



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2503-1, XT2505-3
FCC ID : IHDT56AU7
STANDARD : 47 CFR Part 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Dec. 26, 2024 ~ Jan. 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



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D1311C	Rev. 01	Initial issue of report	Jan. 24, 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 24.04 dB at 7578.27 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/manufacture 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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2503-1, XT2505-3
FCC ID	IHDT56AU7
IMEI Code	Conducted: 354424860019615 Radiation: 354424860020035/354424860020043
HW Version	DVT2
SW Version	V2VC35.13
EUT Stage	Identical Prototype

Note: There are two types of EUT, model name: XT2503-1 is sample 1 and model name: XT2505-3 is sample 2, the differences could be referred to the XT2503-1, XT2505-3_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, for RF report, we choose sample 1 to full test

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	<ANT0> LTE Band 7 : 21.27 dBm LTE CA_7C : 21.08 dBm LTE Band 38 : 21.27 dBm LTE CA_38C : 21.11 dBm LTE Band 41 : 21.32 dBm LTE CA_41C : 21.13 dBm <ANT1> LTE Band 7 : 23.67 dBm LTE CA_7C : 21.57 dBm LTE Band 38 : 23.58 dBm LTE CA_38C : 21.58 dBm LTE Band 41 : 23.64 dBm LTE CA_41C : 21.59 dBm <ANT2> LTE Band 7 : 22.67 dBm LTE CA_7C : 22.46 dBm LTE Band 38 : 22.46 dBm LTE CA_38C : 22.32 dBm LTE Band 41 : 22.49 dBm LTE CA_41C : 22.49 dBm <ANT9> LTE Band 7 : 22.63 dBm LTE CA_7C : 22.52 dBm LTE Band 38 : 22.58 dBm LTE CA_38C : 22.39 dBm LTE Band 41 : 22.61 dBm LTE CA_41C : 22.42 dBm
Antenna Gain	<ANT0> LTE Band 7/38/41 : -3.9 dBi <ANT1> LTE Band 7/38/41 : -1.3 dBi <ANT2> LTE Band 7/38/41 : -2.4 dBi <ANT9> LTE Band 7/38/41 : -6.1 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum EIRP is calculated from max output power and max antenna gain, so only the maximum EIRP of Antenna 1 for LTE Band7/7C/38/38C/41/41C are shown in the report.



2. The device supports two PAs for LTE Band 7/38/41, (main PA and other PA), both the PAs are full tested, only the worst EIRP 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/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2502.5 ~ 2567.5	0.1679	4M48G7D	0.1349	4M49W7D
10	2505.0 ~ 2565.0	0.1675	9M03G7D	0.1334	9M03W7D
15	2507.5 ~ 2562.5	0.1675	13M5G7D	0.1340	13M5W7D
20	2510.0 ~ 2560.0	0.1726	17M9G7D	0.1358	17M9W7D
LTE Band 38		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2572.5 ~ 2617.5	0.1652	4M51G7D	0.1327	4M50W7D
10	2575.0 ~ 2615.0	0.1652	9M03G7D	0.1318	9M05W7D
15	2577.5 ~ 2612.5	0.1652	13M5G7D	0.1321	13M4W7D
20	2580.0 ~ 2610.0	0.1690	17M8G7D	0.1352	17M9W7D
LTE Band 41		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	2498.5 ~ 2687.5	0.1648	4M51G7D	0.1337	4M50W7D
10	2501.0 ~ 2685.0	0.1671	9M03G7D	0.1334	9M05W7D
15	2503.5 ~ 2682.5	0.1652	13M5G7D	0.1321	13M4W7D
20	2506.0 ~ 2680.0	0.1714	17M8G7D	0.1361	17M9W7D
LTE Band 7 CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)		Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10MHz+20MHz		0.1014	28M1G7D	0.0863	28M1W7D
15MHz+15MHz		0.1012	28M6G7D	0.0877	28M5W7D
15MHz+20MHz		0.1002	32M9G7D	0.0873	32M9W7D
15MHz+10MHz		0.1012	23M6G7D	0.0873	23M5W7D



20MHz+10MHz	0.1030	28M0G7D	0.0869	28M0W7D
20MHz+15MHz	0.1019	32M9G7D	0.0857	32M9W7D
20MHz+20MHz	0.1064	37M6G7D	0.0914	37M8W7D
LTE Band 38 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
15MHz+15MHz	0.1028	28M5G7D	0.0857	28M6W7D
20MHz+20MHz	0.1067	37M7G7D	0.0908	37M6W7D
LTE Band 41 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz	0.0995	23M3G7D	0.0843	23M3W7D
10MHz+20MHz	0.1002	27M9G7D	0.0851	27M9W7D
10MHz+15MHz	0.1007	23M5G7D	0.0859	23M4W7D
15MHz+15MHz	0.1023	28M5G7D	0.0849	28M6W7D
15MHz+20MHz	0.1014	32M9G7D	0.0859	32M9W7D
15MHz+10MHz	0.0995	23M4G7D	0.0853	23M5W7D
20MHz+5MHz	0.1009	23M3G7D	0.0845	23M4W7D
20MHz+10MHz	0.0991	28M0G7D	0.0853	28M1W7D
20MHz+15MHz	0.1016	32M7G7D	0.0861	32M8W7D
20MHz+20MHz	0.1069	37M7G7D	0.0914	37M6W7D

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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

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.
	03CH01-SZ	CN1256	421272

1.8 Test Software

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



1.9 Applicable Standards

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

- ♦ 47 CFR Part 27(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.

1.10 Specification of Accessory

Accessories Information				
AC Adapter 1(US)	Brand Name	Motorola(Chenyang)	Model Name	MC-681N
AC Adapter 1(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-682N
AC Adapter 1(UK)	Brand Name	Motorola(Chenyang)	Model Name	MC-683N
AC Adapter 1(AU)	Brand Name	Motorola(Chenyang)	Model Name	MC-685N
AC Adapter 1(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-686N
AC Adapter 1(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-687N
AC Adapter 1(Chile)	Brand Name	Motorola(Chenyang)	Model Name	MC-689N
AC Adapter 2(US)	Brand Name	Motorola(Acbel)	Model Name	MC-681N
AC Adapter 2(EU)	Brand Name	Motorola(Acbel)	Model Name	MC-682N
AC Adapter 2(UK)	Brand Name	Motorola(Acbel)	Model Name	MC-683N
AC Adapter 2(AU)	Brand Name	Motorola(Acbel)	Model Name	MC-685N
AC Adapter 2(AR)	Brand Name	Motorola(Acbel)	Model Name	MC-686N
AC Adapter 2(BR)	Brand Name	Motorola(Acbel)	Model Name	MC-687N
AC Adapter 2(Chile)	Brand Name	Motorola(Acbel)	Model Name	MC-689N
Battery 1	Brand Name	Motorola(ATL)	Model Name	RM52
Battery 2	Brand Name	Motorola(Cosmx)	Model Name	RM52
USB Cable 1	Brand Name	Motorola(saibao)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(saibao)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103
Wireless Earphones	Brand Name	Motorola	Model Name	XT2443-1



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.

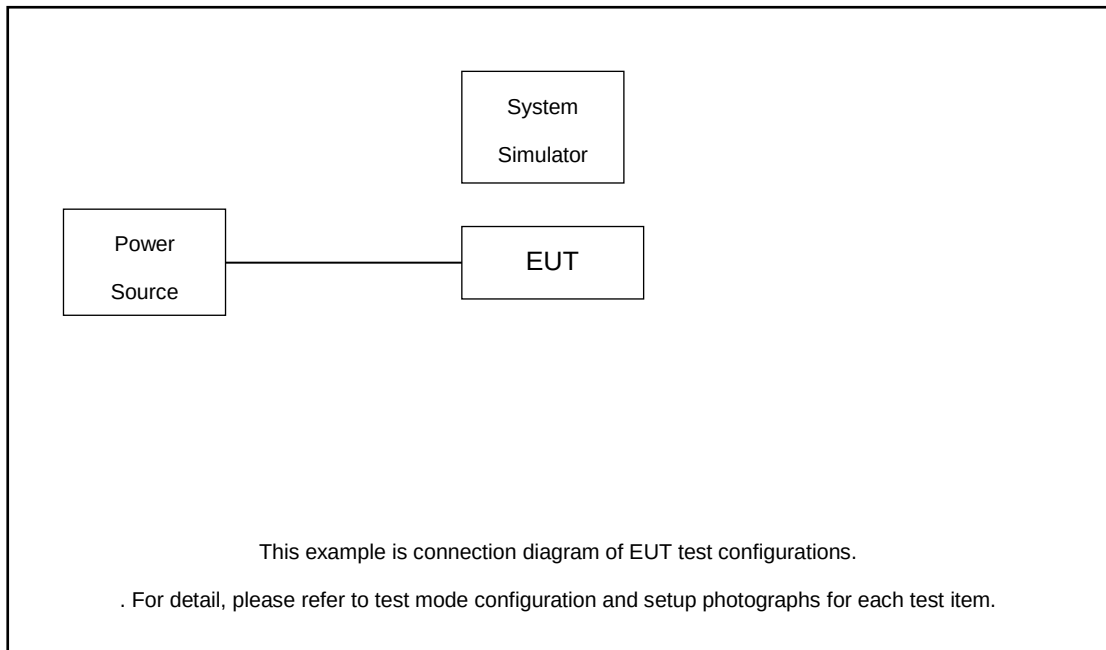
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes for Adapter mode and Earphone mode to find the maximum emission. (Y Plane)

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	v
	38	-	-	v	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	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	v
	38	-	-	v	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	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. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																



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	16 QAM	64 QAM	256 QAM	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	v
	38C_CA	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	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	v
	38C_CA	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	v
Radiated Spurious Emission	7C_CA	Worst Case																		v	
	41C_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. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																				

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

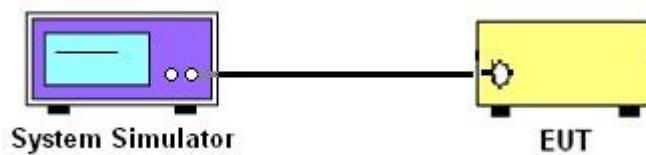
3 Conducted Test Items

3.1 Measuring Instruments

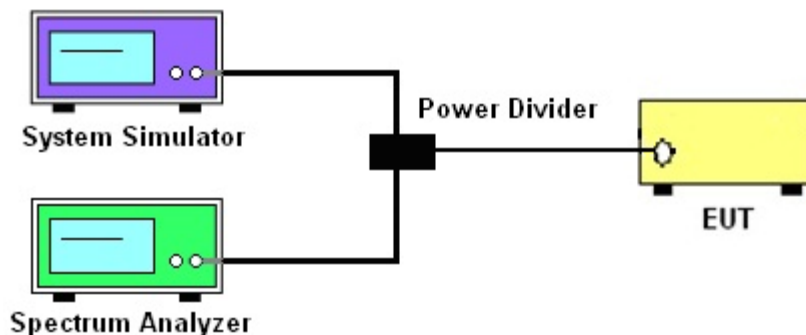
See list of measuring instruments of this test report.

3.2 Test Setup

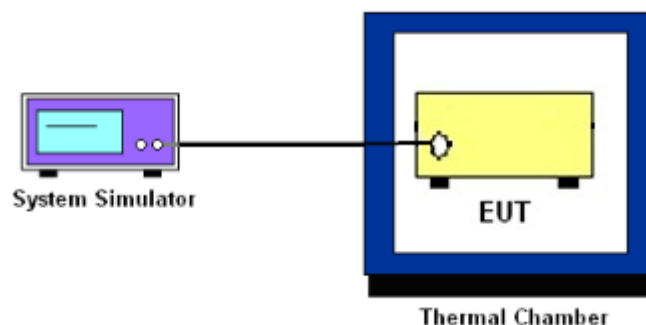
3.2.1 Conducted Output Power



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 EIRP

3.4.1 Description of the Conducted Output Power Measurement and 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

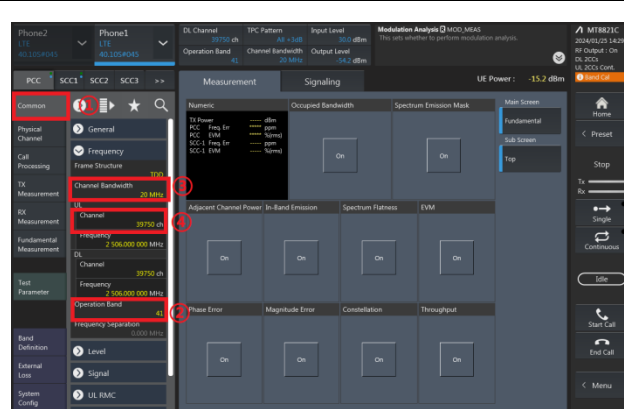
3.4.2 Test Procedures

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.

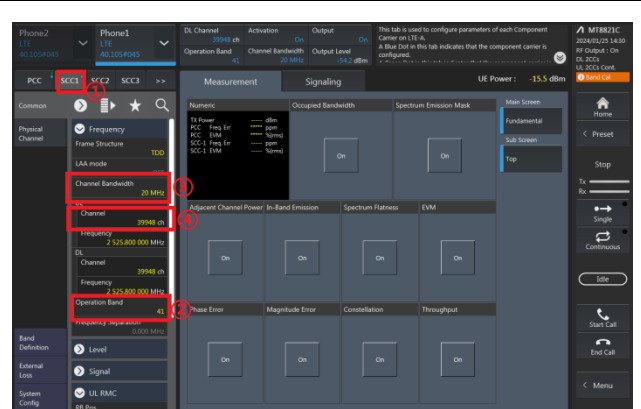
3.4.3 Test Procedures for LTE ULCA

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.

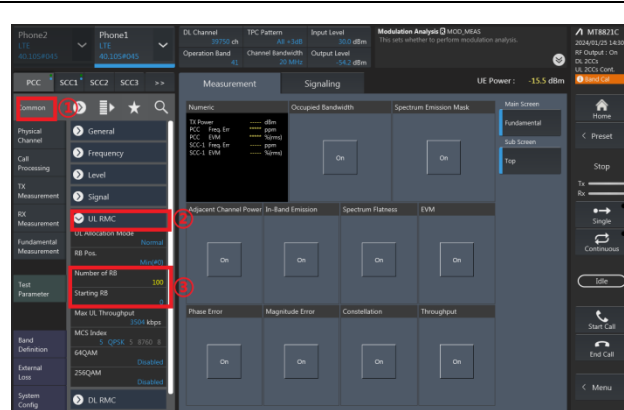
PCC config_ (Channel Bandwidth / Channel / Band)



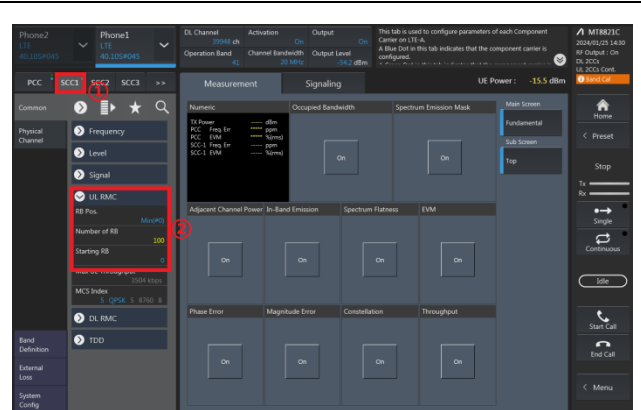
SCC config_ (Channel Bandwidth / Channel / Band)



PCC config_ (Number of RB / Starting RB)

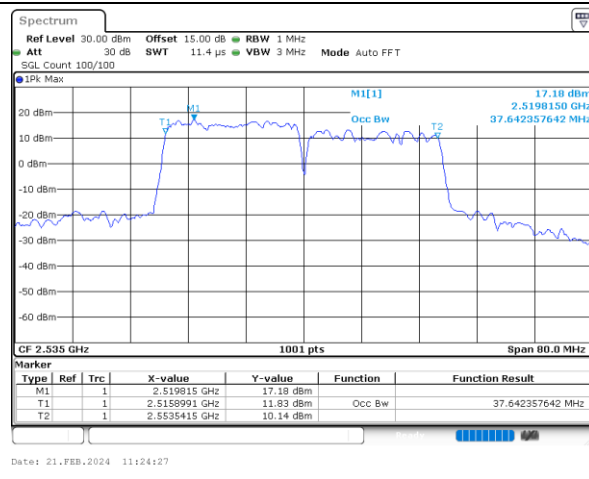


SCC config_ (Number of RB / Starting RB)

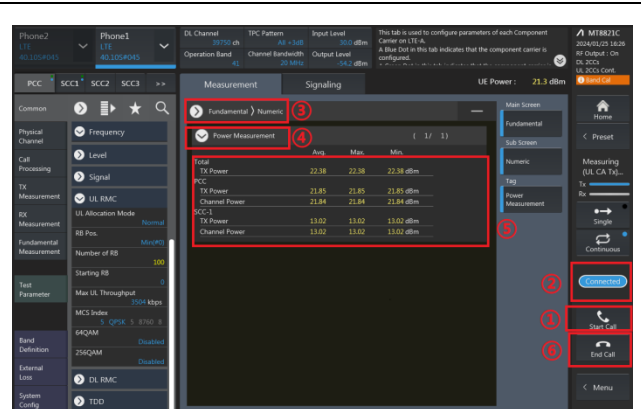


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

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 $\geq 1\%/2\%$ 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 or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 41. Duty factor $= 10 \log (1/x)$, where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. 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)

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

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

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

11. 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. Offset has included the duty factor for LTE Band 41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. 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)
= -13dBm.
12. 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)
= -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.

