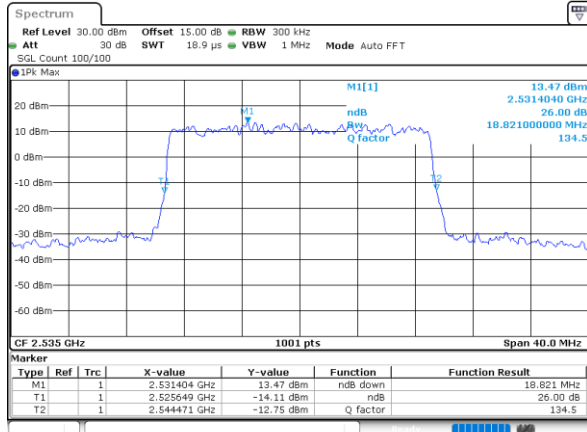


Date: 6.FEB.2025 02:02:16



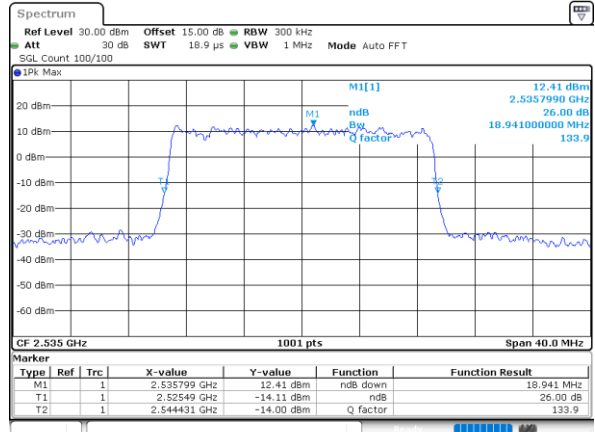
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 6.FEB.2025 02:20:30

Middle Channel / 20MHz / 16QAM



Date: 6.FEB.2025 02:21:10



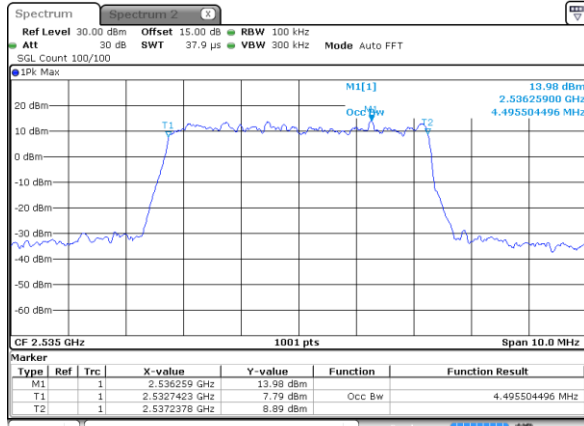
Occupied Bandwidth

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	-	-	-	-	4.50	4.51	9.03	9.05	13.43	13.46	17.90	17.82



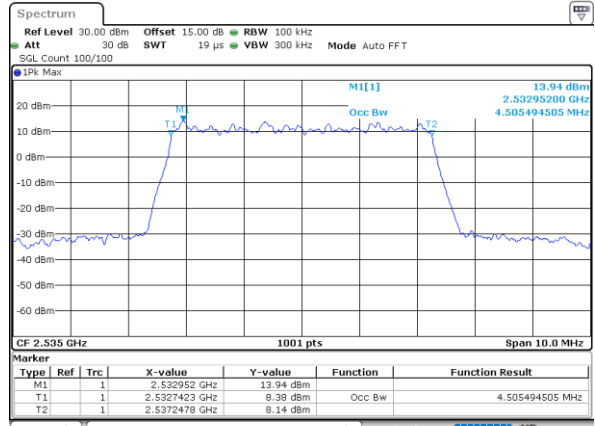
LTE Band 7

Middle Channel / 5MHz / QPSK



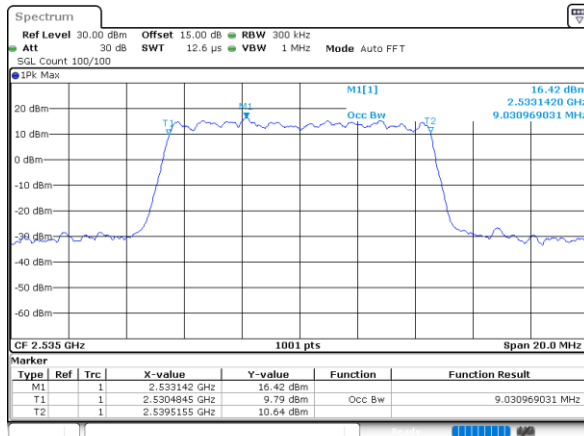
Date: 17.FEB.2025 16:18:22

Middle Channel / 5MHz / 16QAM



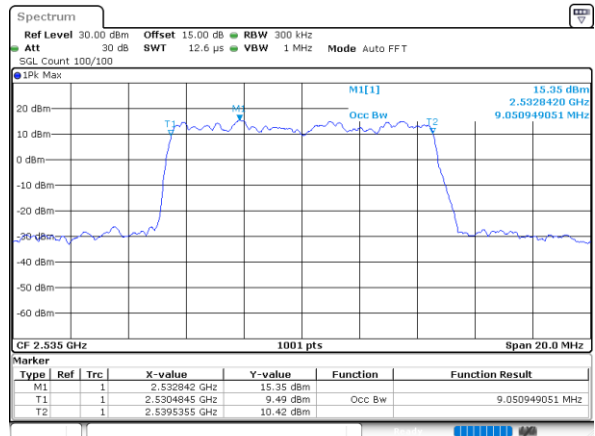
Date: 12.FEB.2025 13:20:41

Middle Channel / 10MHz / QPSK



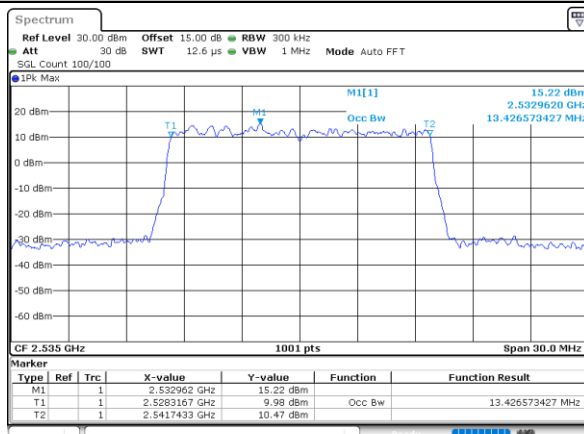
Date: 6.FEB.2025 01:42:28

Middle Channel / 10MHz / 16QAM



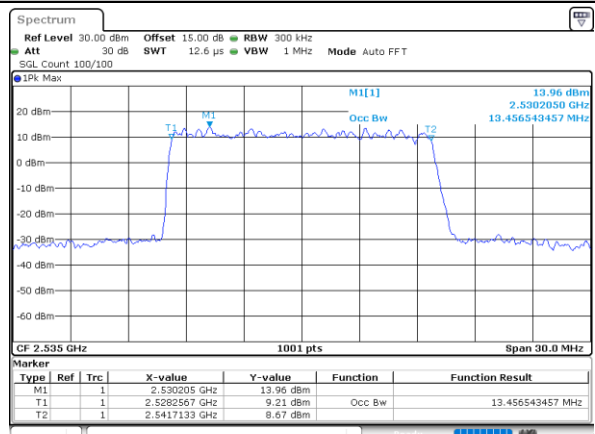
Date: 6.FEB.2025 01:43:07

Middle Channel / 15MHz / QPSK



Date: 6.FEB.2025 02:01:22

Middle Channel / 15MHz / 16QAM

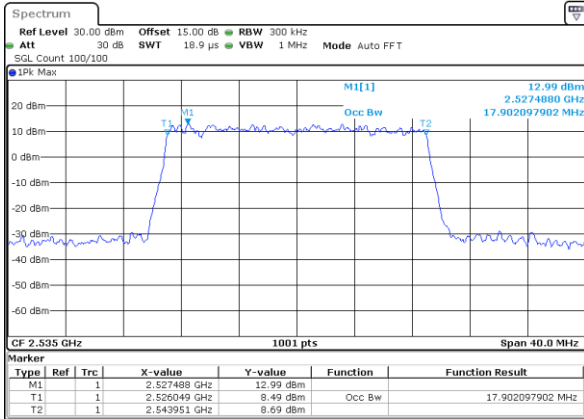


Date: 6.FEB.2025 02:02:02



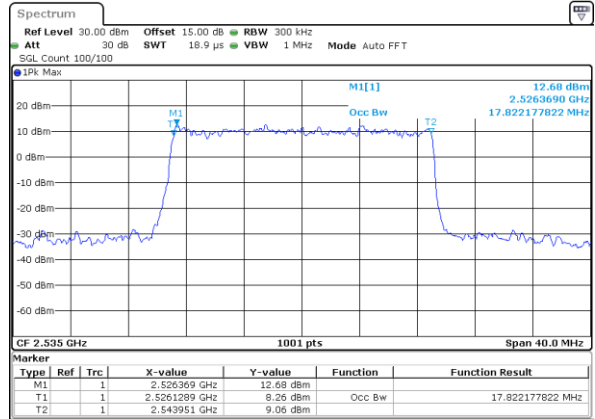
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 6.FEB.2025 02:20:16