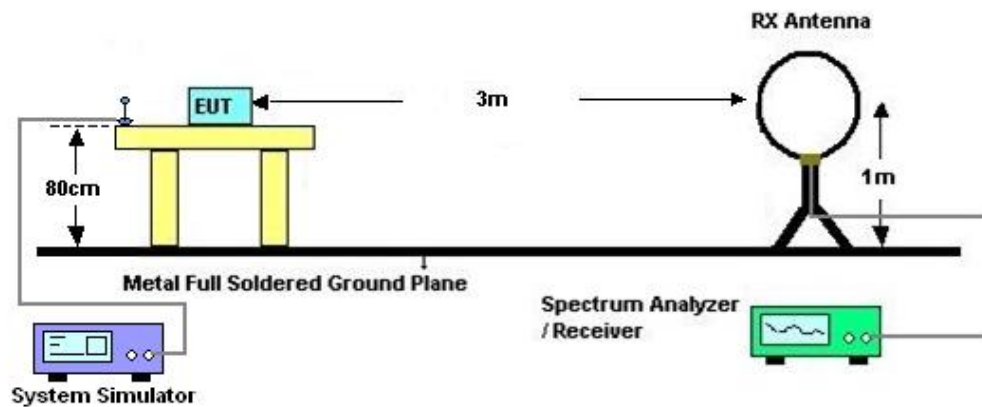
4 Radiated Test Items

4.1 Measuring Instruments

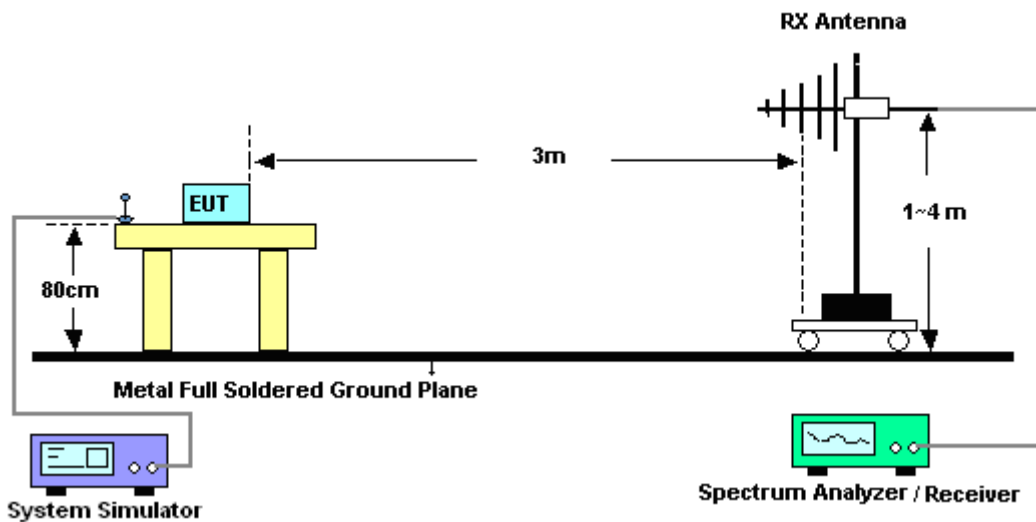
See list of measuring instruments of this test report.

4.2 Test Setup

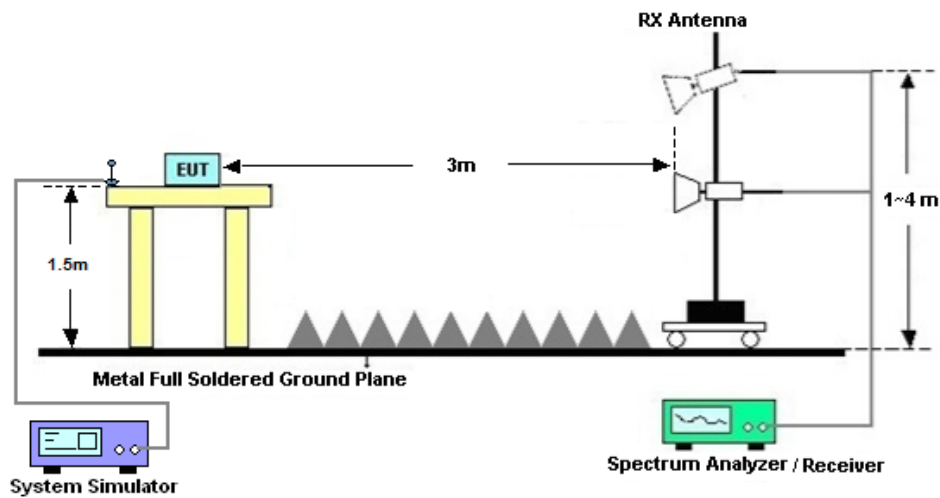
4.2.1 For radiated test below 30MHz



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.

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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Dec. 28, 2024~Jan. 24, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Dec. 28, 2024~Jan. 24, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhonggroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	Dec. 28, 2024~Jan. 24, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Dec. 26, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Dec. 26, 2024	Dec. 28, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Dec. 26, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Dec. 26, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Dec. 26, 2024	Jul. 03, 2025	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 09, 2024	Dec. 26, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 09, 2024	Dec. 26, 2024	Apr. 08, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-1	1943528	1GHz~18GHz	Oct. 14, 2024	Dec. 26, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Dec. 26, 2024	Jul. 02, 2025	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Dec. 26, 2024	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 26, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 26, 2024	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.48 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Fly	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

LTE Band7_ANT1:

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	23.61	23.67	23.56	0.1702	0.1726	0.1683
20	QPSK	1	49	23.50	23.59	23.48	0.1660	0.1694	0.1652
20	QPSK	1	99	23.49	23.55	23.52	0.1656	0.1679	0.1667
20	QPSK	50	0	22.59	22.64	22.61	0.1346	0.1361	0.1352
20	QPSK	50	24	22.59	22.52	22.46	0.1346	0.1324	0.1306
20	QPSK	50	50	22.48	22.58	22.51	0.1312	0.1343	0.1321
20	QPSK	100	0	22.54	22.62	22.55	0.1330	0.1355	0.1334
20	16QAM	1	0	22.63	22.56	22.59	0.1358	0.1337	0.1346
20	16QAM	1	49	22.59	22.59	22.56	0.1346	0.1346	0.1337
20	16QAM	1	99	22.48	22.57	22.51	0.1312	0.1340	0.1321
20	16QAM	50	0	21.51	21.62	21.55	0.1050	0.1076	0.1059
20	16QAM	50	24	21.53	21.57	21.49	0.1054	0.1064	0.1045
20	16QAM	50	50	21.47	21.51	21.50	0.1040	0.1050	0.1047
20	16QAM	100	0	21.54	21.61	21.49	0.1057	0.1074	0.1045
20	64QAM	1	0	21.52	21.64	21.42	0.1052	0.1081	0.1028
20	64QAM	1	49	21.49	21.58	21.49	0.1045	0.1067	0.1045
20	64QAM	1	99	21.42	21.49	21.47	0.1028	0.1045	0.1040
20	64QAM	50	0	20.55	20.64	20.55	0.0841	0.0859	0.0841
20	64QAM	50	24	20.56	20.60	20.46	0.0843	0.0851	0.0824
20	64QAM	50	50	20.51	20.61	20.50	0.0834	0.0853	0.0832
20	64QAM	100	0	20.50	20.57	20.43	0.0832	0.0845	0.0818
20	256QAM	1	0	18.50	18.48	18.51	0.0525	0.0522	0.0526
20	256QAM	1	49	18.42	18.53	18.49	0.0515	0.0528	0.0524
20	256QAM	1	99	18.50	18.54	18.55	0.0525	0.0530	0.0531
20	256QAM	50	0	18.56	18.67	18.62	0.0532	0.0546	0.0540
20	256QAM	50	24	18.53	18.51	18.48	0.0528	0.0526	0.0522
20	256QAM	50	50	18.48	18.56	18.52	0.0522	0.0532	0.0527
20	256QAM	100	0	18.47	18.52	18.53	0.0521	0.0527	0.0528
Channel				20825	21100	21375	EIRP(W)		
Frequency (MHz)				2507.5	2535	2562.5	L	M	H
15	QPSK	1	0	23.54	23.53	23.48	0.1675	0.1671	0.1652
15	QPSK	1	37	23.49	23.47	23.45	0.1656	0.1648	0.1641



15	QPSK	1	74	23.51	23.46	23.48	0.1663	0.1644	0.1652
15	QPSK	36	0	22.43	22.50	22.48	0.1297	0.1318	0.1312
15	QPSK	36	20	22.49	22.47	22.51	0.1315	0.1309	0.1321
15	QPSK	36	39	22.45	22.48	22.36	0.1303	0.1312	0.1276
15	QPSK	75	0	22.50	22.50	22.46	0.1318	0.1318	0.1306
15	16QAM	1	0	22.57	22.52	22.46	0.1340	0.1324	0.1306
15	16QAM	1	37	22.57	22.49	22.51	0.1340	0.1315	0.1321
15	16QAM	1	74	22.41	22.49	22.41	0.1291	0.1315	0.1291
15	16QAM	36	0	21.48	21.59	21.49	0.1042	0.1069	0.1045
15	16QAM	36	20	21.46	21.50	21.46	0.1038	0.1047	0.1038
15	16QAM	36	39	21.40	21.56	21.43	0.1023	0.1062	0.1030
15	16QAM	75	0	21.46	21.58	21.39	0.1038	0.1067	0.1021
15	64QAM	1	0	21.42	21.47	21.47	0.1028	0.1040	0.1040
15	64QAM	1	37	21.44	21.43	21.46	0.1033	0.1030	0.1038
15	64QAM	1	74	21.42	21.50	21.45	0.1028	0.1047	0.1035
15	64QAM	36	0	20.57	20.54	20.50	0.0845	0.0839	0.0832
15	64QAM	36	20	20.50	20.51	20.42	0.0832	0.0834	0.0817
15	64QAM	36	39	20.47	20.47	20.43	0.0826	0.0826	0.0818
15	64QAM	75	0	20.46	20.44	20.35	0.0824	0.0820	0.0804
15	256QAM	1	0	18.51	18.50	18.44	0.0526	0.0525	0.0518
15	256QAM	1	37	18.42	18.50	18.37	0.0515	0.0525	0.0509
15	256QAM	1	74	18.52	18.50	18.44	0.0527	0.0525	0.0518
15	256QAM	36	0	18.58	18.58	18.52	0.0535	0.0535	0.0527
15	256QAM	36	20	18.48	18.56	18.48	0.0522	0.0532	0.0522
15	256QAM	36	39	18.49	18.53	18.41	0.0524	0.0528	0.0514
15	256QAM	75	0	18.37	18.55	18.45	0.0509	0.0531	0.0519
Channel				20800	21100	21400	EIRP(W)		
Frequency (MHz)				2505	2535	2565	L	M	H
10	QPSK	1	0	23.44	23.54	23.52	0.1637	0.1675	0.1667
10	QPSK	1	25	23.44	23.50	23.39	0.1637	0.1660	0.1618
10	QPSK	1	49	23.42	23.51	23.52	0.1629	0.1663	0.1667
10	QPSK	25	0	22.47	22.49	22.47	0.1309	0.1315	0.1309
10	QPSK	25	12	22.49	22.56	22.44	0.1315	0.1337	0.1300
10	QPSK	25	25	22.41	22.52	22.36	0.1291	0.1324	0.1276
10	QPSK	50	0	22.50	22.56	22.45	0.1318	0.1337	0.1303
10	16QAM	1	0	22.49	22.55	22.49	0.1315	0.1334	0.1315
10	16QAM	1	25	22.55	22.48	22.52	0.1334	0.1312	0.1324
10	16QAM	1	49	22.41	22.46	22.45	0.1291	0.1306	0.1303
10	16QAM	25	0	21.43	21.52	21.49	0.1030	0.1052	0.1045
10	16QAM	25	12	21.42	21.46	21.48	0.1028	0.1038	0.1042
10	16QAM	25	25	21.35	21.54	21.44	0.1012	0.1057	0.1033
10	16QAM	50	0	21.55	21.50	21.40	0.1059	0.1047	0.1023
10	64QAM	1	0	21.43	21.54	21.40	0.1030	0.1057	0.1023
10	64QAM	1	25	21.47	21.46	21.43	0.1040	0.1038	0.1030
10	64QAM	1	49	21.38	21.43	21.43	0.1019	0.1030	0.1030
10	64QAM	25	0	20.49	20.49	20.43	0.0830	0.0830	0.0818
10	64QAM	25	12	20.55	20.49	20.36	0.0841	0.0830	0.0805



10	64QAM	25	25	20.40	20.52	20.44	0.0813	0.0836	0.0820
10	64QAM	50	0	20.44	20.51	20.37	0.0820	0.0834	0.0807
10	256QAM	1	0	18.43	18.50	18.44	0.0516	0.0525	0.0518
10	256QAM	1	25	18.36	18.45	18.37	0.0508	0.0519	0.0509
10	256QAM	1	49	18.46	18.52	18.39	0.0520	0.0527	0.0512
10	256QAM	25	0	18.53	18.58	18.53	0.0528	0.0535	0.0528
10	256QAM	25	12	18.46	18.48	18.43	0.0520	0.0522	0.0516
10	256QAM	25	25	18.48	18.56	18.42	0.0522	0.0532	0.0515
10	256QAM	50	0	18.45	18.51	18.48	0.0519	0.0526	0.0522
Channel				20775	21100	21425	EIRP(W)		
Frequency (MHz)				2502.5	2535	2567.5	L	M	H
5	QPSK	1	0	23.53	23.50	23.55	0.1671	0.1660	0.1679
5	QPSK	1	12	23.46	23.53	23.46	0.1644	0.1671	0.1644
5	QPSK	1	24	23.41	23.50	23.52	0.1626	0.1660	0.1667
5	QPSK	12	0	22.46	22.48	22.52	0.1306	0.1312	0.1324
5	QPSK	12	7	22.45	22.46	22.41	0.1303	0.1306	0.1291
5	QPSK	12	13	22.47	22.55	22.35	0.1309	0.1334	0.1274
5	QPSK	25	0	22.45	22.46	22.44	0.1303	0.1306	0.1300
5	16QAM	1	0	22.56	22.60	22.53	0.1337	0.1349	0.1327
5	16QAM	1	12	22.54	22.56	22.54	0.1330	0.1337	0.1330
5	16QAM	1	24	22.38	22.52	22.39	0.1282	0.1324	0.1285
5	16QAM	12	0	21.43	21.49	21.54	0.1030	0.1045	0.1057
5	16QAM	12	7	21.39	21.49	21.41	0.1021	0.1045	0.1026
5	16QAM	12	13	21.42	21.45	21.46	0.1028	0.1035	0.1038
5	16QAM	25	0	21.54	21.48	21.45	0.1057	0.1042	0.1035
5	64QAM	1	0	21.46	21.55	21.45	0.1038	0.1059	0.1035
5	64QAM	1	12	21.45	21.48	21.44	0.1035	0.1042	0.1033
5	64QAM	1	24	21.41	21.49	21.38	0.1026	0.1045	0.1019
5	64QAM	12	0	20.53	20.56	20.47	0.0838	0.0843	0.0826
5	64QAM	12	7	20.52	20.51	20.42	0.0836	0.0834	0.0817
5	64QAM	12	13	20.37	20.54	20.40	0.0807	0.0839	0.0813
5	64QAM	25	0	20.44	20.50	20.39	0.0820	0.0832	0.0811
5	256QAM	1	0	18.52	18.46	18.44	0.0527	0.0520	0.0518
5	256QAM	1	12	18.43	18.41	18.39	0.0516	0.0514	0.0512
5	256QAM	1	24	18.48	18.52	18.49	0.0522	0.0527	0.0524
5	256QAM	12	0	18.59	18.59	18.59	0.0536	0.0536	0.0536
5	256QAM	12	7	18.44	18.49	18.39	0.0518	0.0524	0.0512
5	256QAM	12	13	18.39	18.56	18.49	0.0512	0.0532	0.0524
5	256QAM	25	0	18.42	18.51	18.54	0.0515	0.0526	0.0530



LTE Band38_ANT1:

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	23.55	23.58	23.52	0.1679	0.1690	0.1667
20	QPSK	1	49	23.47	23.50	23.37	0.1648	0.1660	0.1611
20	QPSK	1	99	23.49	23.53	23.43	0.1656	0.1671	0.1633
20	QPSK	50	0	22.52	22.56	22.54	0.1324	0.1337	0.1330
20	QPSK	50	24	22.54	22.49	22.45	0.1330	0.1315	0.1303
20	QPSK	50	50	22.37	22.52	22.42	0.1279	0.1324	0.1294
20	QPSK	100	0	22.47	22.53	22.49	0.1309	0.1327	0.1315
20	16QAM	1	0	22.49	22.61	22.49	0.1315	0.1352	0.1315
20	16QAM	1	49	22.50	22.52	22.54	0.1318	0.1324	0.1330
20	16QAM	1	99	22.37	22.46	22.42	0.1279	0.1306	0.1294
20	16QAM	50	0	21.44	21.58	21.46	0.1033	0.1067	0.1038
20	16QAM	50	24	21.42	21.49	21.50	0.1028	0.1045	0.1047
20	16QAM	50	50	21.41	21.48	21.49	0.1026	0.1042	0.1045
20	16QAM	100	0	21.54	21.55	21.51	0.1057	0.1059	0.1050
20	64QAM	1	0	21.45	21.54	21.41	0.1035	0.1057	0.1026
20	64QAM	1	49	21.40	21.47	21.39	0.1023	0.1040	0.1021
20	64QAM	1	99	21.36	21.45	21.44	0.1014	0.1035	0.1033
20	64QAM	50	0	20.48	20.51	20.45	0.0828	0.0834	0.0822
20	64QAM	50	24	20.49	20.57	20.41	0.0830	0.0845	0.0815
20	64QAM	50	50	20.42	20.53	20.50	0.0817	0.0838	0.0832
20	64QAM	100	0	20.46	20.52	20.42	0.0824	0.0836	0.0817
20	256QAM	1	0	18.45	18.45	18.45	0.0519	0.0519	0.0519
20	256QAM	1	49	18.34	18.44	18.38	0.0506	0.0518	0.0511
20	256QAM	1	99	18.53	18.56	18.40	0.0528	0.0532	0.0513
20	256QAM	50	0	18.49	18.60	18.48	0.0524	0.0537	0.0522
20	256QAM	50	24	18.42	18.47	18.43	0.0515	0.0521	0.0516
20	256QAM	50	50	18.39	18.49	18.50	0.0512	0.0524	0.0525
20	256QAM	100	0	18.42	18.54	18.51	0.0515	0.0530	0.0526
Channel				37825	38000	38175	EIRP(W)		
Frequency (MHz)				2577.5	2595	2612.5	L	M	H
15	QPSK	1	0	23.42	23.46	23.40	0.1629	0.1644	0.1622
15	QPSK	1	37	23.33	23.48	23.38	0.1596	0.1652	0.1614
15	QPSK	1	74	23.40	23.47	23.41	0.1622	0.1648	0.1626
15	QPSK	36	0	22.47	22.53	22.42	0.1309	0.1327	0.1294
15	QPSK	36	20	22.48	22.49	22.37	0.1312	0.1315	0.1279
15	QPSK	36	39	22.42	22.44	22.38	0.1294	0.1300	0.1282
15	QPSK	75	0	22.47	22.41	22.47	0.1309	0.1291	0.1309
15	16QAM	1	0	22.45	22.46	22.47	0.1303	0.1306	0.1309
15	16QAM	1	37	22.40	22.51	22.41	0.1288	0.1321	0.1291
15	16QAM	1	74	22.39	22.43	22.35	0.1285	0.1297	0.1274
15	16QAM	36	0	21.36	21.55	21.52	0.1014	0.1059	0.1052
15	16QAM	36	20	21.36	21.41	21.40	0.1014	0.1026	0.1023



15	16QAM	36	39	21.33	21.42	21.44	0.1007	0.1028	0.1033
15	16QAM	75	0	21.44	21.53	21.42	0.1033	0.1054	0.1028
15	64QAM	1	0	21.39	21.52	21.33	0.1021	0.1052	0.1007
15	64QAM	1	37	21.38	21.45	21.36	0.1019	0.1035	0.1014
15	64QAM	1	74	21.40	21.39	21.41	0.1023	0.1021	0.1026
15	64QAM	36	0	20.46	20.48	20.41	0.0824	0.0828	0.0815
15	64QAM	36	20	20.51	20.43	20.42	0.0834	0.0818	0.0817
15	64QAM	36	39	20.37	20.43	20.35	0.0807	0.0818	0.0804
15	64QAM	75	0	20.39	20.43	20.28	0.0811	0.0818	0.0791
15	256QAM	1	0	18.45	18.42	18.36	0.0519	0.0515	0.0508
15	256QAM	1	37	18.37	18.46	18.33	0.0509	0.0520	0.0505
15	256QAM	1	74	18.41	18.43	18.34	0.0514	0.0516	0.0506
15	256QAM	36	0	18.47	18.48	18.43	0.0521	0.0522	0.0516
15	256QAM	36	20	18.43	18.42	18.35	0.0516	0.0515	0.0507
15	256QAM	36	39	18.34	18.46	18.44	0.0506	0.0520	0.0518
15	256QAM	75	0	18.38	18.48	18.45	0.0511	0.0522	0.0519
Channel				37800	38000	38200	EIRP(W)		
Frequency (MHz)				2575	2595	2615	L	M	H
10	QPSK	1	0	23.38	23.44	23.40	0.1614	0.1637	0.1622
10	QPSK	1	25	23.37	23.42	23.38	0.1611	0.1629	0.1614
10	QPSK	1	49	23.40	23.48	23.42	0.1622	0.1652	0.1629
10	QPSK	25	0	22.39	22.48	22.49	0.1285	0.1312	0.1315
10	QPSK	25	12	22.50	22.41	22.42	0.1318	0.1291	0.1294
10	QPSK	25	25	22.32	22.40	22.32	0.1265	0.1288	0.1265
10	QPSK	50	0	22.46	22.51	22.43	0.1306	0.1321	0.1297
10	16QAM	1	0	22.50	22.48	22.41	0.1318	0.1312	0.1291
10	16QAM	1	25	22.40	22.44	22.45	0.1288	0.1300	0.1303
10	16QAM	1	49	22.29	22.40	22.41	0.1256	0.1288	0.1291
10	16QAM	25	0	21.43	21.54	21.42	0.1030	0.1057	0.1028
10	16QAM	25	12	21.33	21.44	21.47	0.1007	0.1033	0.1040
10	16QAM	25	25	21.39	21.47	21.42	0.1021	0.1040	0.1028
10	16QAM	50	0	21.48	21.48	21.44	0.1042	0.1042	0.1033
10	64QAM	1	0	21.38	21.48	21.43	0.1019	0.1042	0.1030
10	64QAM	1	25	21.42	21.41	21.40	0.1028	0.1026	0.1023
10	64QAM	1	49	21.32	21.45	21.35	0.1005	0.1035	0.1012
10	64QAM	25	0	20.45	20.50	20.46	0.0822	0.0832	0.0824
10	64QAM	25	12	20.47	20.45	20.32	0.0826	0.0822	0.0798
10	64QAM	25	25	20.43	20.48	20.37	0.0818	0.0828	0.0807
10	64QAM	50	0	20.37	20.48	20.34	0.0807	0.0828	0.0802
10	256QAM	1	0	18.38	18.39	18.36	0.0511	0.0512	0.0508
10	256QAM	1	25	18.31	18.39	18.28	0.0502	0.0512	0.0499
10	256QAM	1	49	18.40	18.50	18.45	0.0513	0.0525	0.0519
10	256QAM	25	0	18.48	18.52	18.53	0.0522	0.0527	0.0528
10	256QAM	25	12	18.40	18.46	18.39	0.0513	0.0520	0.0512
10	256QAM	25	25	18.36	18.52	18.37	0.0508	0.0527	0.0509
10	256QAM	50	0	18.39	18.44	18.45	0.0512	0.0518	0.0519
Channel				37775	38000	38225	EIRP(W)		
Frequency (MHz)				2572.5	2595	2617.5	L	M	H



5	QPSK	1	0	23.48	23.46	23.39	0.1652	0.1644	0.1618
5	QPSK	1	12	23.35	23.39	23.34	0.1603	0.1618	0.1600
5	QPSK	1	24	23.45	23.45	23.42	0.1641	0.1641	0.1629
5	QPSK	12	0	22.39	22.44	22.51	0.1285	0.1300	0.1321
5	QPSK	12	7	22.52	22.43	22.42	0.1324	0.1297	0.1294
5	QPSK	12	13	22.38	22.44	22.37	0.1282	0.1300	0.1279
5	QPSK	25	0	22.46	22.49	22.36	0.1306	0.1315	0.1276
5	16QAM	1	0	22.47	22.48	22.39	0.1309	0.1312	0.1285
5	16QAM	1	12	22.45	22.53	22.48	0.1303	0.1327	0.1312
5	16QAM	1	24	22.41	22.42	22.36	0.1291	0.1294	0.1276
5	16QAM	12	0	21.45	21.52	21.42	0.1035	0.1052	0.1028
5	16QAM	12	7	21.41	21.38	21.47	0.1026	0.1019	0.1040
5	16QAM	12	13	21.37	21.40	21.43	0.1016	0.1023	0.1030
5	16QAM	25	0	21.42	21.46	21.40	0.1028	0.1038	0.1023
5	64QAM	1	0	21.45	21.49	21.39	0.1035	0.1045	0.1021
5	64QAM	1	12	21.38	21.45	21.35	0.1019	0.1035	0.1012
5	64QAM	1	24	21.37	21.38	21.35	0.1016	0.1019	0.1012
5	64QAM	12	0	20.53	20.50	20.46	0.0838	0.0832	0.0824
5	64QAM	12	7	20.51	20.48	20.35	0.0834	0.0828	0.0804
5	64QAM	12	13	20.38	20.48	20.37	0.0809	0.0828	0.0807
5	64QAM	25	0	20.40	20.48	20.37	0.0813	0.0828	0.0807
5	256QAM	1	0	18.48	18.46	18.35	0.0522	0.0520	0.0507
5	256QAM	1	12	18.37	18.35	18.36	0.0509	0.0507	0.0508
5	256QAM	1	24	18.48	18.41	18.42	0.0522	0.0514	0.0515
5	256QAM	12	0	18.51	18.53	18.49	0.0526	0.0528	0.0524
5	256QAM	12	7	18.34	18.47	18.39	0.0506	0.0521	0.0512
5	256QAM	12	13	18.40	18.52	18.44	0.0513	0.0527	0.0518
5	256QAM	25	0	18.32	18.39	18.40	0.0504	0.0512	0.0513

LTE Band41_ANT1:

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	23.57	23.64	23.62	0.1687	0.1714	0.1706
20	QPSK	1	49	23.49	23.51	23.50	0.1656	0.1663	0.1660
20	QPSK	1	99	23.52	23.51	23.55	0.1667	0.1663	0.1679
20	QPSK	50	0	22.55	22.63	22.53	0.1334	0.1358	0.1327
20	QPSK	50	24	22.61	22.55	22.50	0.1352	0.1334	0.1318
20	QPSK	50	50	22.46	22.57	22.46	0.1306	0.1340	0.1306
20	QPSK	100	0	22.59	22.61	22.49	0.1346	0.1352	0.1315
20	16QAM	1	0	22.60	22.64	22.53	0.1349	0.1361	0.1327
20	16QAM	1	49	22.59	22.56	22.60	0.1346	0.1337	0.1349
20	16QAM	1	99	22.45	22.51	22.47	0.1303	0.1321	0.1309
20	16QAM	50	0	21.54	21.54	21.58	0.1057	0.1057	0.1067
20	16QAM	50	24	21.45	21.58	21.49	0.1035	0.1067	0.1045



20	16QAM	50	50	21.50	21.55	21.51	0.1047	0.1059	0.1050
20	16QAM	100	0	21.52	21.59	21.51	0.1052	0.1069	0.1050
20	64QAM	1	0	21.47	21.52	21.50	0.1040	0.1052	0.1047
20	64QAM	1	49	21.41	21.44	21.44	0.1026	0.1033	0.1033
20	64QAM	1	99	21.45	21.46	21.51	0.1035	0.1038	0.1050
20	64QAM	50	0	20.58	20.61	20.56	0.0847	0.0853	0.0843
20	64QAM	50	24	20.52	20.51	20.49	0.0836	0.0834	0.0830
20	64QAM	50	50	20.46	20.49	20.52	0.0824	0.0830	0.0836
20	64QAM	100	0	20.53	20.49	20.37	0.0838	0.0830	0.0807
20	256QAM	1	0	18.49	18.47	18.48	0.0524	0.0521	0.0522
20	256QAM	1	49	18.44	18.51	18.41	0.0518	0.0526	0.0514
20	256QAM	1	99	18.56	18.53	18.44	0.0532	0.0528	0.0518
20	256QAM	50	0	18.57	18.63	18.59	0.0533	0.0541	0.0536
20	256QAM	50	24	18.43	18.55	18.53	0.0516	0.0531	0.0528
20	256QAM	50	50	18.43	18.58	18.49	0.0516	0.0535	0.0524
20	256QAM	100	0	18.41	18.50	18.52	0.0514	0.0525	0.0527
Channel				39725	40620	41515	EIRP(W)		
Frequency (MHz)				2503.5	2593	2682.5	L	M	H
15	QPSK	1	0	23.46	23.45	23.48	0.1644	0.1641	0.1652
15	QPSK	1	37	23.35	23.42	23.38	0.1603	0.1629	0.1614
15	QPSK	1	74	23.47	23.44	23.46	0.1648	0.1637	0.1644
15	QPSK	36	0	22.40	22.48	22.53	0.1288	0.1312	0.1327
15	QPSK	36	20	22.46	22.52	22.38	0.1306	0.1324	0.1282
15	QPSK	36	39	22.32	22.45	22.38	0.1265	0.1303	0.1282
15	QPSK	75	0	22.42	22.45	22.40	0.1294	0.1303	0.1288
15	16QAM	1	0	22.51	22.47	22.44	0.1321	0.1309	0.1300
15	16QAM	1	37	22.47	22.51	22.45	0.1309	0.1321	0.1303
15	16QAM	1	74	22.33	22.44	22.38	0.1268	0.1300	0.1282
15	16QAM	36	0	21.37	21.49	21.42	0.1016	0.1045	0.1028
15	16QAM	36	20	21.34	21.43	21.46	0.1009	0.1030	0.1038
15	16QAM	36	39	21.39	21.46	21.36	0.1021	0.1038	0.1014
15	16QAM	75	0	21.48	21.43	21.41	0.1042	0.1030	0.1026
15	64QAM	1	0	21.46	21.47	21.32	0.1038	0.1040	0.1005
15	64QAM	1	37	21.34	21.40	21.39	0.1009	0.1023	0.1021
15	64QAM	1	74	21.32	21.43	21.40	0.1005	0.1030	0.1023
15	64QAM	36	0	20.49	20.51	20.37	0.0830	0.0834	0.0807
15	64QAM	36	20	20.46	20.44	20.36	0.0824	0.0820	0.0805
15	64QAM	36	39	20.41	20.52	20.37	0.0815	0.0836	0.0807
15	64QAM	75	0	20.40	20.41	20.29	0.0813	0.0815	0.0793
15	256QAM	1	0	18.47	18.42	18.40	0.0521	0.0515	0.0513
15	256QAM	1	37	18.39	18.39	18.35	0.0512	0.0512	0.0507
15	256QAM	1	74	18.49	18.50	18.42	0.0524	0.0525	0.0515
15	256QAM	36	0	18.49	18.48	18.47	0.0524	0.0522	0.0521
15	256QAM	36	20	18.42	18.40	18.33	0.0515	0.0513	0.0505
15	256QAM	36	39	18.36	18.47	18.35	0.0508	0.0521	0.0507
15	256QAM	75	0	18.38	18.47	18.45	0.0511	0.0521	0.0519
Channel				39700	40620	41540	EIRP(W)		
Frequency (MHz)				2501	2593	2685	L	M	H