Middle Channel / 20MHz / 16QAM



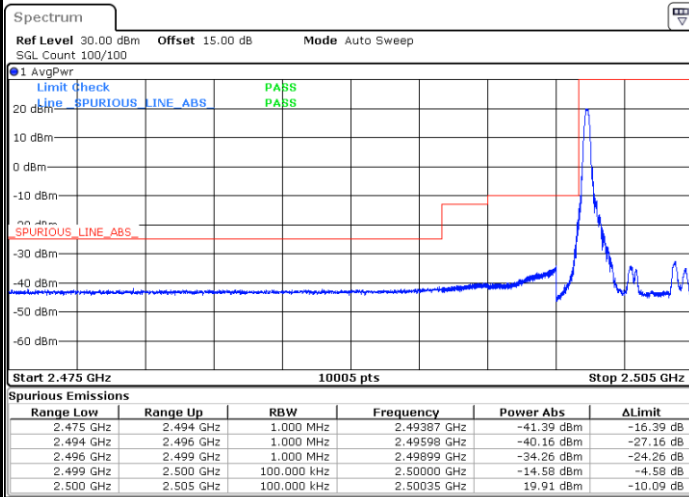
Date: 6.FEB.2025 02:20:56



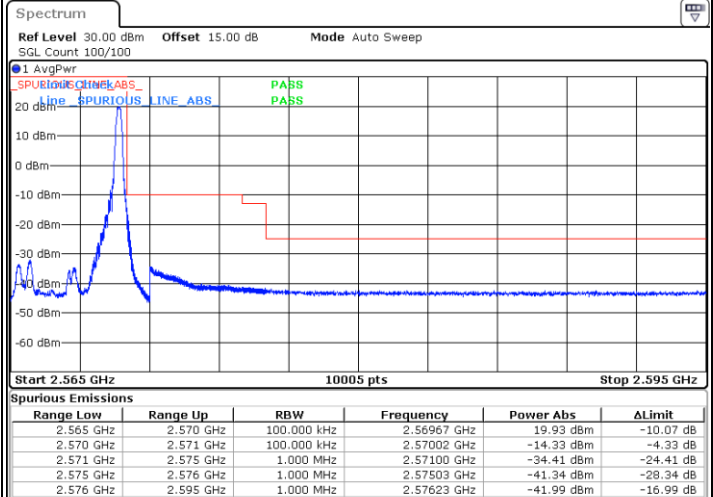
Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

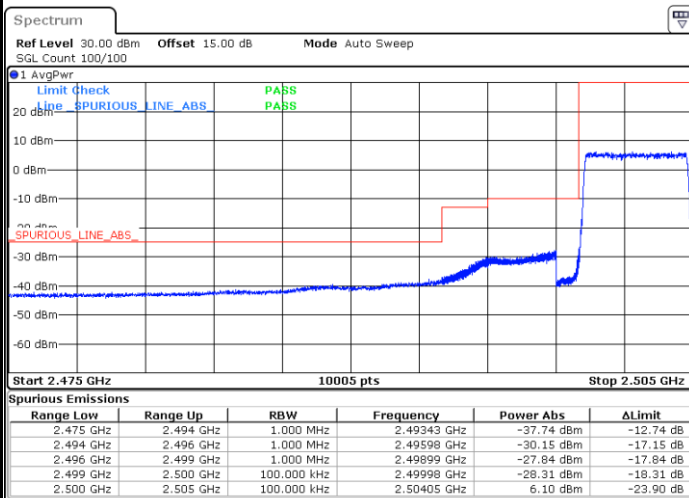
Lowest Band Edge / 1 RB



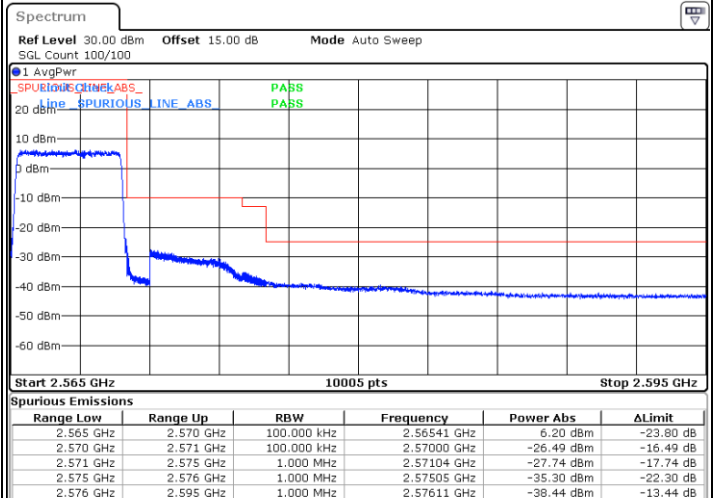
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



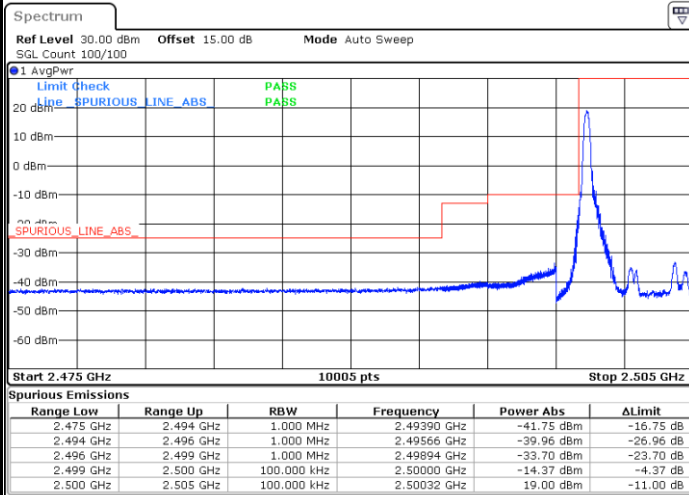
Highest Band Edge / Full RB





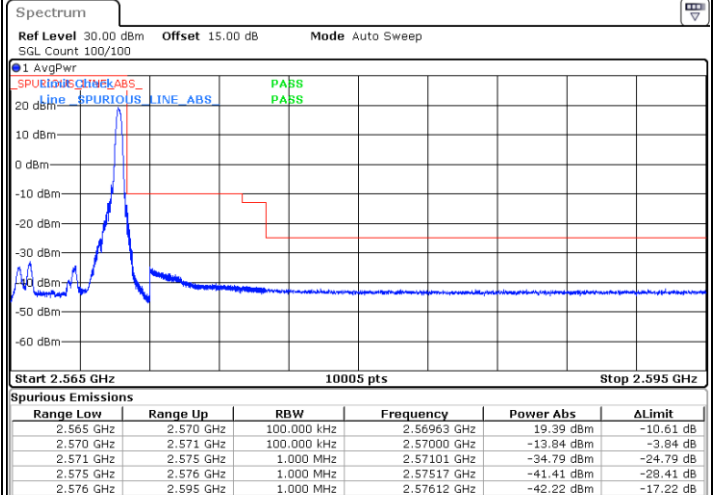
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



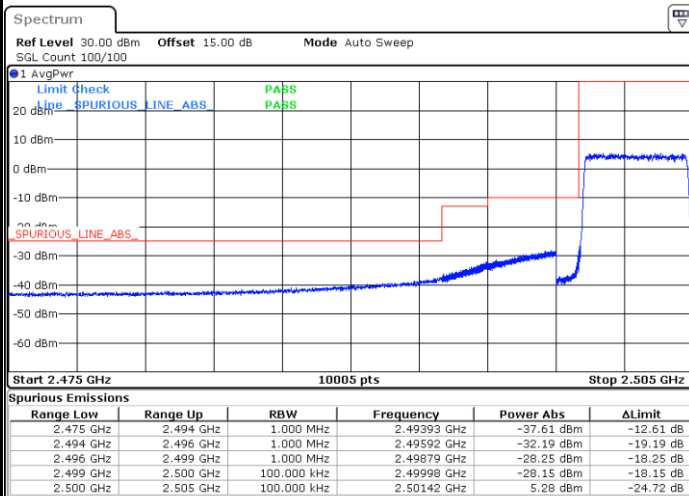
Date: 12.FEB.2025 13:14:24

Highest Band Edge / 1 RB



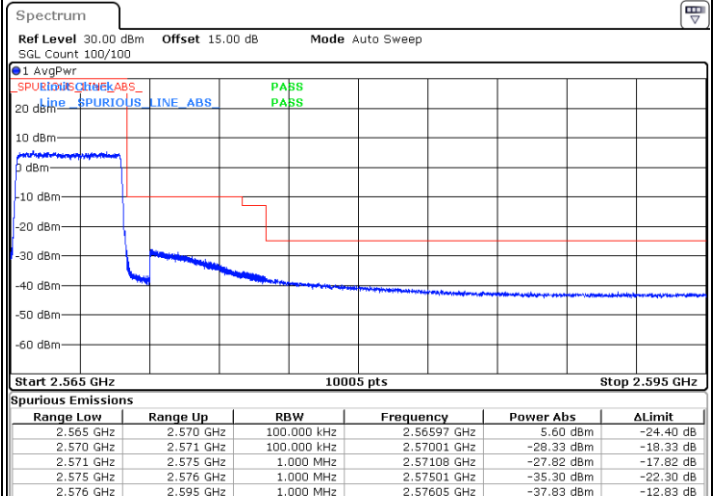
Date: 12.FEB.2025 13:22:06

Lowest Band Edge / Full RB



Date: 12.FEB.2025 13:16:17

Highest Band Edge / Full RB

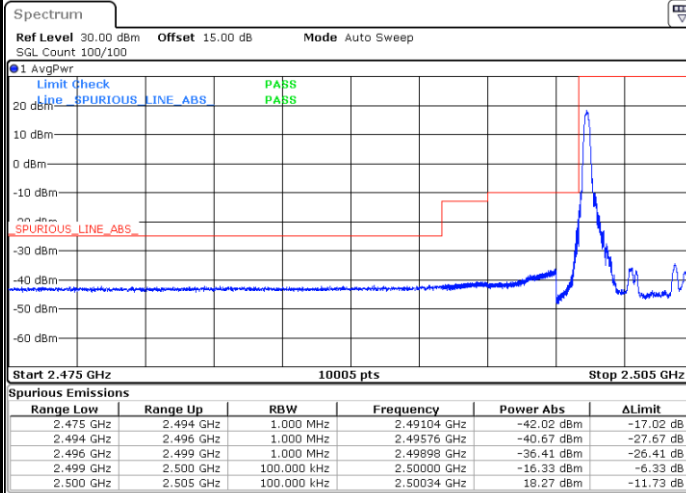


Date: 12.FEB.2025 13:23:55



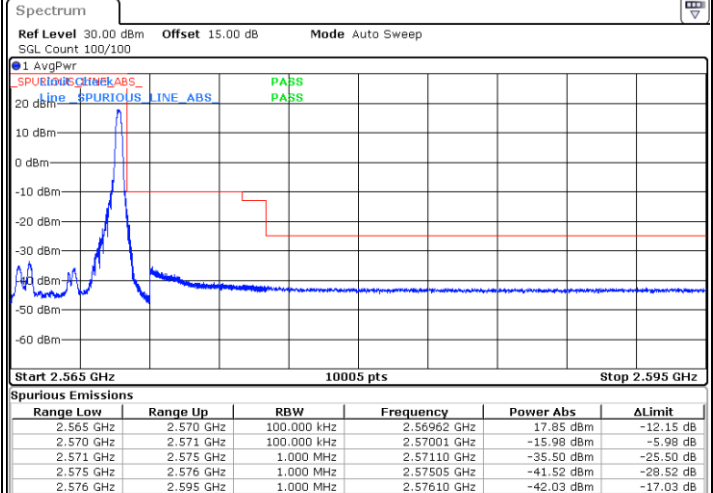
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