10	QPSK	1	0	23.37	23.53	23.46	0.1611	0.1671	0.1644
10	QPSK	1	25	23.42	23.44	23.32	0.1629	0.1637	0.1592
10	QPSK	1	49	23.44	23.41	23.43	0.1637	0.1626	0.1633
10	QPSK	25	0	22.44	22.48	22.43	0.1300	0.1312	0.1297
10	QPSK	25	12	22.44	22.48	22.44	0.1300	0.1312	0.1300
10	QPSK	25	25	22.38	22.48	22.38	0.1282	0.1312	0.1282
10	QPSK	50	0	22.46	22.46	22.40	0.1306	0.1306	0.1288
10	16QAM	1	0	22.50	22.55	22.48	0.1318	0.1334	0.1312
10	16QAM	1	25	22.43	22.45	22.47	0.1297	0.1303	0.1309
10	16QAM	1	49	22.40	22.40	22.34	0.1288	0.1288	0.1271
10	16QAM	25	0	21.39	21.50	21.43	0.1021	0.1047	0.1030
10	16QAM	25	12	21.42	21.39	21.41	0.1028	0.1021	0.1026
10	16QAM	25	25	21.37	21.49	21.44	0.1016	0.1045	0.1033
10	16QAM	50	0	21.46	21.48	21.45	0.1038	0.1042	0.1035
10	64QAM	1	0	21.47	21.49	21.41	0.1040	0.1045	0.1026
10	64QAM	1	25	21.36	21.46	21.39	0.1014	0.1038	0.1021
10	64QAM	1	49	21.34	21.46	21.38	0.1009	0.1038	0.1019
10	64QAM	25	0	20.51	20.45	20.43	0.0834	0.0822	0.0818
10	64QAM	25	12	20.51	20.52	20.38	0.0834	0.0836	0.0809
10	64QAM	25	25	20.33	20.52	20.42	0.0800	0.0836	0.0817
10	64QAM	50	0	20.37	20.40	20.36	0.0807	0.0813	0.0805
10	256QAM	1	0	18.46	18.44	18.33	0.0520	0.0518	0.0505
10	256QAM	1	25	18.28	18.41	18.30	0.0499	0.0514	0.0501
10	256QAM	1	49	18.49	18.50	18.42	0.0524	0.0525	0.0515
10	256QAM	25	0	18.52	18.48	18.51	0.0527	0.0522	0.0526
10	256QAM	25	12	18.34	18.47	18.38	0.0506	0.0521	0.0511
10	256QAM	25	25	18.38	18.50	18.41	0.0511	0.0525	0.0514
10	256QAM	50	0	18.40	18.50	18.47	0.0513	0.0525	0.0521
Channel				39675	40620	41565	EIRP(W)		
Frequency (MHz)				2498.5	2593	2687.5	L	M	H
5	QPSK	1	0	23.47	23.47	23.43	0.1648	0.1648	0.1633
5	QPSK	1	12	23.33	23.42	23.42	0.1596	0.1629	0.1629
5	QPSK	1	24	23.42	23.41	23.44	0.1629	0.1626	0.1637
5	QPSK	12	0	22.47	22.53	22.48	0.1309	0.1327	0.1312
5	QPSK	12	7	22.44	22.48	22.34	0.1300	0.1312	0.1271
5	QPSK	12	13	22.34	22.45	22.37	0.1271	0.1303	0.1279
5	QPSK	25	0	22.40	22.51	22.40	0.1288	0.1321	0.1288
5	16QAM	1	0	22.41	22.56	22.42	0.1291	0.1337	0.1294
5	16QAM	1	12	22.47	22.52	22.45	0.1309	0.1324	0.1303
5	16QAM	1	24	22.34	22.48	22.43	0.1271	0.1312	0.1297
5	16QAM	12	0	21.43	21.45	21.42	0.1030	0.1035	0.1028
5	16QAM	12	7	21.31	21.41	21.41	0.1002	0.1026	0.1026
5	16QAM	12	13	21.37	21.50	21.39	0.1016	0.1047	0.1021
5	16QAM	25	0	21.47	21.53	21.45	0.1040	0.1054	0.1035
5	64QAM	1	0	21.48	21.48	21.37	0.1042	0.1042	0.1016
5	64QAM	1	12	21.36	21.38	21.41	0.1014	0.1019	0.1026
5	64QAM	1	24	21.30	21.43	21.37	0.1000	0.1030	0.1016
5	64QAM	12	0	20.50	20.48	20.41	0.0832	0.0828	0.0815



5	64QAM	12	7	20.46	20.48	20.36	0.0824	0.0828	0.0805
5	64QAM	12	13	20.35	20.45	20.34	0.0804	0.0822	0.0802
5	64QAM	25	0	20.40	20.40	20.36	0.0813	0.0813	0.0805
5	256QAM	1	0	18.47	18.38	18.36	0.0521	0.0511	0.0508
5	256QAM	1	12	18.28	18.41	18.33	0.0499	0.0514	0.0505
5	256QAM	1	24	18.48	18.39	18.39	0.0522	0.0512	0.0512
5	256QAM	12	0	18.48	18.45	18.45	0.0522	0.0519	0.0519
5	256QAM	12	7	18.35	18.47	18.40	0.0507	0.0521	0.0513
5	256QAM	12	13	18.42	18.48	18.42	0.0515	0.0522	0.0515
5	256QAM	25	0	18.38	18.48	18.39	0.0511	0.0522	0.0512

LTE CA_7C_ANT1:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.56	0.1062
M	QPSK	1	Max	1	0	21.49	0.1045
H	QPSK	1	Max	1	0	21.57	0.1064
L	16QAM	1	Max	1	0	20.80	0.0891
M	16QAM	1	Max	1	0	20.85	0.0902
H	16QAM	1	Max	1	0	20.91	0.0914
L	64QAM	1	Max	1	0	19.62	0.0679
M	64QAM	1	Max	1	0	19.60	0.0676
H	64QAM	1	Max	1	0	19.65	0.0684
L	256QAM	1	Max	1	0	16.52	0.0333
M	256QAM	1	Max	1	0	16.46	0.0328
H	256QAM	1	Max	1	0	16.53	0.0333
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.38	0.1019
H	16QAM	1	Max	1	0	20.63	0.0857
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.31	0.1002
H	16QAM	1	Max	1	0	20.71	0.0873
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.35	0.1012
H	16QAM	1	Max	1	0	20.73	0.0877
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.43	0.1030
H	16QAM	1	Max	1	0	20.69	0.0869
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured	EIRP(W)



		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.36	0.1014
H	16QAM	1	Max	1	0	20.66	0.0863
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.35	0.1012
H	16QAM	1	Max	1	0	20.71	0.0873

LTE CA_38C_ANT1:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.51	0.1050
M	QPSK	1	Max	1	0	21.57	0.1064
H	QPSK	1	Max	1	0	21.58	0.1067
L	16QAM	1	Max	1	0	20.74	0.0879
M	16QAM	1	Max	1	0	20.87	0.0906
H	16QAM	1	Max	1	0	20.88	0.0908
L	64QAM	1	Max	1	0	19.58	0.0673
M	64QAM	1	Max	1	0	19.50	0.0661
H	64QAM	1	Max	1	0	19.64	0.0682
L	256QAM	1	Max	1	0	16.48	0.0330
M	256QAM	1	Max	1	0	16.58	0.0337
H	256QAM	1	Max	1	0	16.42	0.0325
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
H	QPSK	1	Max	1	0	21.42	0.1028
H	16QAM	1	Max	1	0	20.63	0.0857

LTE CA_41C_ANT1:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.59	0.1069
M	QPSK	1	Max	1	0	21.46	0.1038
H	QPSK	1	Max	1	0	21.34	0.1009
L	16QAM	1	Max	1	0	20.76	0.0883
M	16QAM	1	Max	1	0	20.79	0.0889
H	16QAM	1	Max	1	0	20.91	0.0914
L	64QAM	1	Max	1	0	19.65	0.0684
M	64QAM	1	Max	1	0	19.53	0.0665
H	64QAM	1	Max	1	0	19.54	0.0667
L	256QAM	1	Max	1	0	16.31	0.0317
M	256QAM	1	Max	1	0	16.25	0.0313
H	256QAM	1	Max	1	0	16.37	0.0321
Combination 20MHz+15MHz (100RB+75RB)							



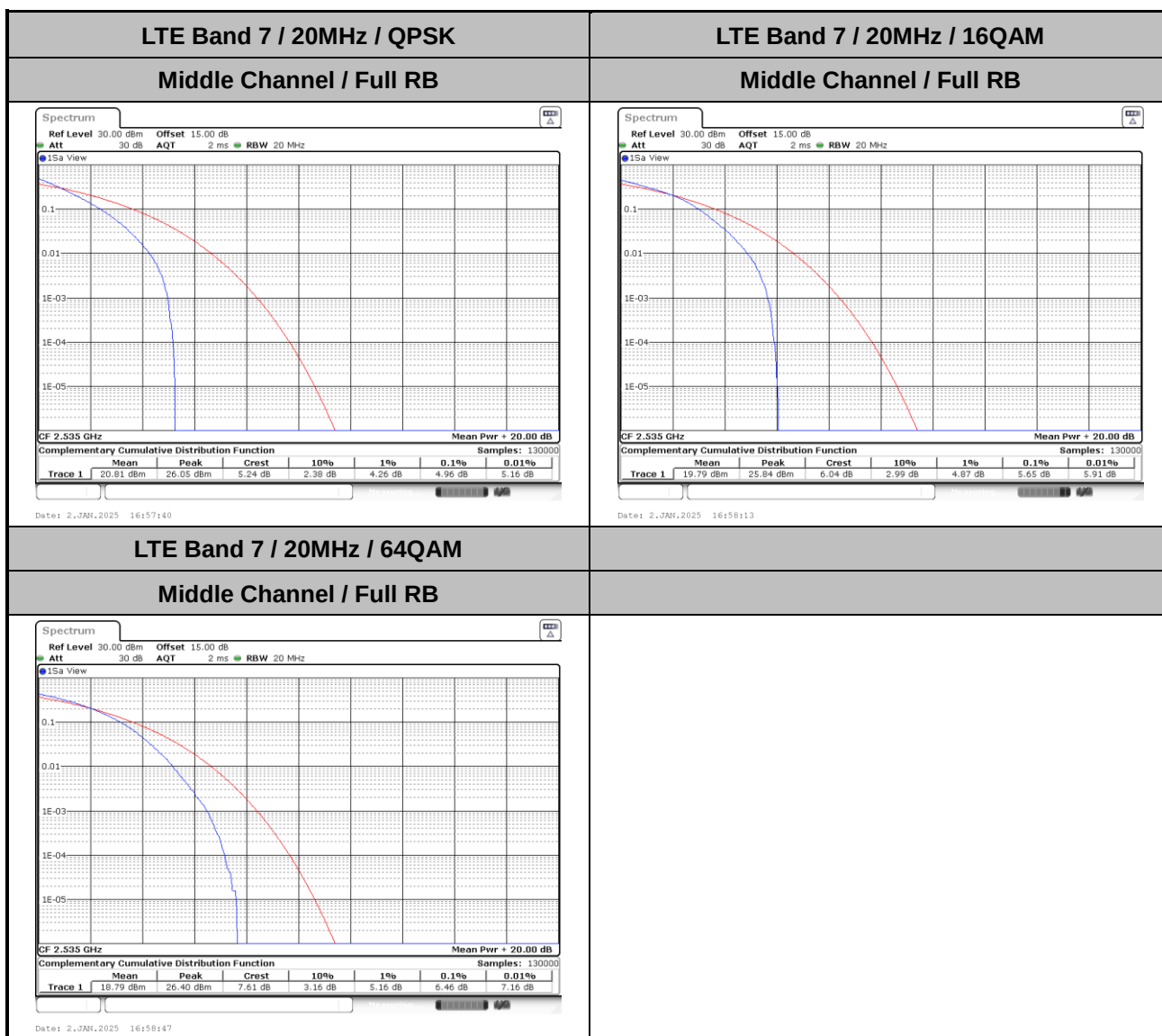
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.37	0.1016
H	16QAM	1	Max	1	0	20.65	0.0861
Combination 15MHz+20MHz (75RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.36	0.1014
H	16QAM	1	Max	1	0	20.64	0.0859
Combination 15MHz+15MHz (75RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.40	0.1023
H	16QAM	1	Max	1	0	20.59	0.0849
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.26	0.0991
H	16QAM	1	Max	1	0	20.61	0.0853
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.31	0.1002
H	16QAM	1	Max	1	0	20.60	0.0851
Combination 15MHz+10MHz (75RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.28	0.0995
H	16QAM	1	Max	1	0	20.61	0.0853
Combination 10MHz+15MHz (50RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.33	0.1007
H	16QAM	1	Max	1	0	20.64	0.0859
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.34	0.1009
H	16QAM	1	Max	1	0	20.57	0.0845
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	21.28	0.0995
H	16QAM	1	Max	1	0	20.56	0.0843



LTE Band 7 (Main PA)

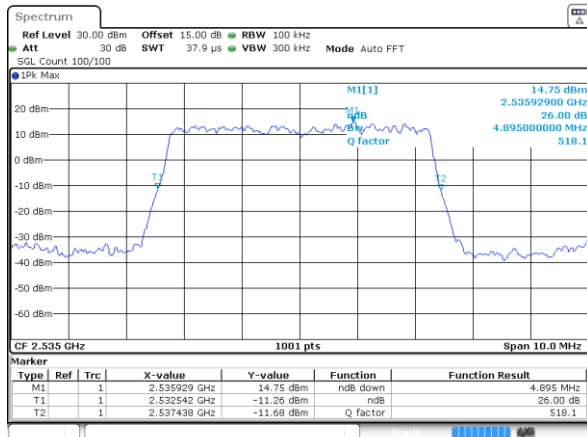
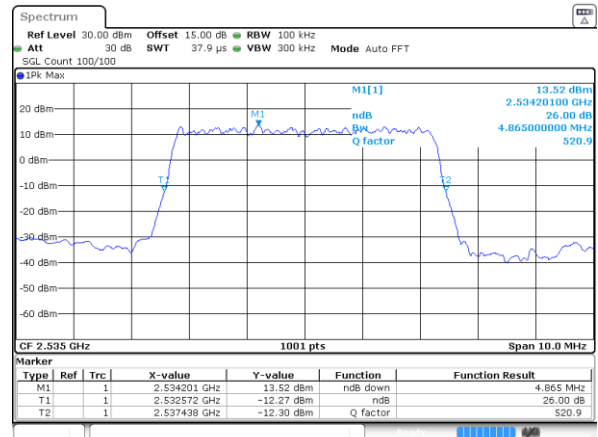
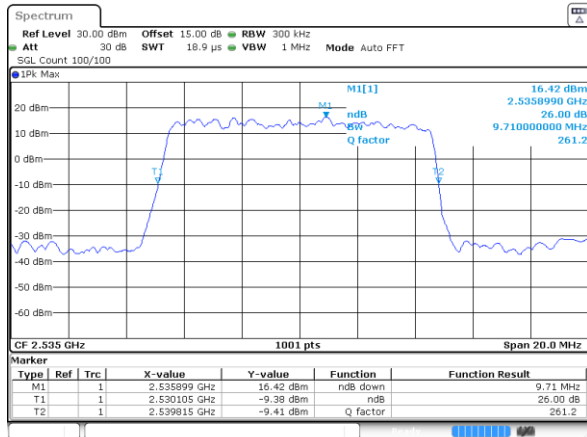
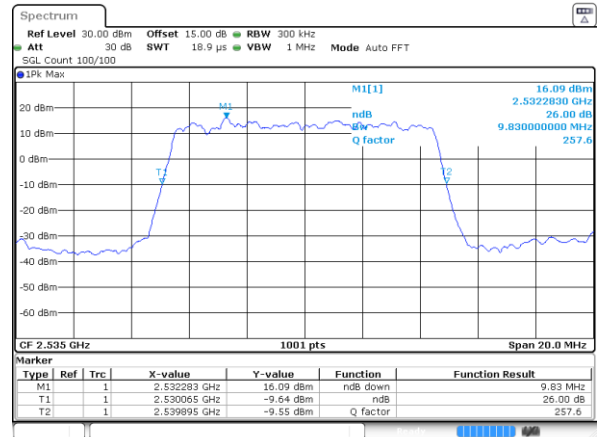
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.65	6.46	PASS



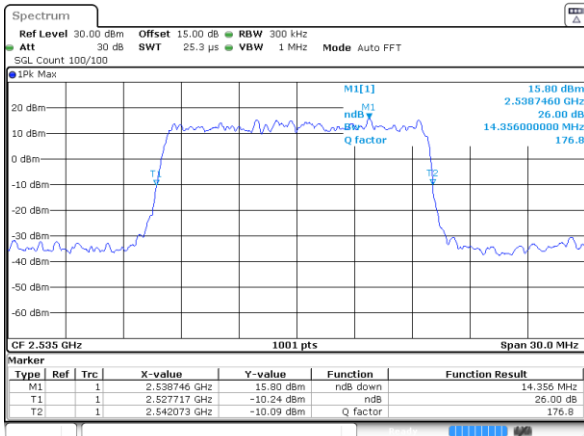
**26dB Bandwidth**

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	-	-	-	-	4.90	4.87	9.71	9.83	14.36	14.30	18.86	18.86

LTE Band 7**Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**

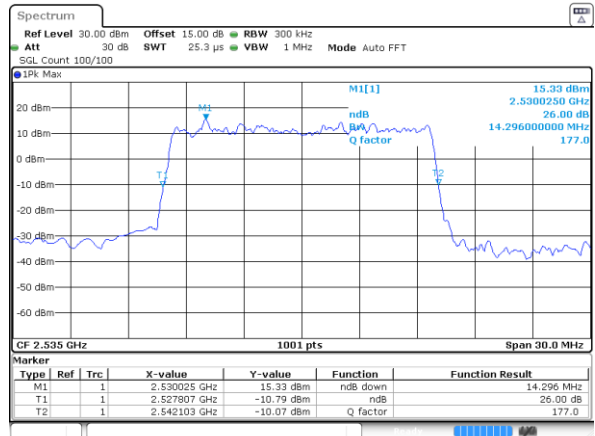


Middle Channel / 15MHz / QPSK



Date: 28 DEC 2024 17:44:00

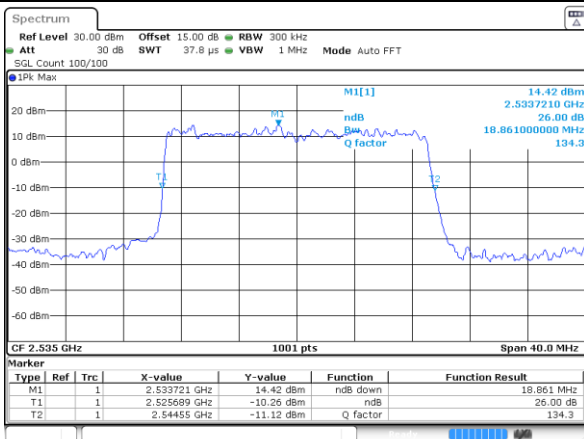
Middle Channel / 15MHz / 16QAM



Date: 28 DEC 2024 17:44:39

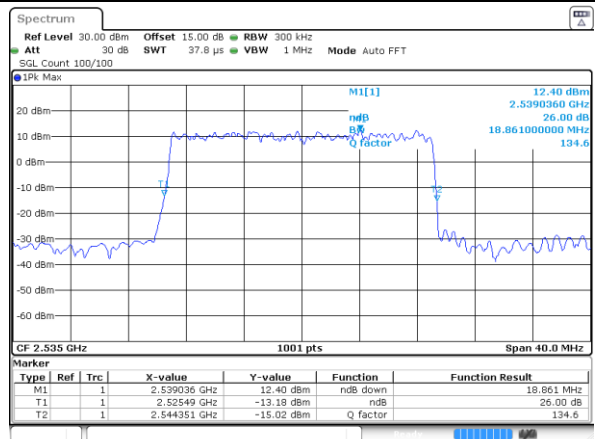
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 28 DEC 2024 17:58:20

Middle Channel / 20MHz / 16QAM



Date: 28 DEC 2024 17:59:00

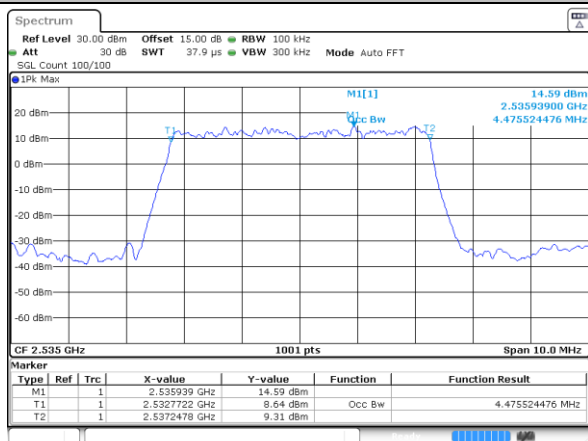


Occupied Bandwidth

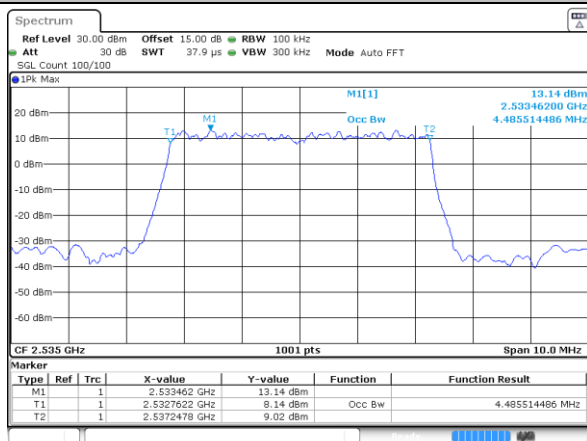
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.49	9.03	9.03	13.46	13.49	17.94	17.86

LTE Band 7

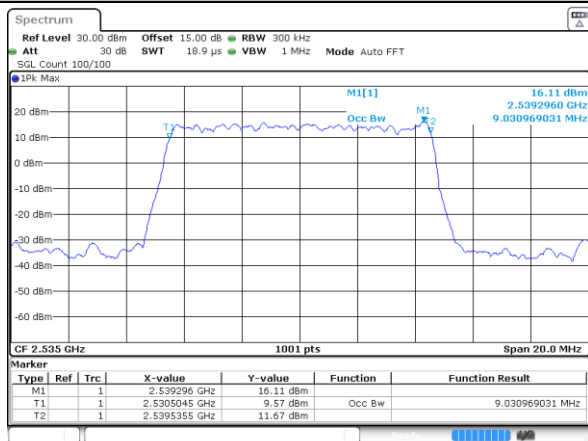
Middle Channel / 5MHz / QPSK



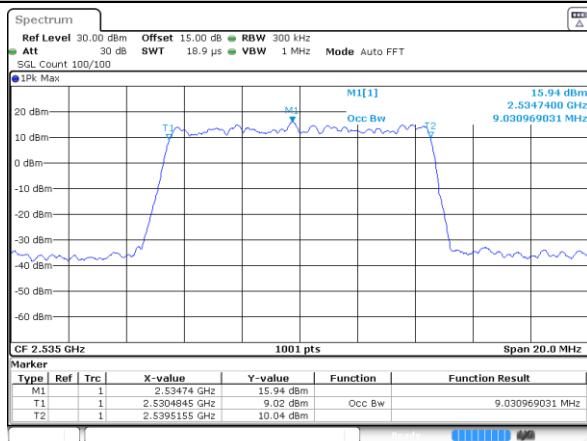
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

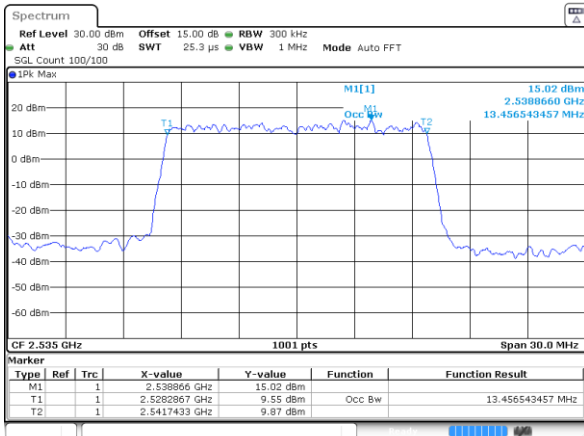


Middle Channel / 10MHz / 16QAM



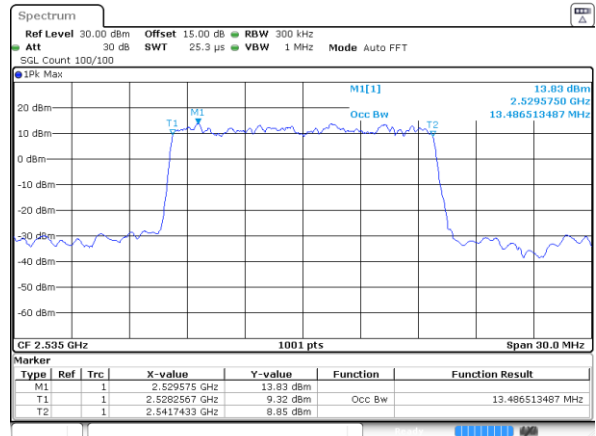


Middle Channel / 15MHz / QPSK



Date: 28 DEC 2024 17:43:46

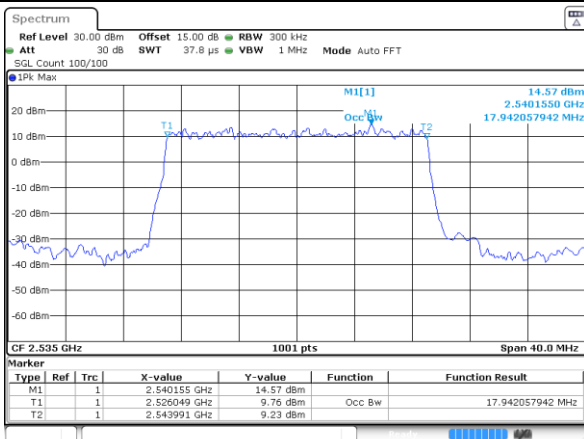
Middle Channel / 15MHz / 16QAM



Date: 28 DEC 2024 17:44:25

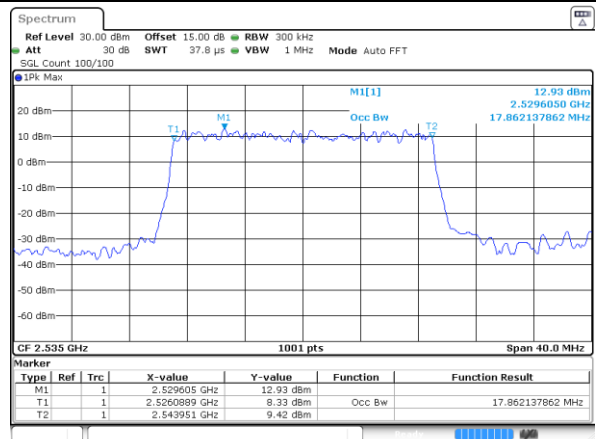
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 28 DEC 2024 17:58:06

Middle Channel / 20MHz / 16QAM



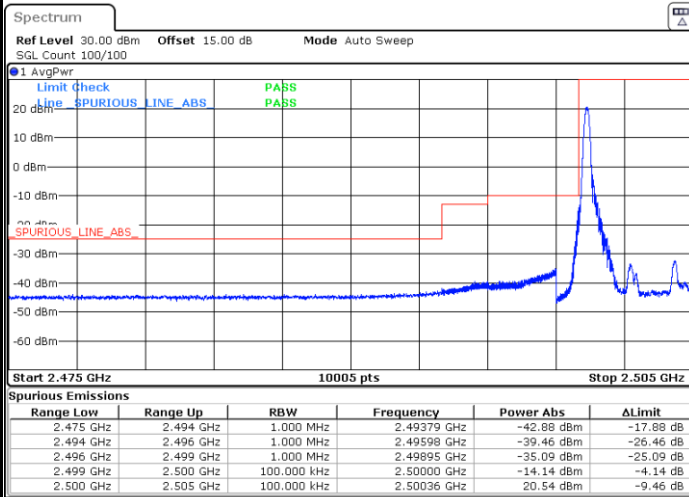
Date: 28 DEC 2024 17:58:46



Conducted Band Edge

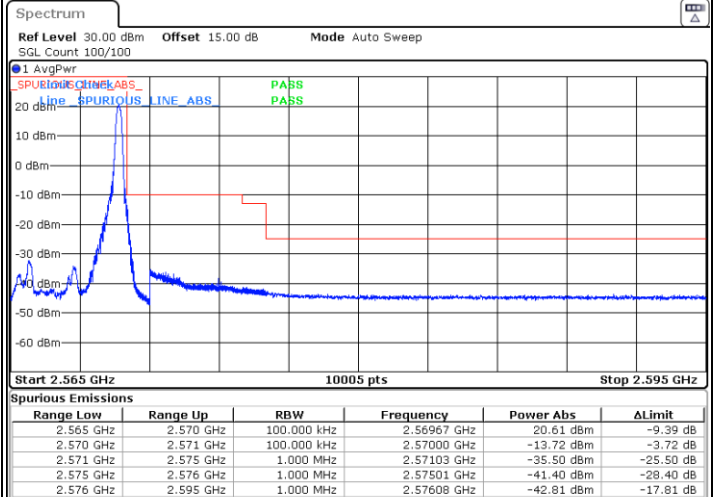
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



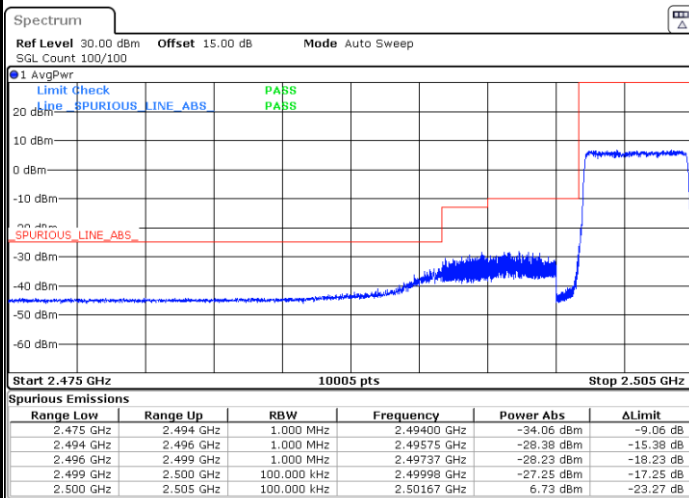
Date: 28 DEC 2024 17:08:39

Highest Band Edge / 1 RB



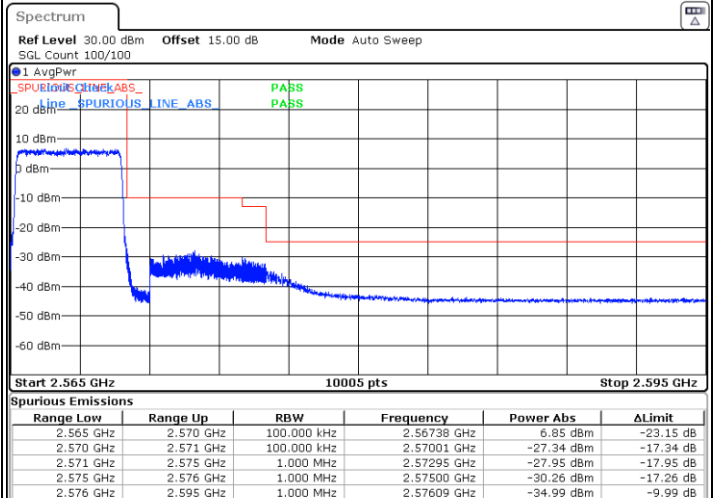
Date: 28 DEC 2024 17:16:40

Lowest Band Edge / Full RB



Date: 28 DEC 2024 17:10:57

Highest Band Edge / Full RB

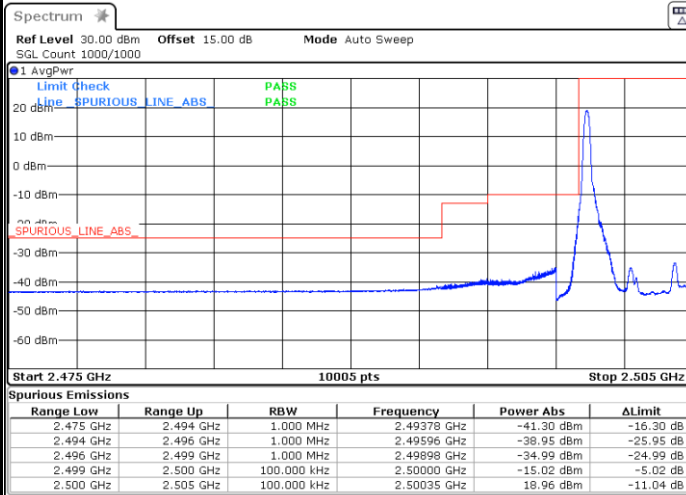


Date: 28 DEC 2024 17:18:57



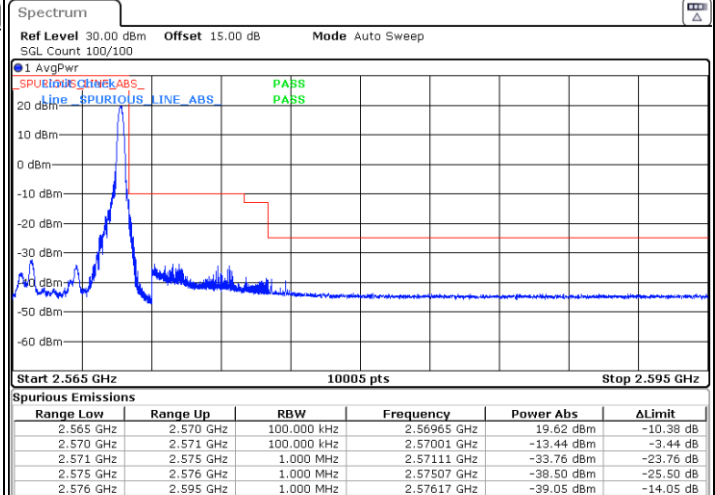
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