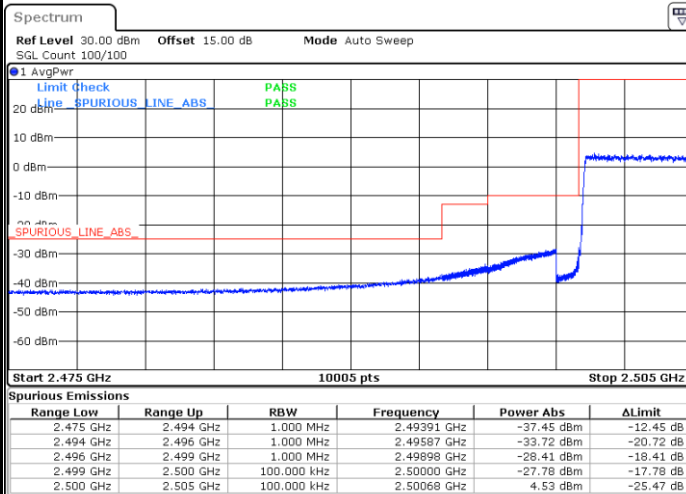
Date: 12.FEB.2025 13:15:01

Highest Band Edge / 1 RB



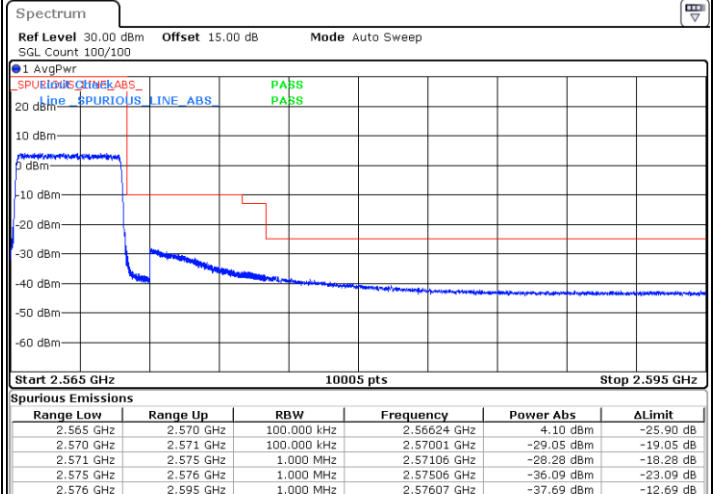
Date: 12.FEB.2025 13:22:43

Lowest Band Edge / Full RB



Date: 12.FEB.2025 13:16:54

Highest Band Edge / Full RB

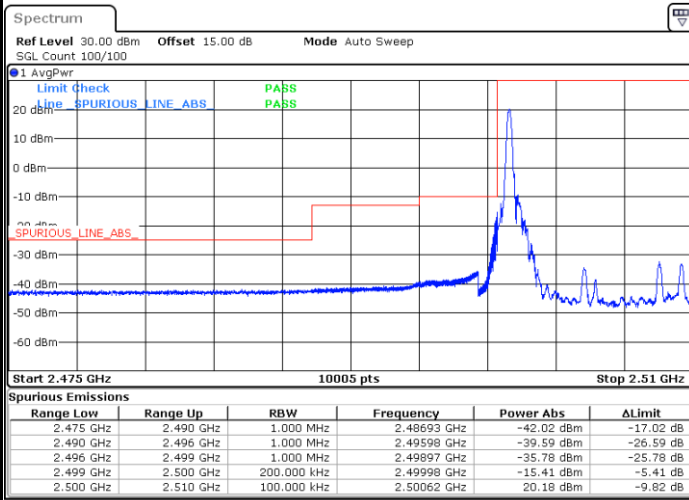


Date: 12.FEB.2025 13:24:32

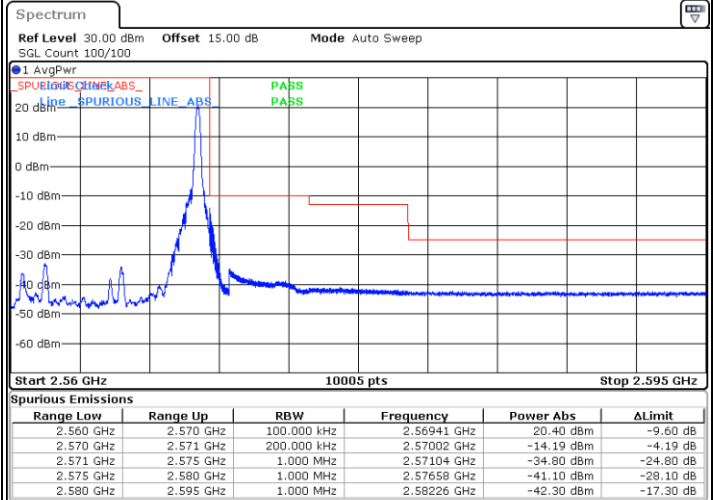


LTE Band 7 / 10MHz / QPSK

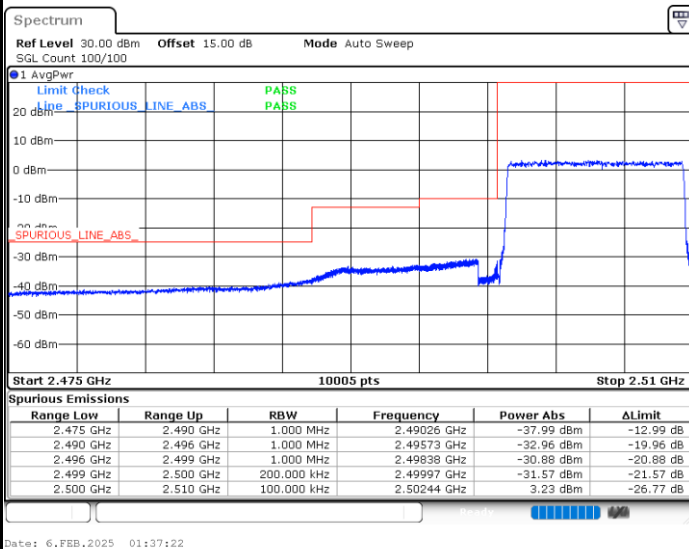
Lowest Band Edge / 1 RB



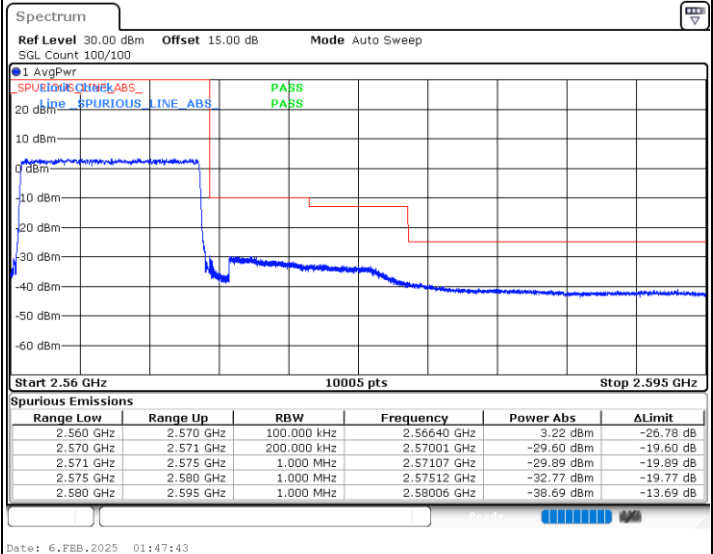
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



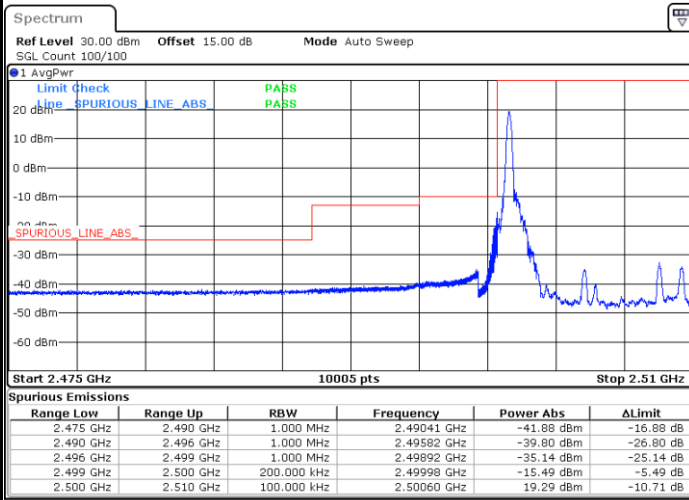
Highest Band Edge / Full RB





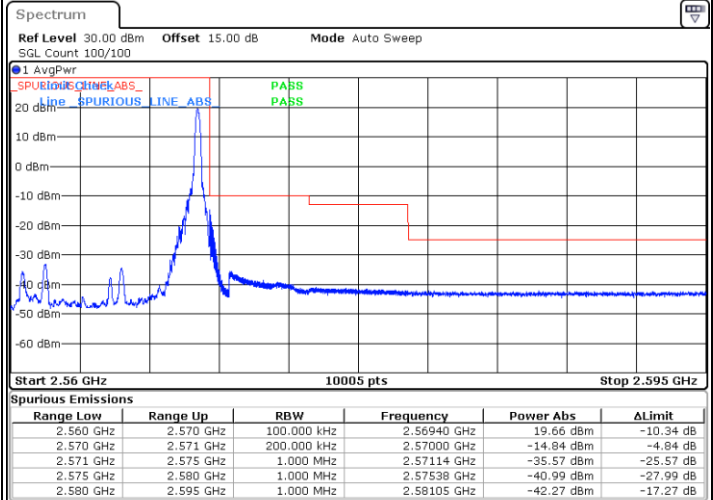
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