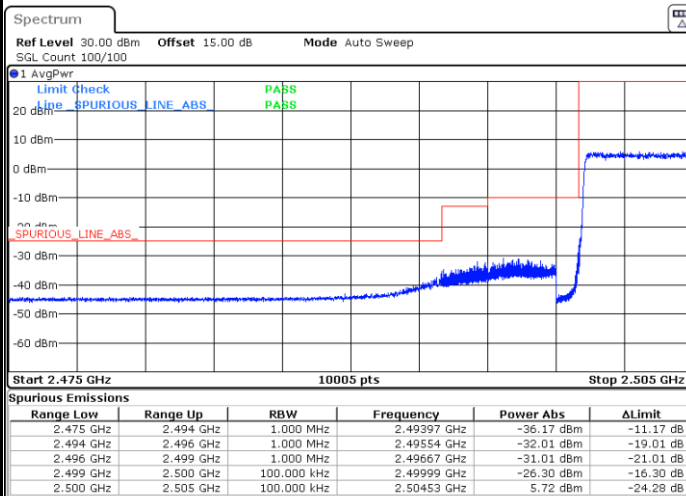
Date: 2 JAN. 2025 17:33:53

Highest Band Edge / 1 RB



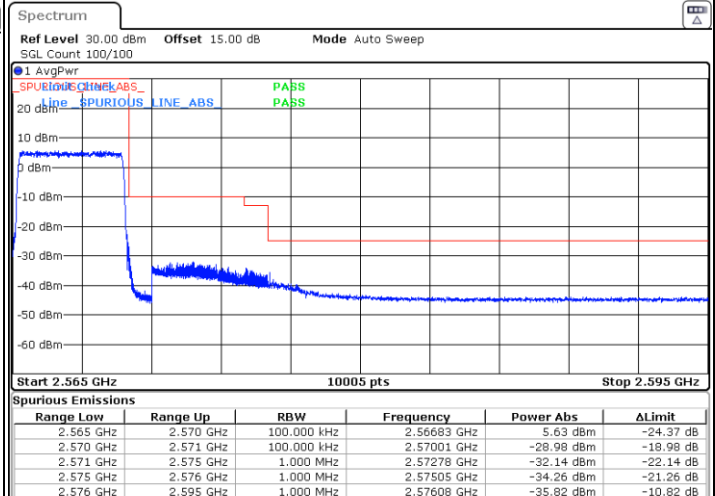
Date: 28 DEC. 2024 17:17:26

Lowest Band Edge / Full RB



Date: 28 DEC. 2024 17:11:43

Highest Band Edge / Full RB

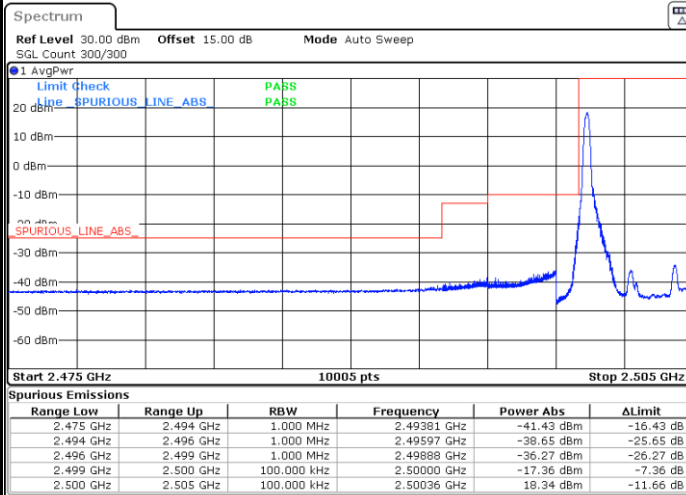


Date: 28 DEC. 2024 17:19:43



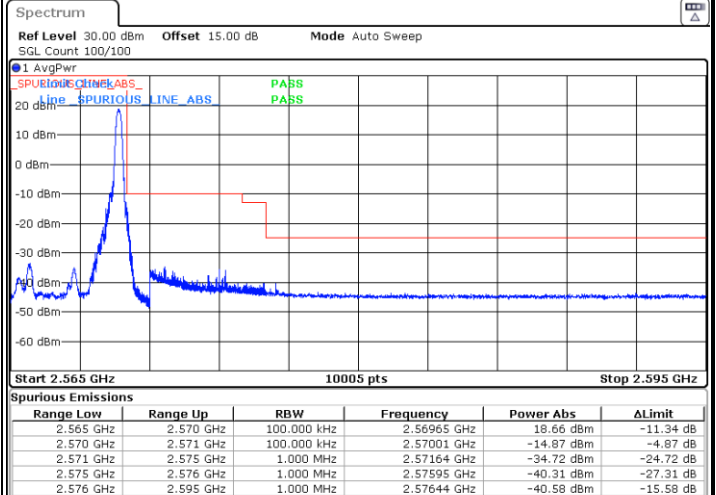
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



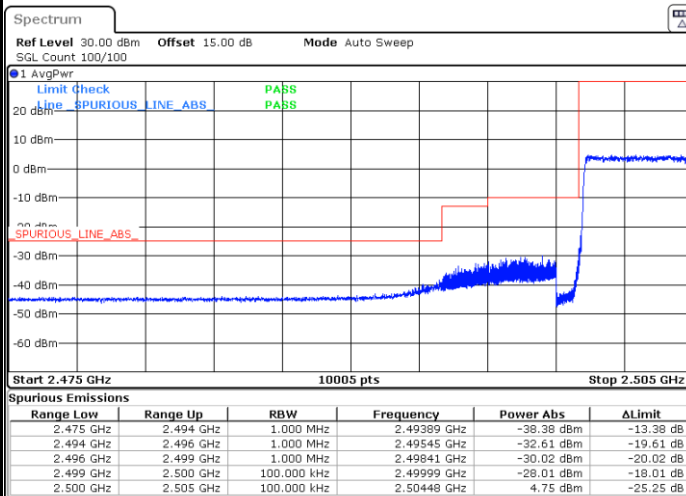
Date: 2 JAN. 2025 17:34:39

Highest Band Edge / 1 RB



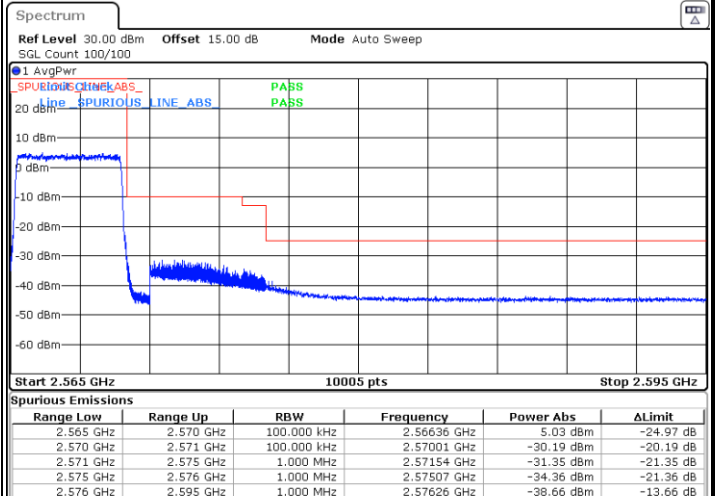
Date: 28 DEC. 2024 17:18:11

Lowest Band Edge / Full RB



Date: 28 DEC. 2024 17:12:28

Highest Band Edge / Full RB

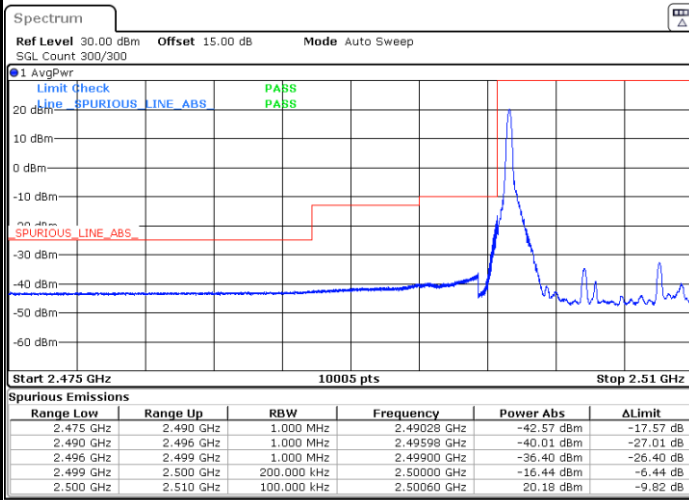


Date: 28 DEC. 2024 17:20:28

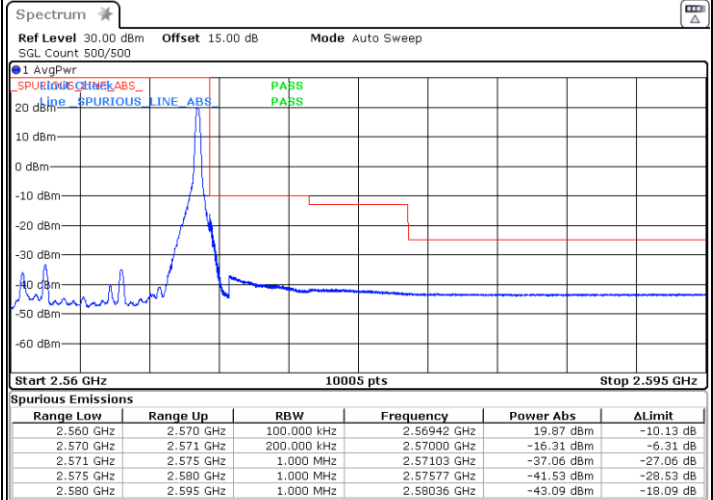


LTE Band 7 / 10MHz / QPSK

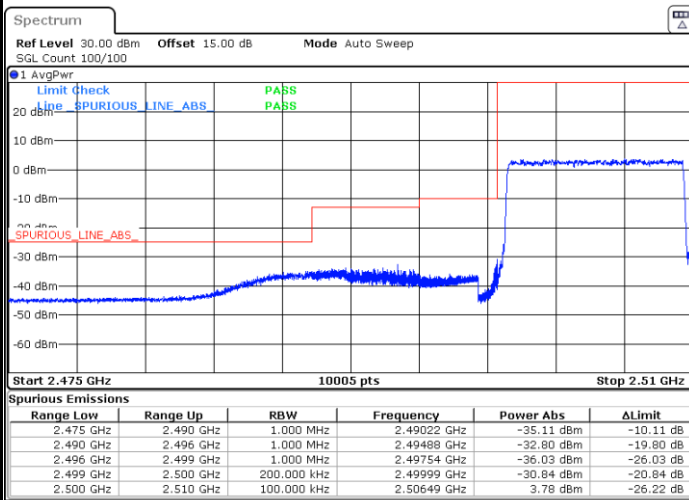
Lowest Band Edge / 1 RB



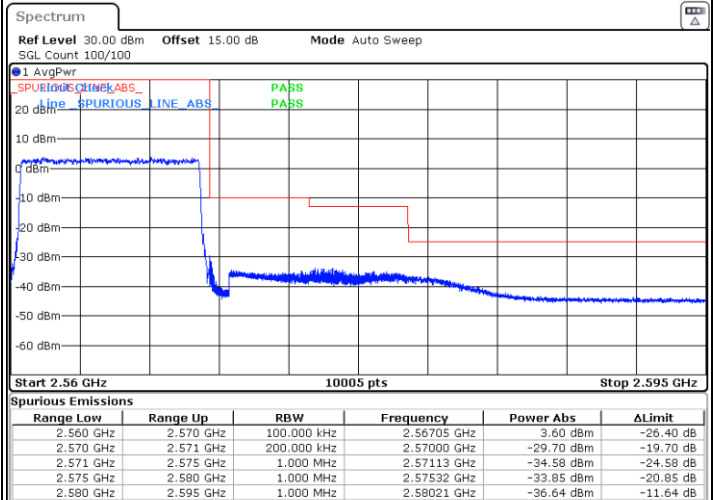
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



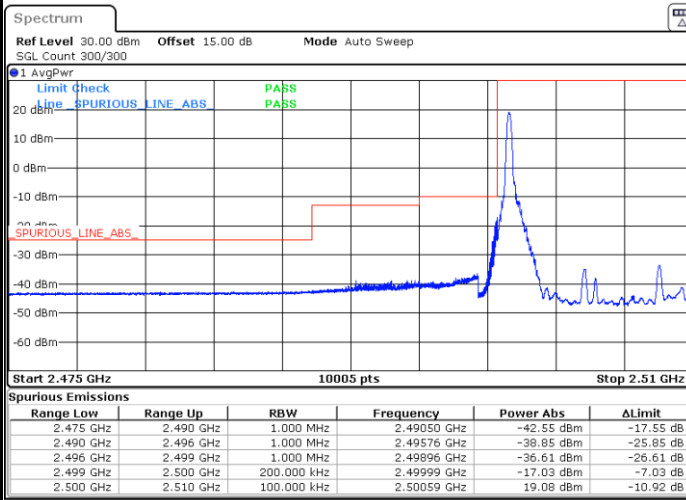
Highest Band Edge / Full RB





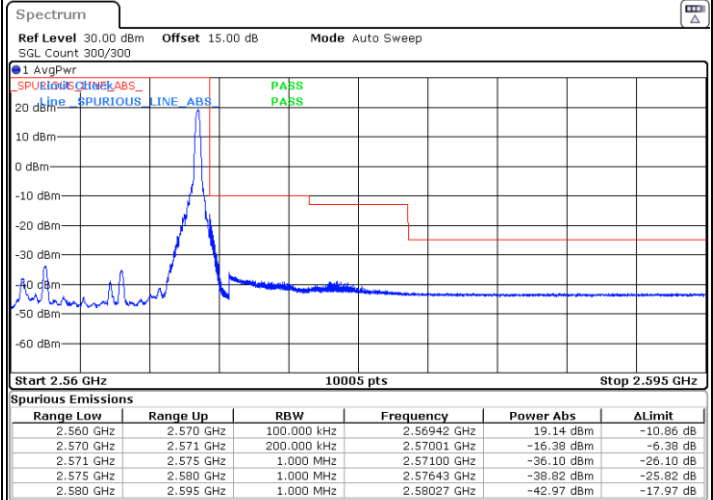
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