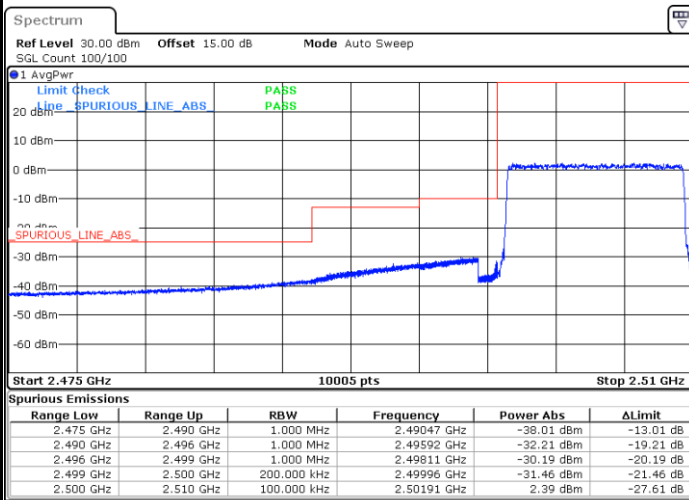
Date: 6.FEB.2025 01:35:11

Highest Band Edge / 1 RB



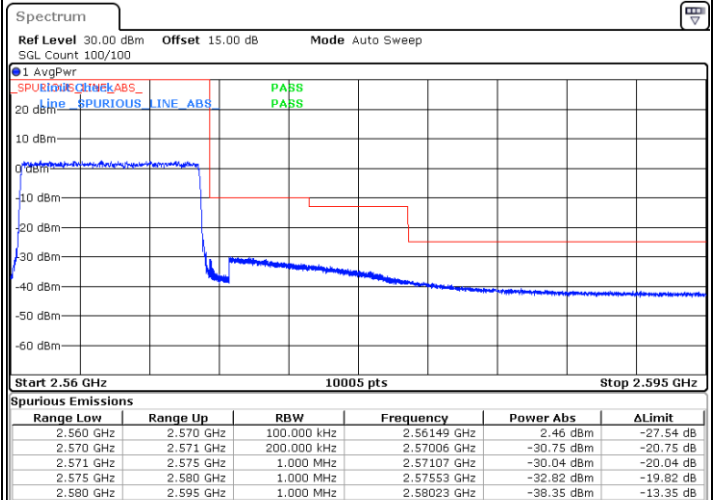
Date: 6.FEB.2025 01:45:32

Lowest Band Edge / Full RB



Date: 6.FEB.2025 01:38:28

Highest Band Edge / Full RB

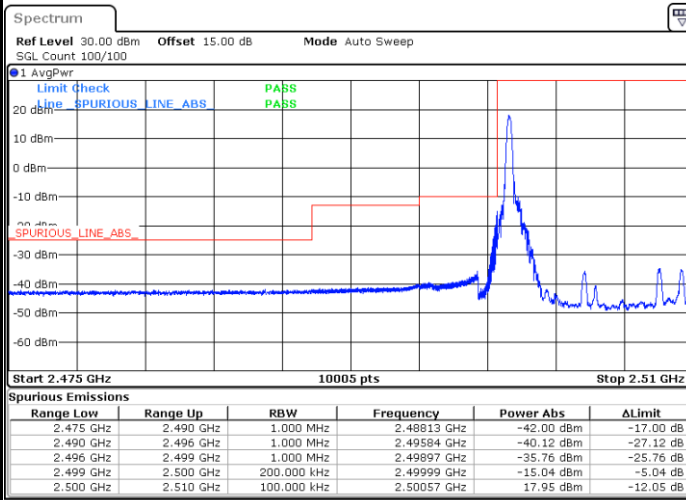


Date: 6.FEB.2025 01:48:49

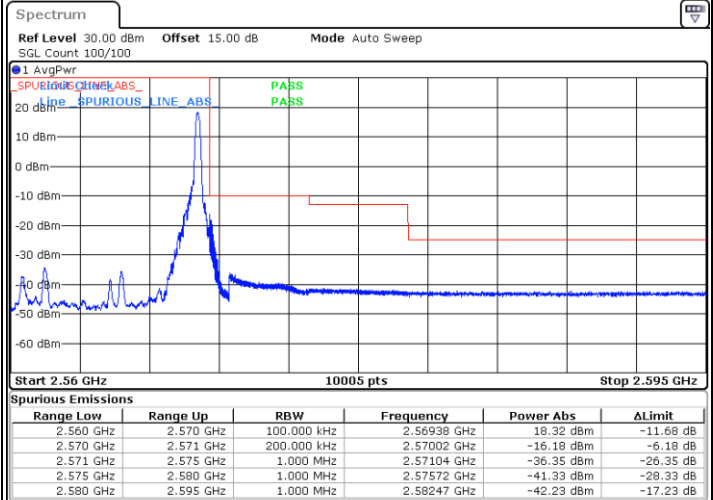


LTE Band 7 / 10MHz / 64QAM

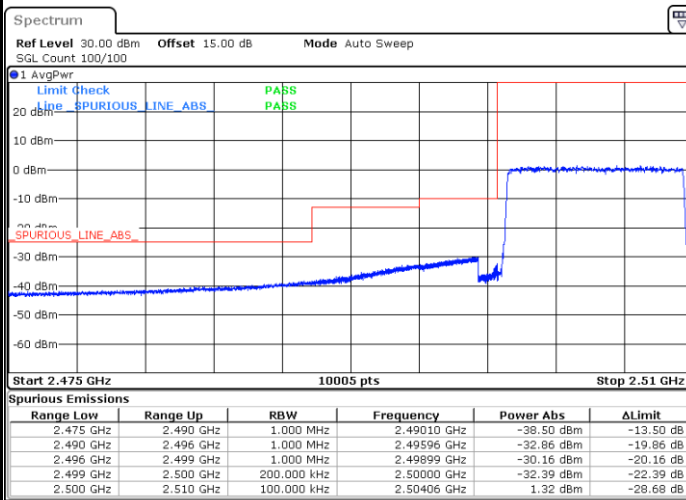
Lowest Band Edge / 1RB



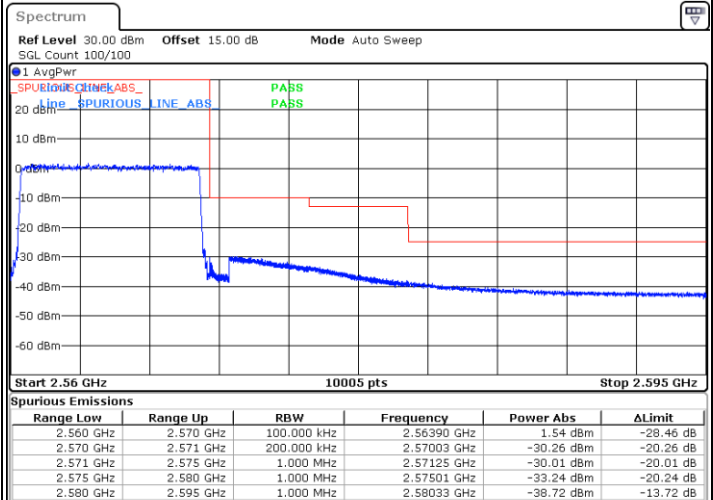
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