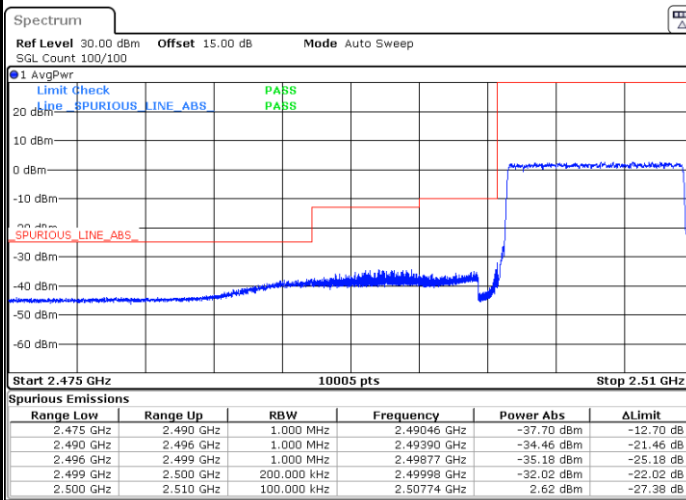
Date: 2.JAN.2025 17:24:20

Highest Band Edge / 1 RB



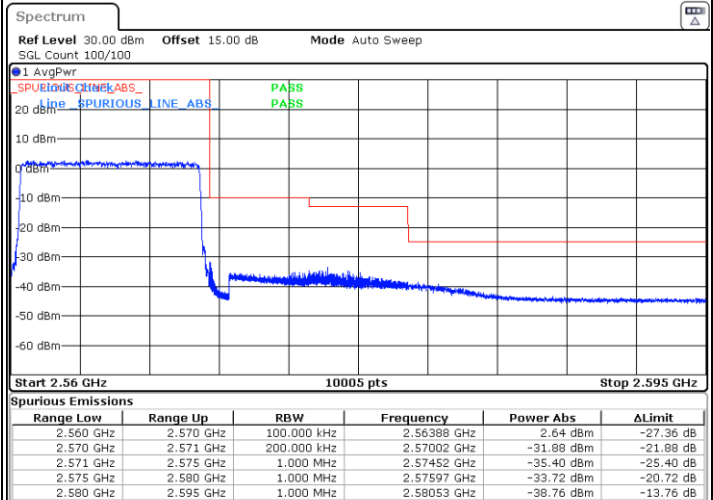
Date: 2.JAN.2025 17:25:08

Lowest Band Edge / Full RB



Date: 28 DEC.2024 17:26:04

Highest Band Edge / Full RB

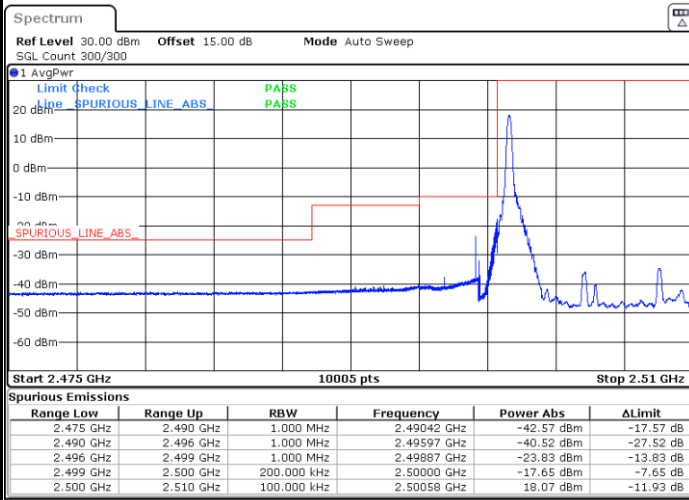


Date: 28 DEC.2024 17:34:04



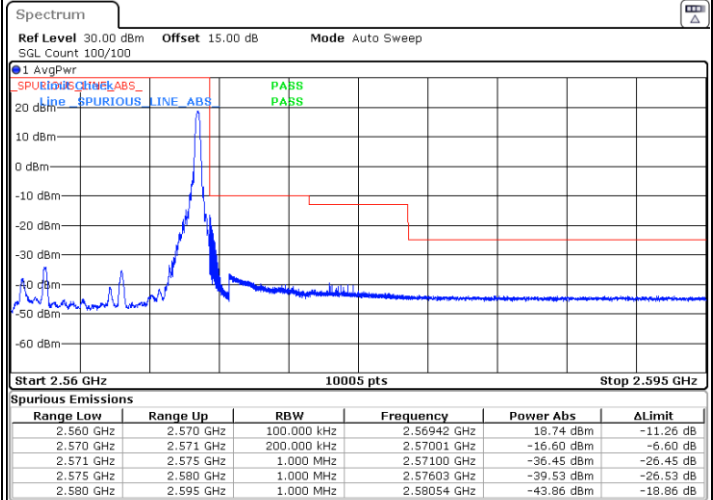
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1RB



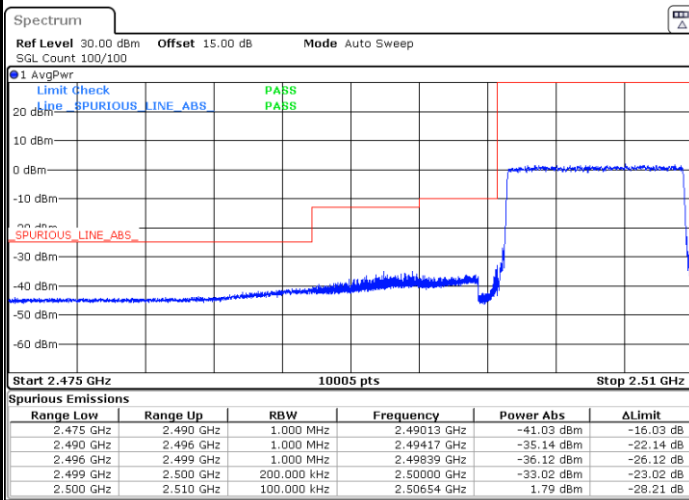
Date: 2.JAN.2025 17:27:27

Highest Band Edge / 1 RB



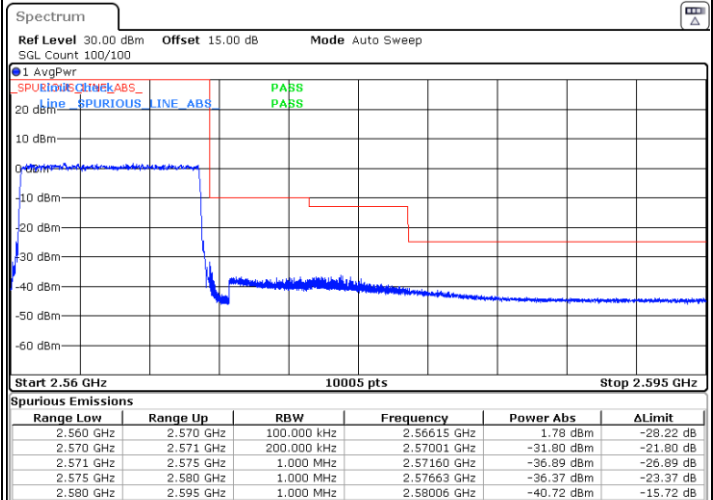
Date: 28 DEC.2024 17:32:33

Lowest Band Edge / Full RB



Date: 28 DEC.2024 17:26:50

Highest Band Edge / Full RB

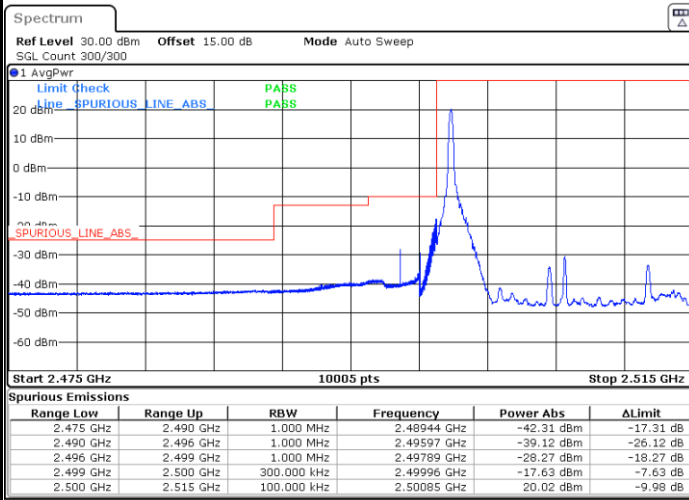


Date: 28 DEC.2024 17:34:50

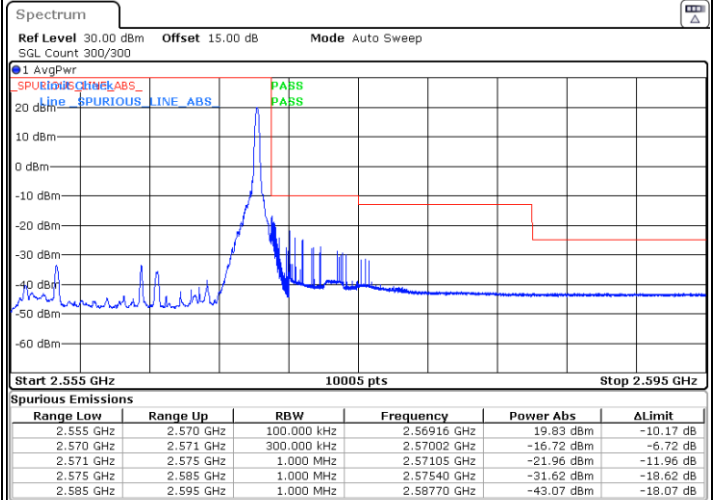


LTE Band 7 / 15MHz / QPSK

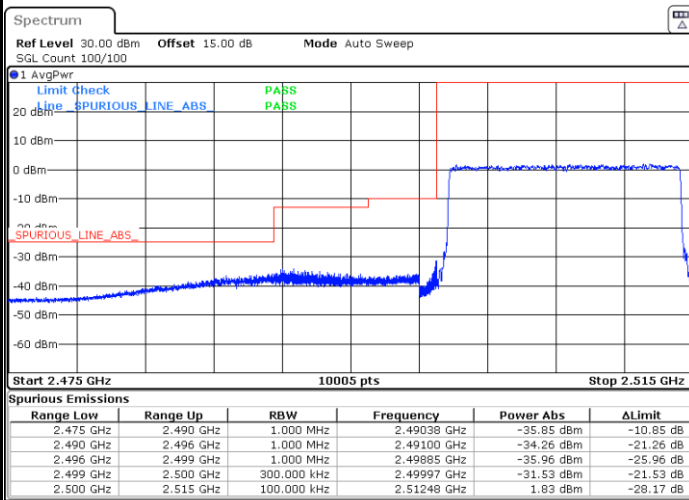
Lowest Band Edge / 1 RB



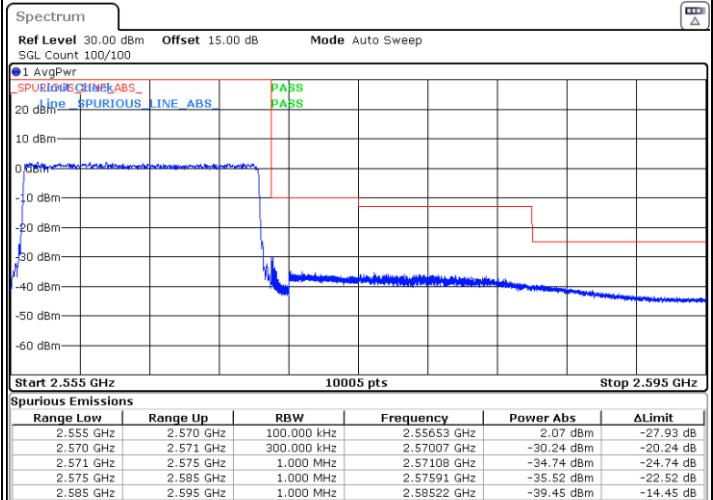
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



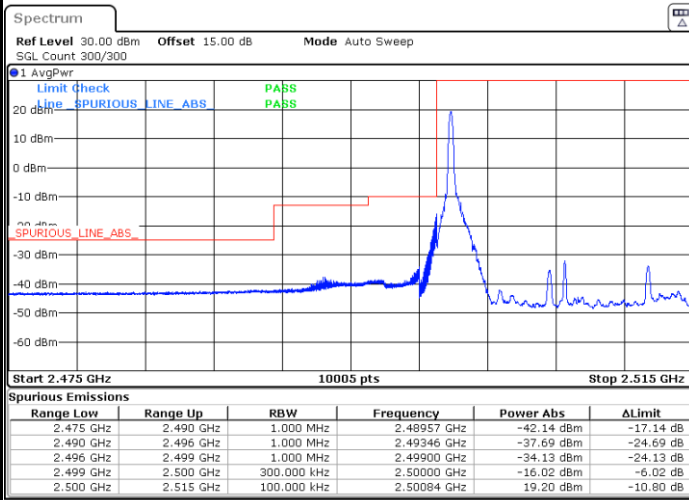
Highest Band Edge / Full RB



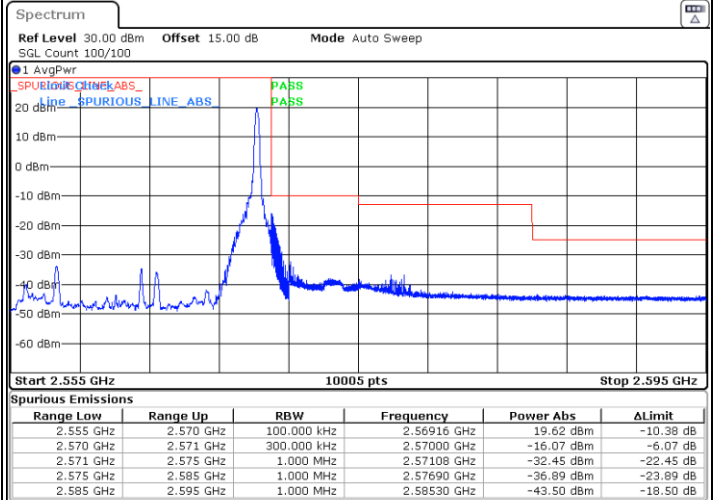


LTE Band 7 / 15MHz / 16QAM

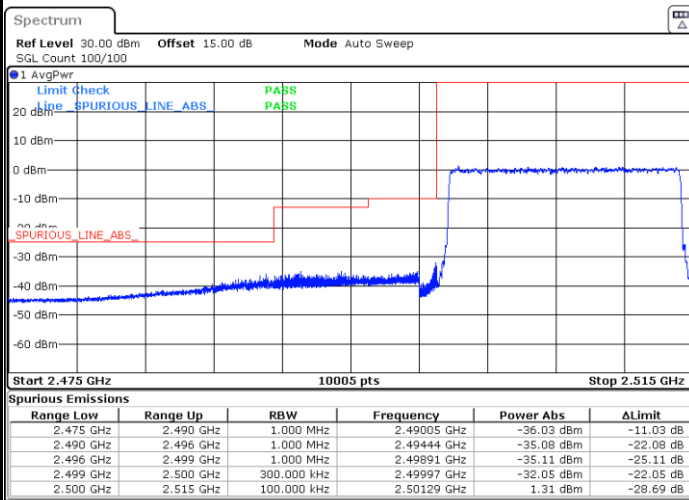
Lowest Band Edge / 1RB



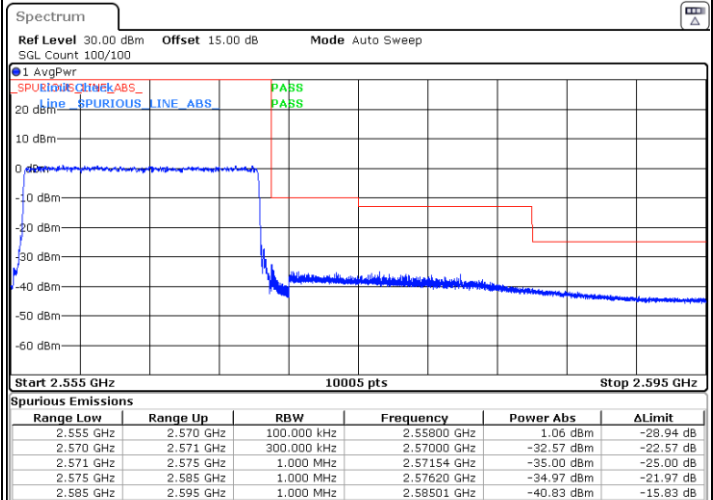
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