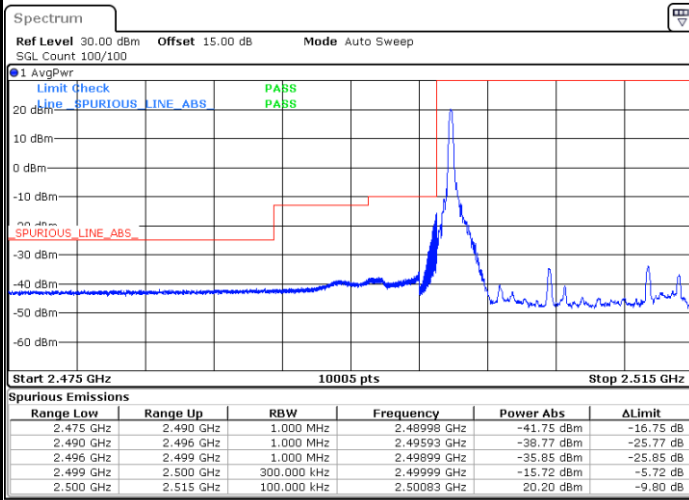
Highest Band Edge / Full RB



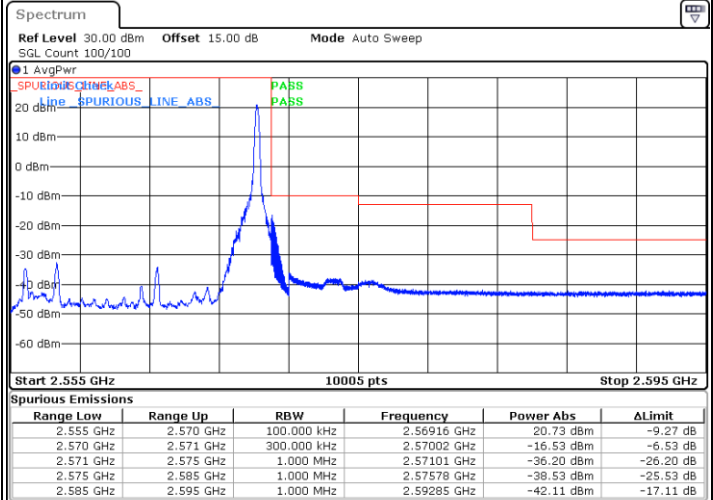


LTE Band 7 / 15MHz / QPSK

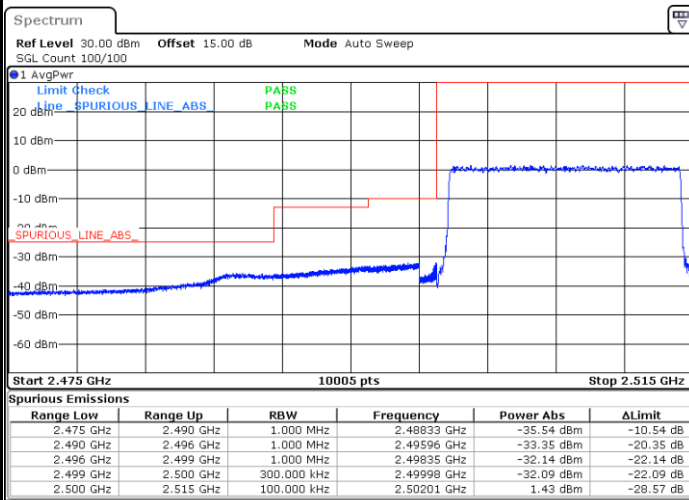
Lowest Band Edge / 1 RB



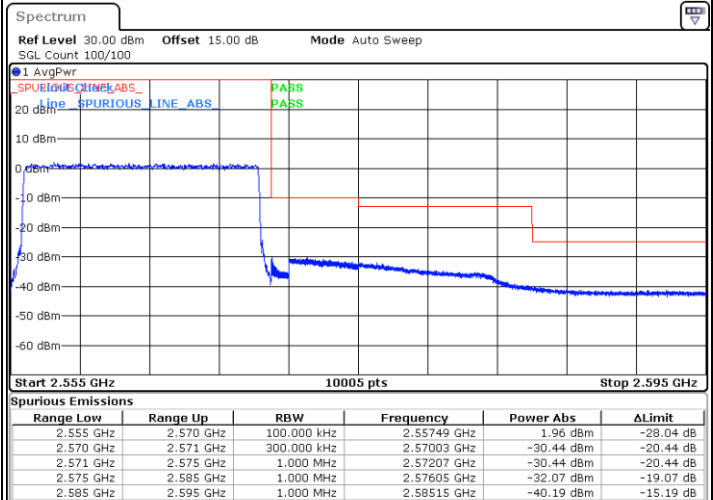
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



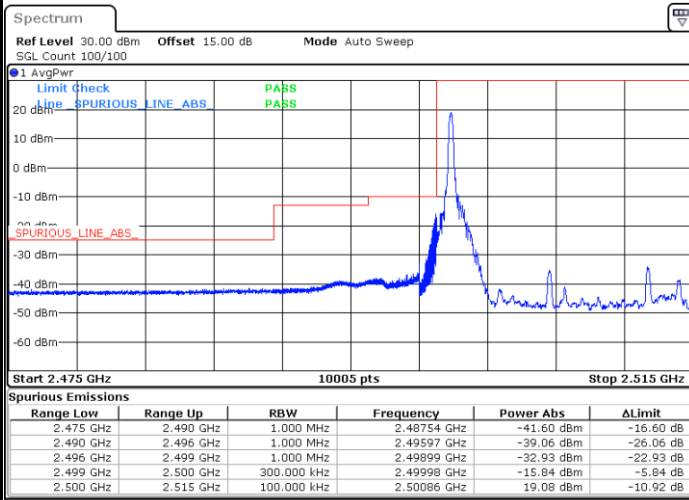
Highest Band Edge / Full RB



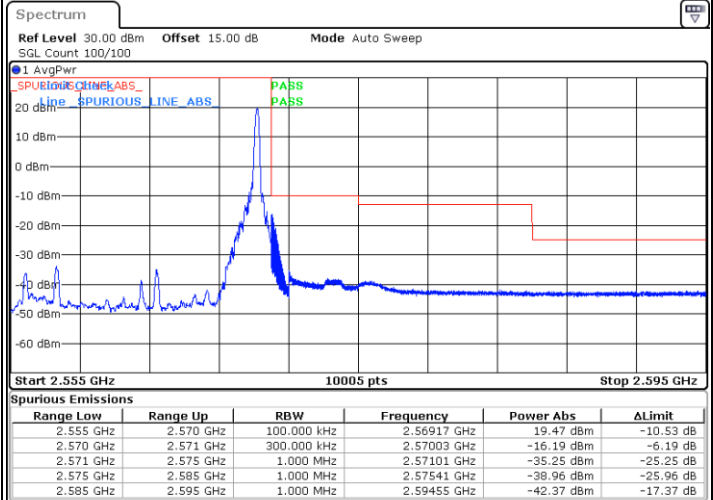


LTE Band 7 / 15MHz / 16QAM

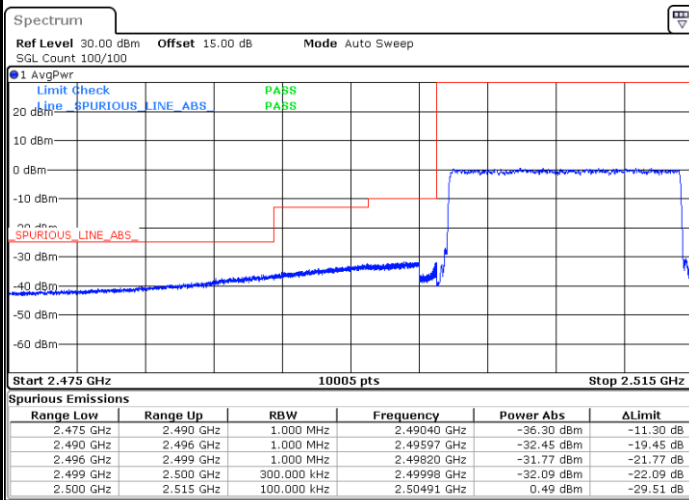
Lowest Band Edge / 1RB



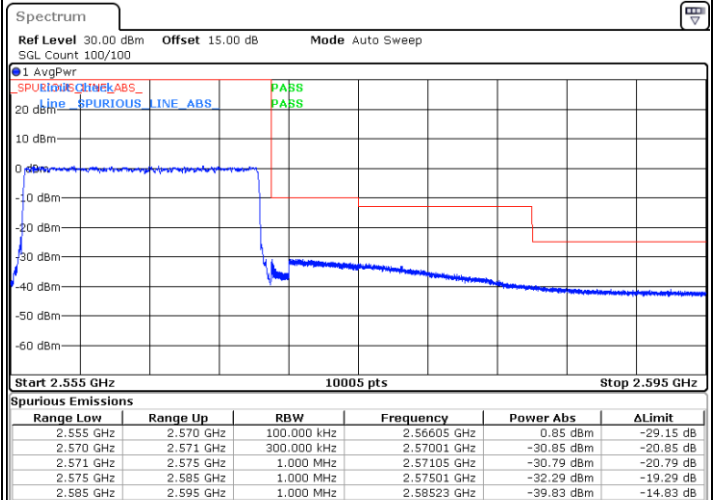
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



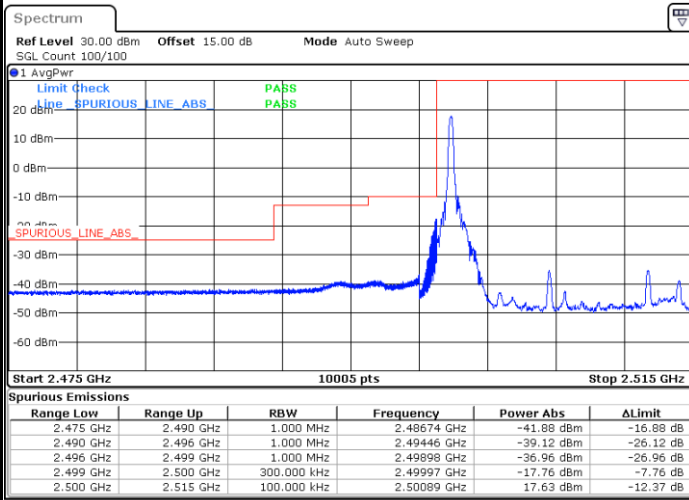
Highest Band Edge / Full RB



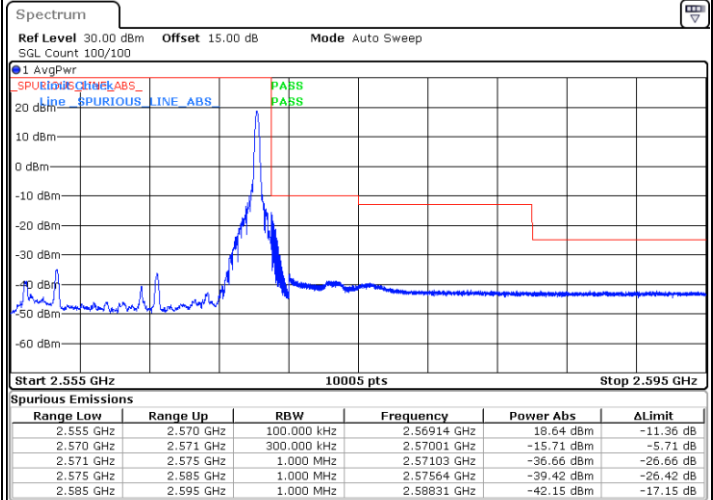


LTE Band 7 / 15MHz / 64QAM

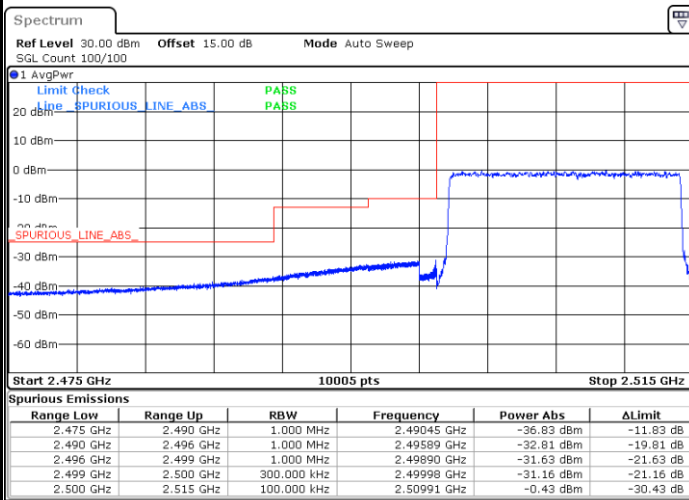
Lowest Band Edge / 1RB



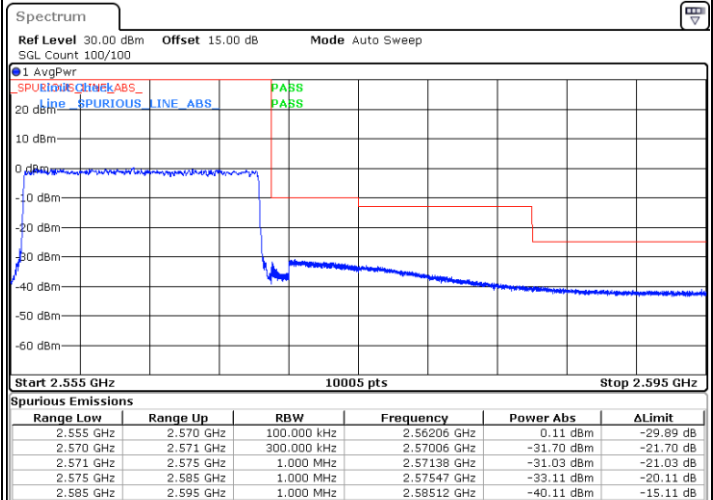
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



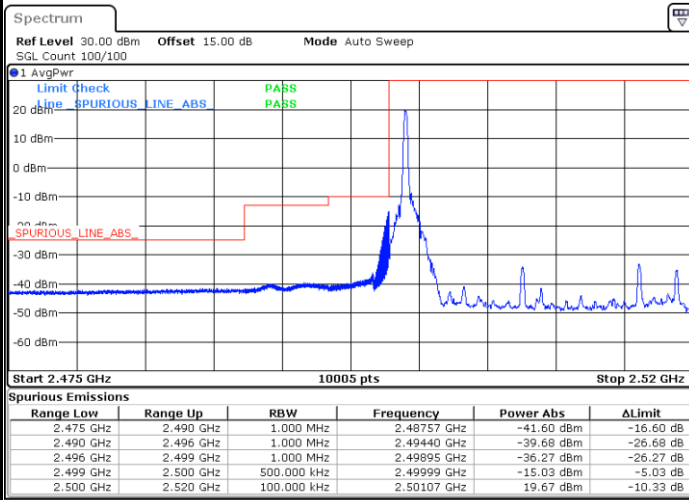
Highest Band Edge / Full RB



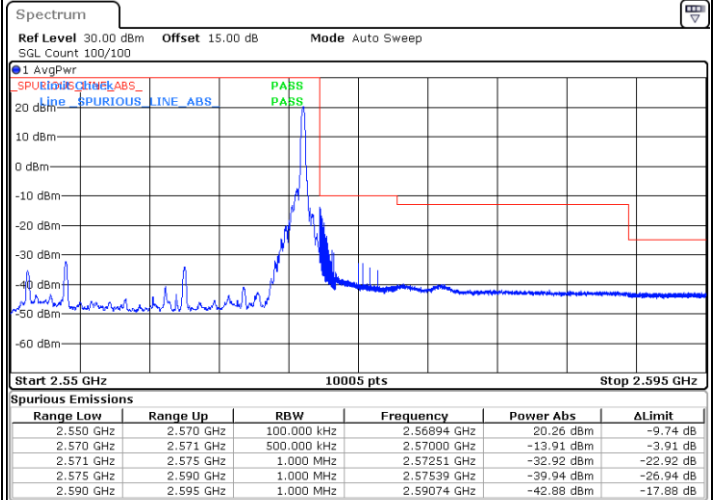


LTE Band 7 / 20MHz / QPSK

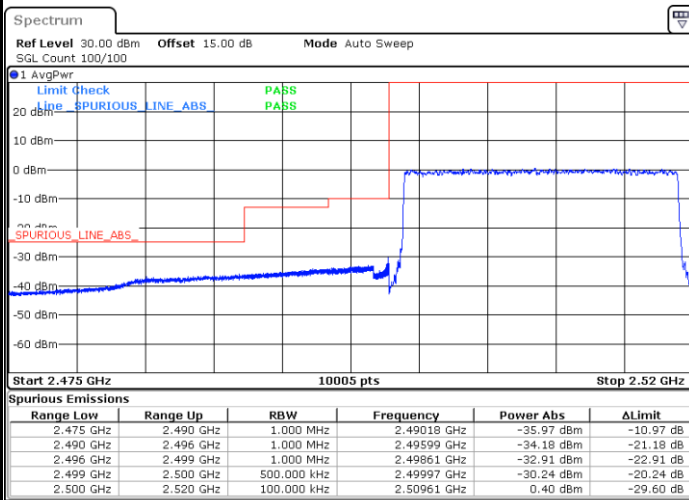
Lowest Band Edge / 1 RB



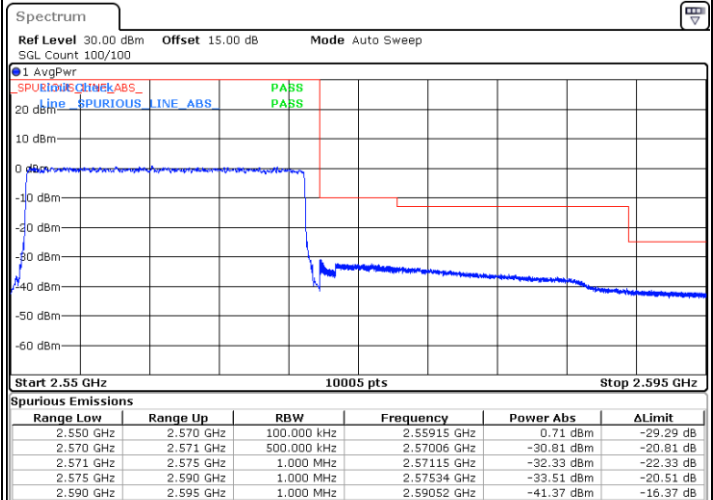
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



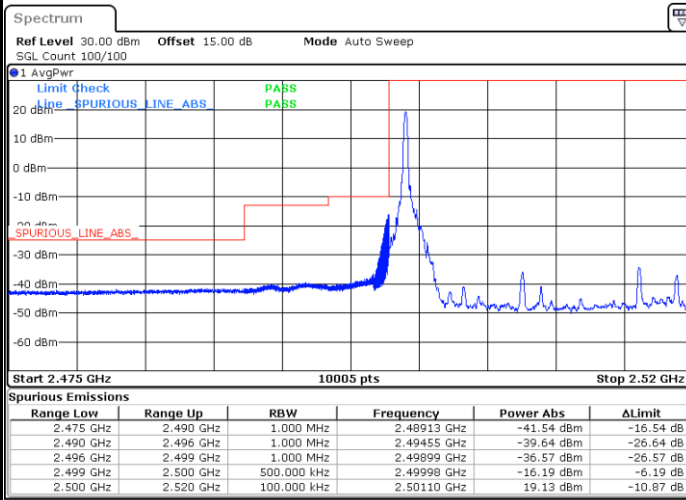
Highest Band Edge / Full RB





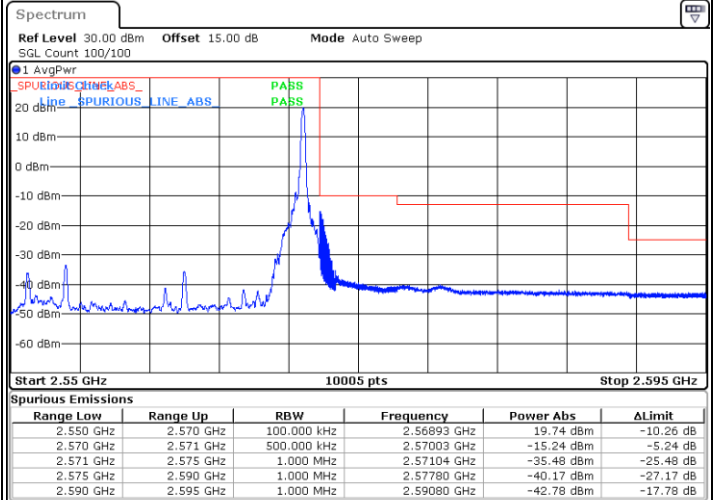
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB



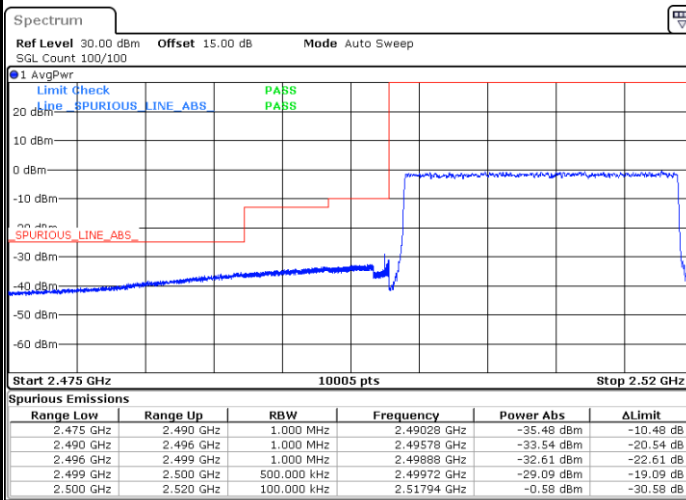
Date: 6.FEB.2025 02:12:58

Highest Band Edge / 1 RB



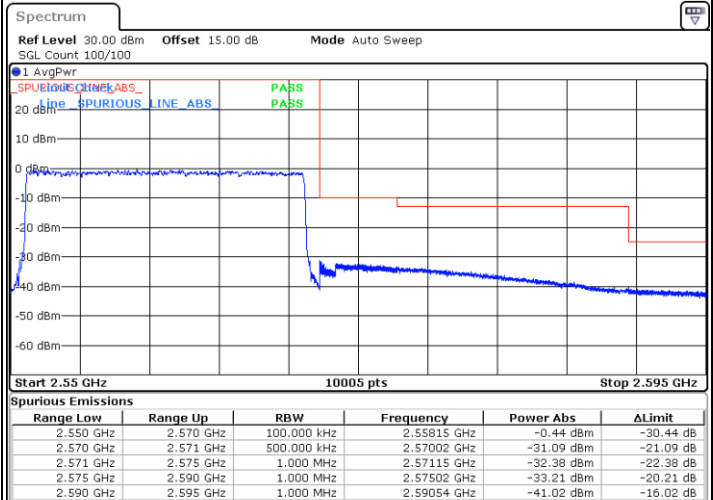
Date: 6.FEB.2025 02:24:40

Lowest Band Edge / Full RB



Date: 6.FEB.2025 02:16:16

Highest Band Edge / Full RB

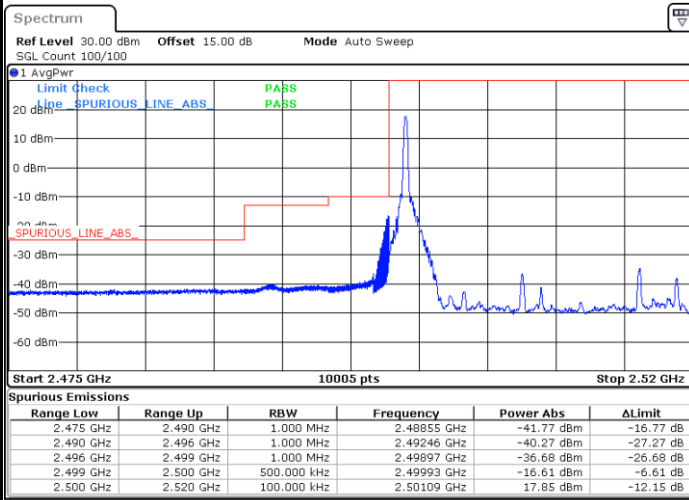


Date: 6.FEB.2025 02:27:57

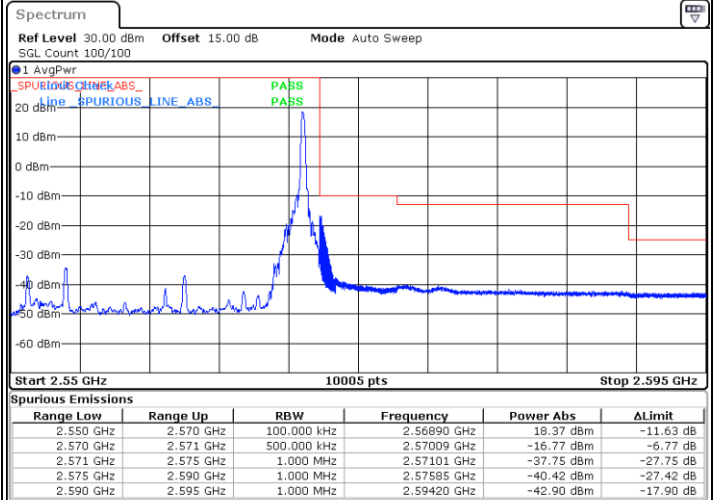


LTE Band 7 / 20MHz / 64QAM

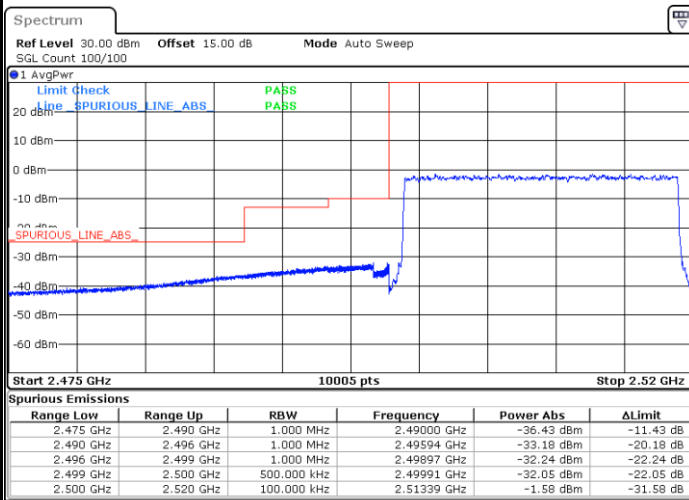
Lowest Band Edge / 1RB



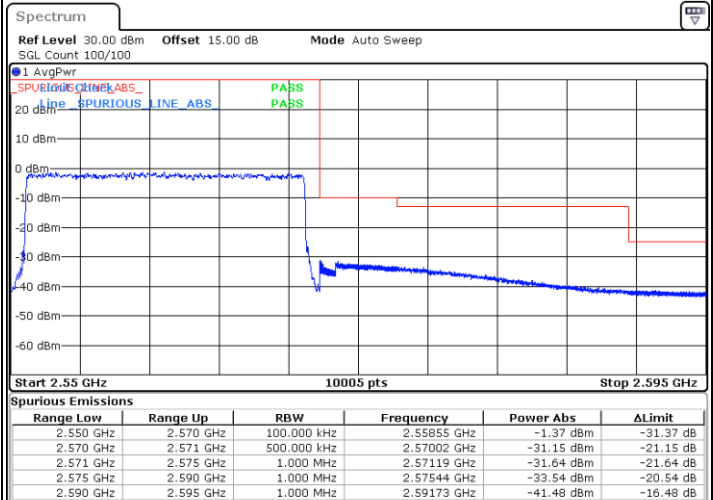
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

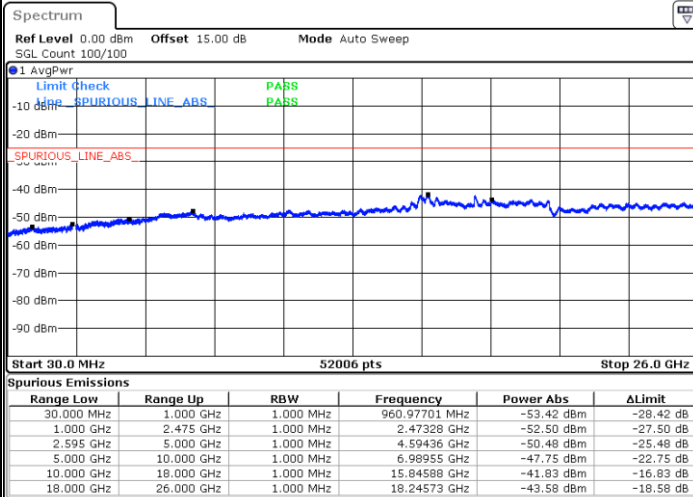




Conducted Spurious Emission

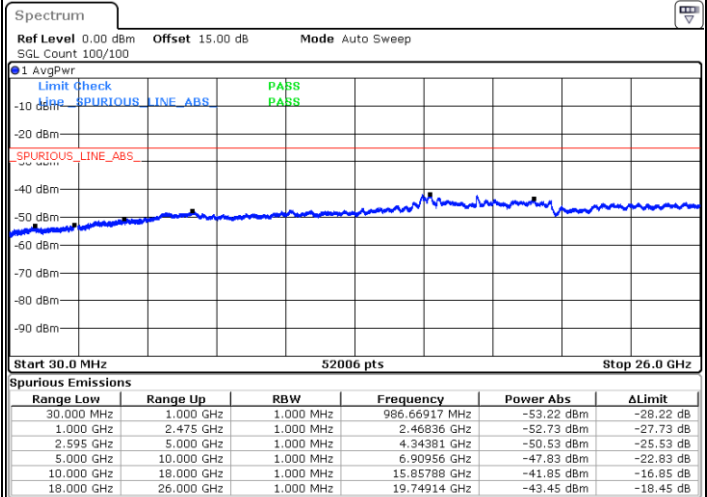
LTE Band 7 / 5MHz

Lowest Channel / QPSK



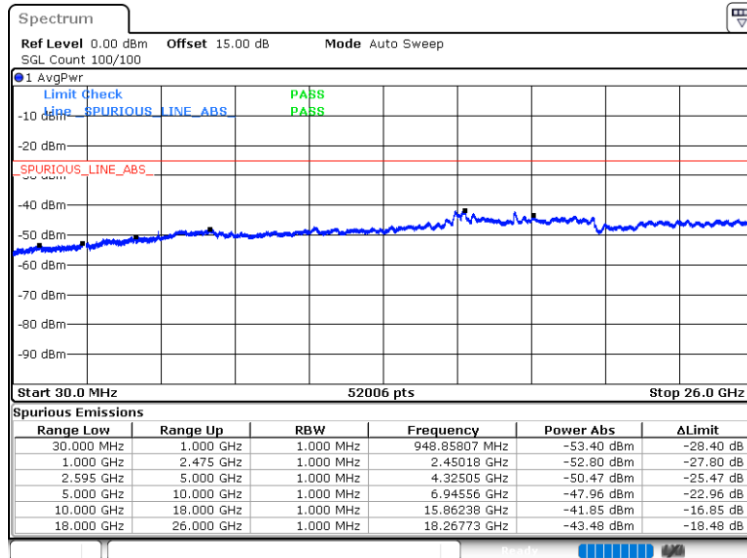
Date: 12.FEB.2025 13:17:59

Middle Channel / QPSK



Date: 12.FEB.2025 13:19:05

Highest Channel / QPSK

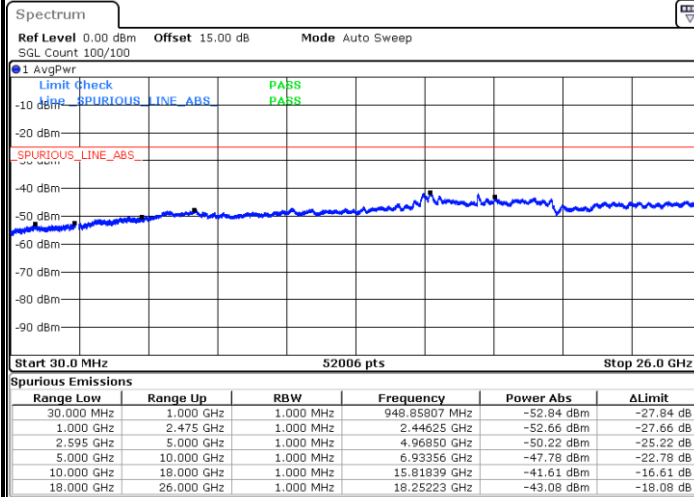


Date: 12.FEB.2025 13:25:37



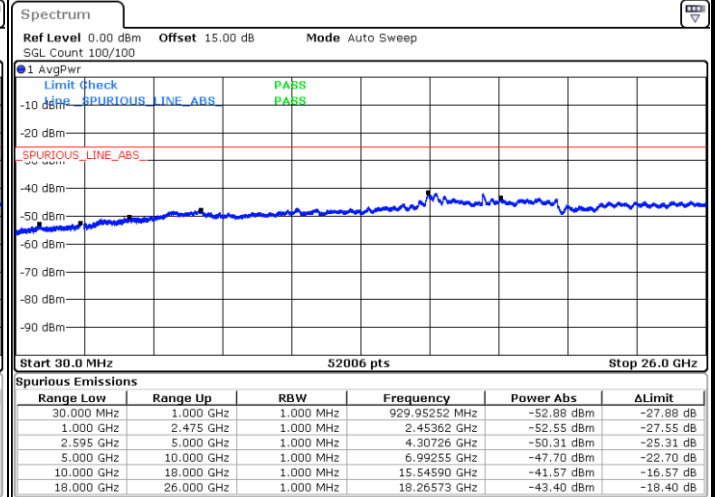
LTE Band 7 / 10MHz

Lowest Channel / QPSK



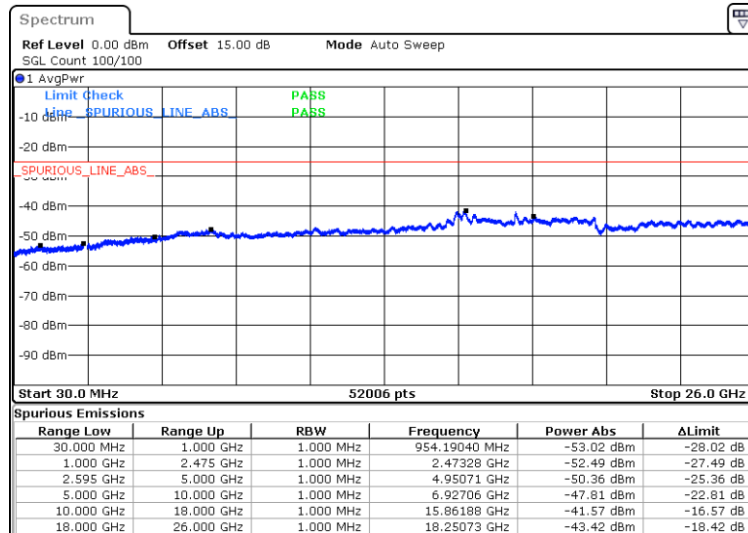
Date: 6.FEB.2025 01:40:48

Middle Channel / QPSK



Date: 6.FEB.2025 01:42:02

Highest Channel / QPSK

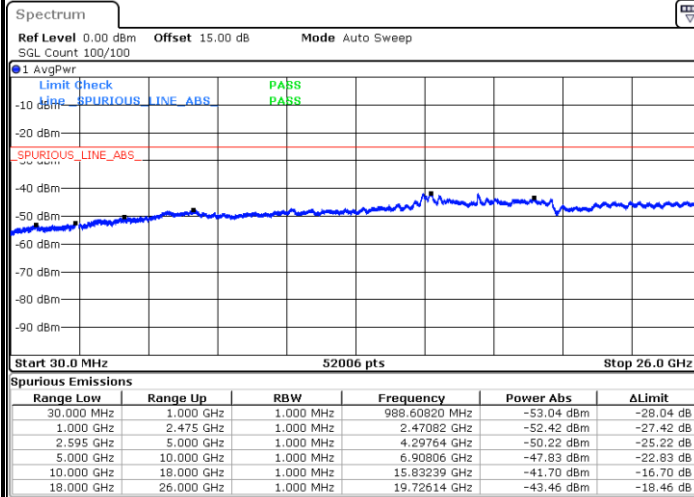


Date: 6.FEB.2025 01:51:09



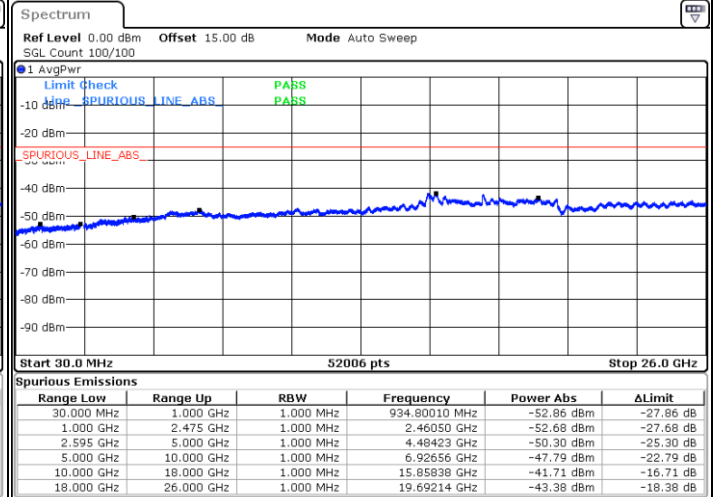
LTE Band 7 / 15MHz

Lowest Channel / QPSK



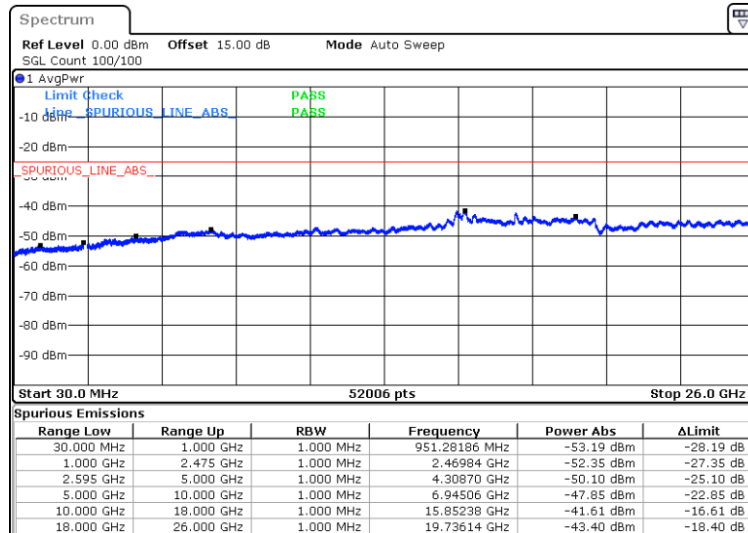
Date: 6.FEB.2025 01:59:42

Middle Channel / QPSK



Date: 6.FEB.2025 02:00:56

Highest Channel / QPSK

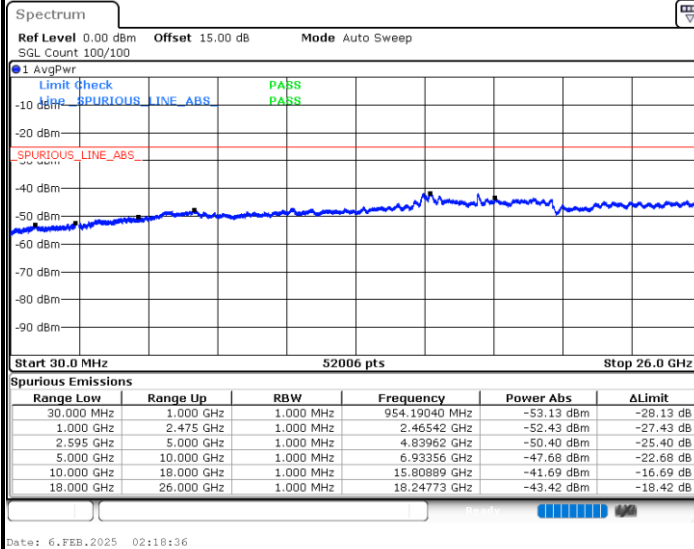


Date: 6.FEB.2025 02:10:03

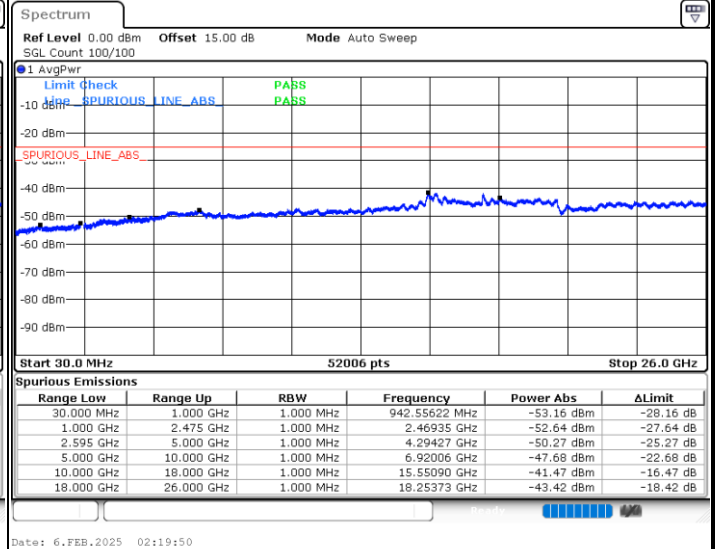


LTE Band 7 / 20MHz

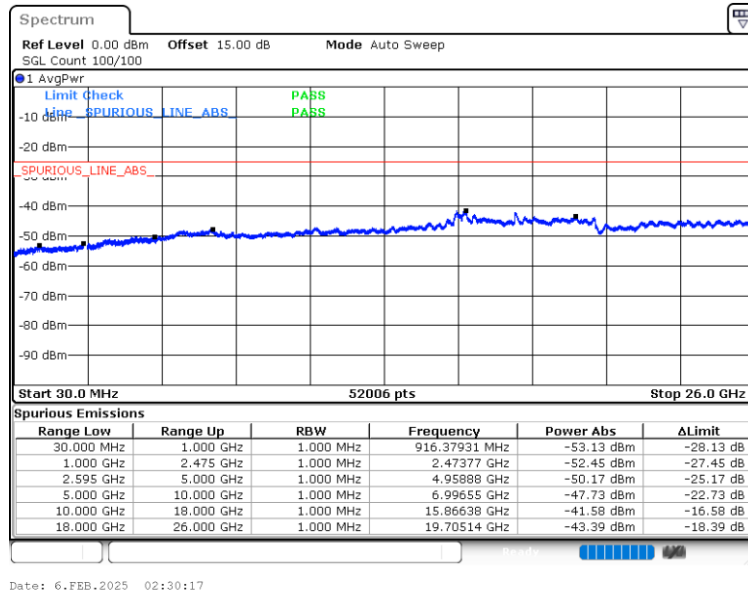
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK



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	0.0025	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0009	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0019	
-20	Normal Voltage	0.0030	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.92 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.53 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41

Peak-to-Average Ratio

Mode	LTE Band 41 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	5.68	6.61	6.84	PASS