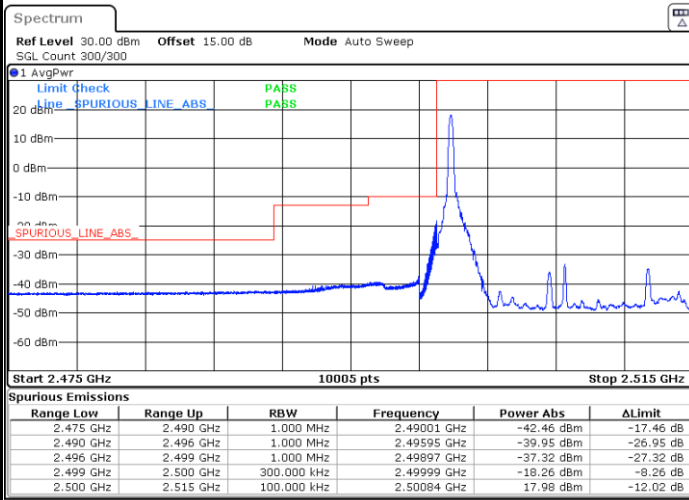
Highest Band Edge / Full RB





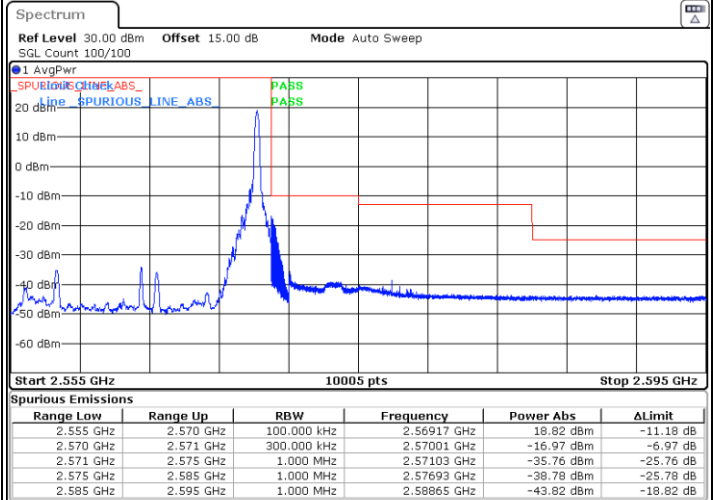
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB



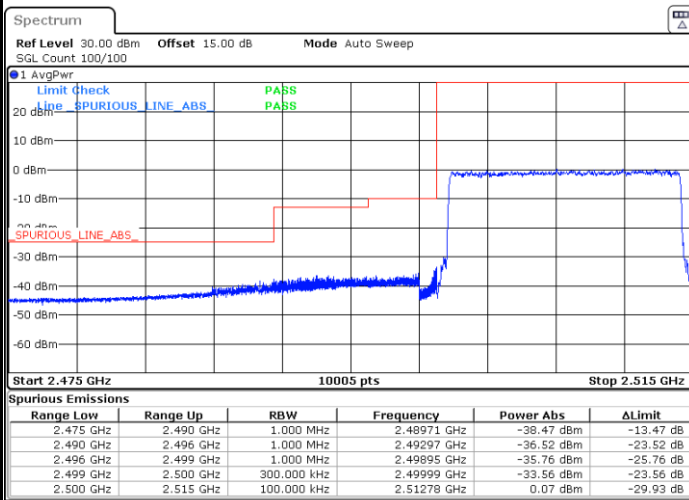
Date: 2.JAN.2025 17:12:42

Highest Band Edge / 1 RB



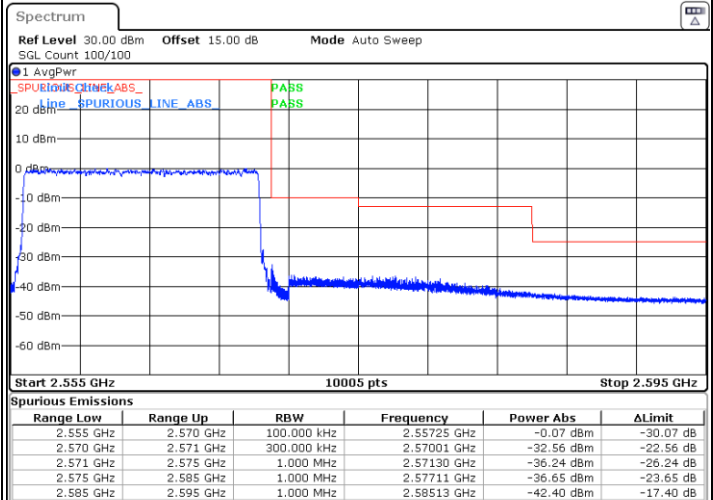
Date: 28 DEC.2024 17:46:54

Lowest Band Edge / Full RB



Date: 28 DEC.2024 17:41:12

Highest Band Edge / Full RB

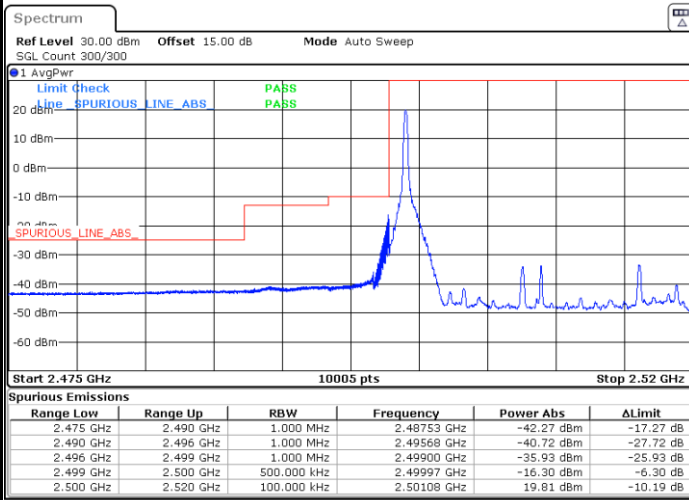


Date: 28 DEC.2024 17:49:11

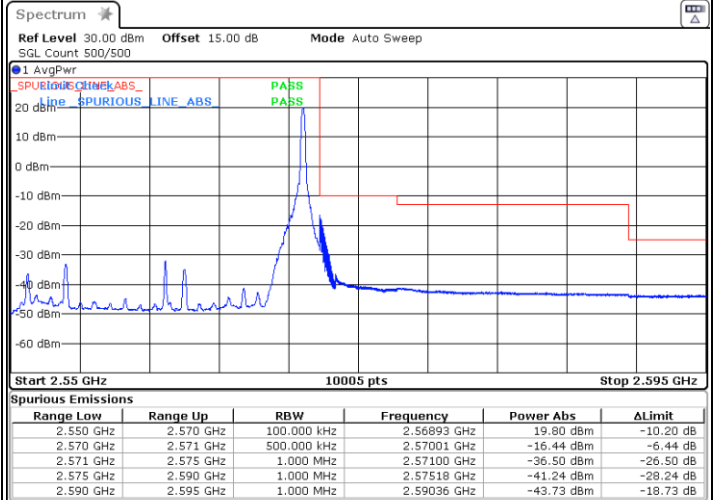


LTE Band 7 / 20MHz / QPSK

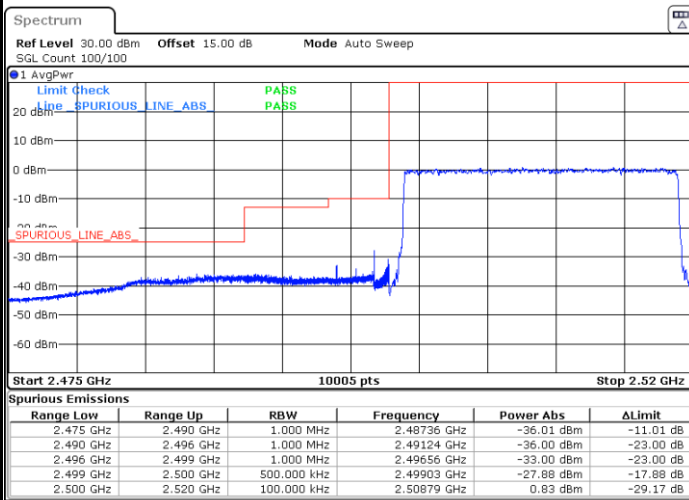
Lowest Band Edge / 1 RB



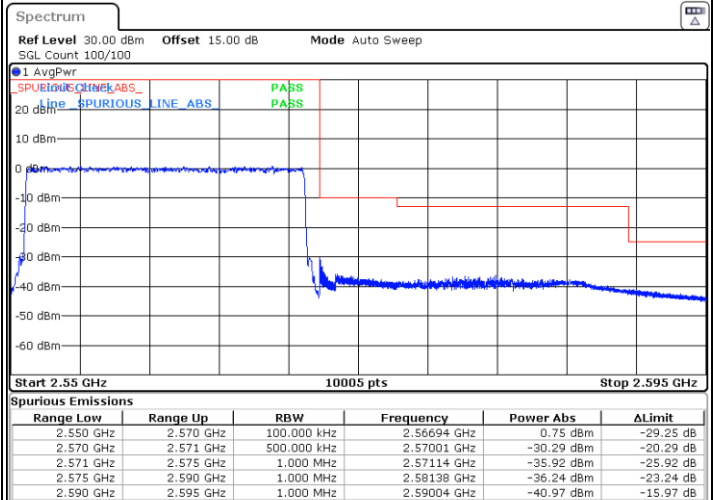
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



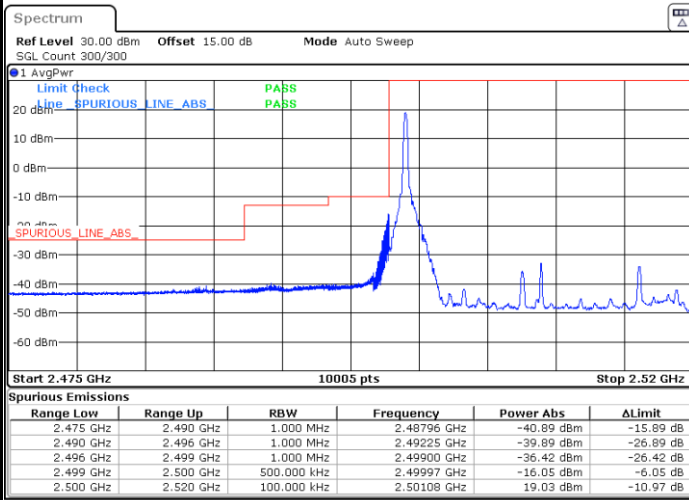
Highest Band Edge / Full RB



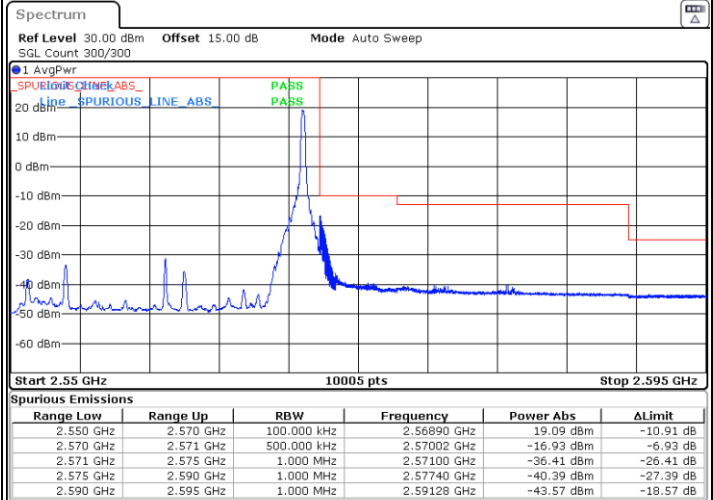


LTE Band 7 / 20MHz / 16QAM

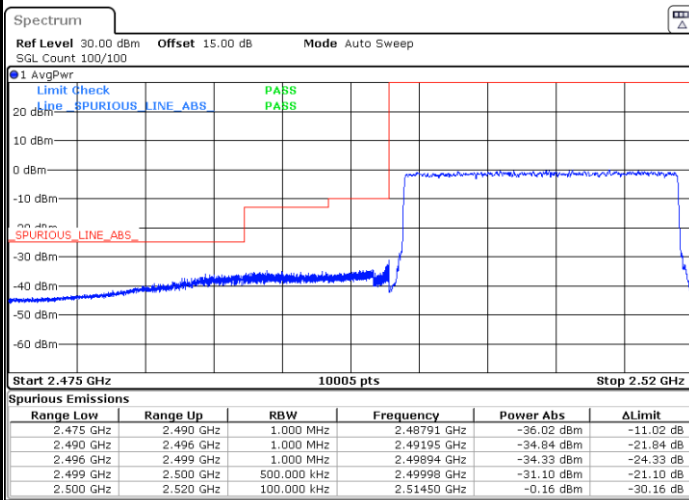
Lowest Band Edge / 1RB



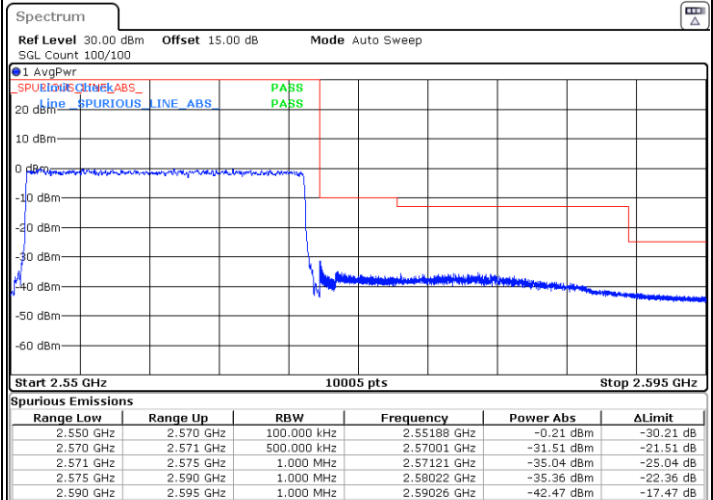
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



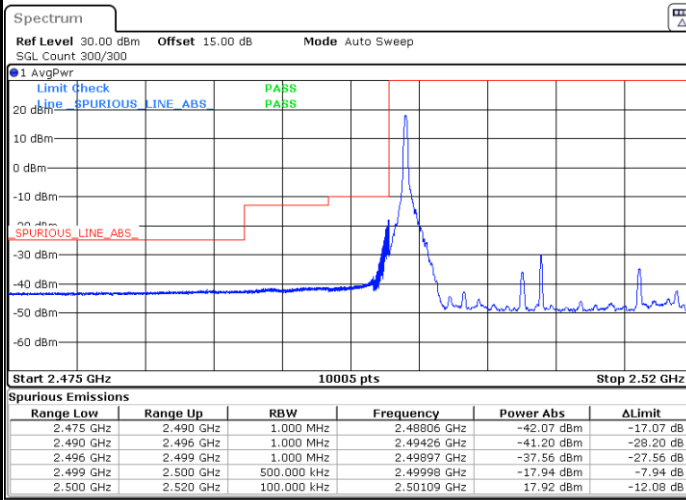
Highest Band Edge / Full RB



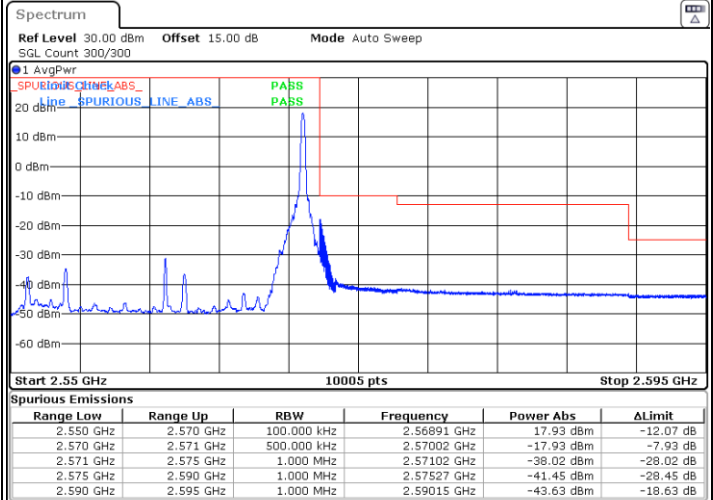


LTE Band 7 / 20MHz / 64QAM

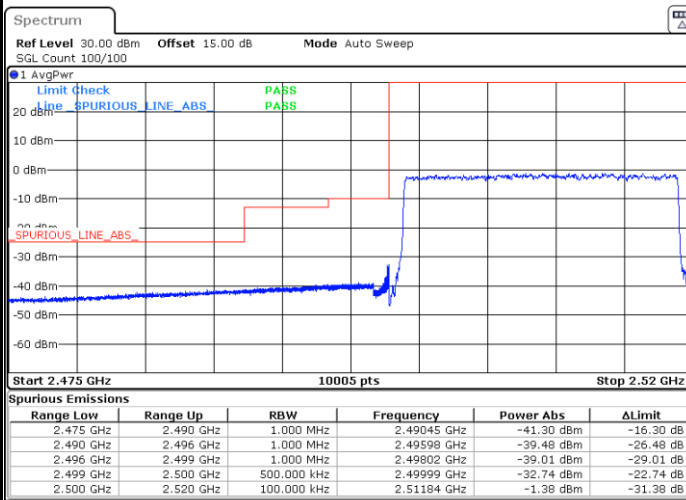
Lowest Band Edge / 1RB



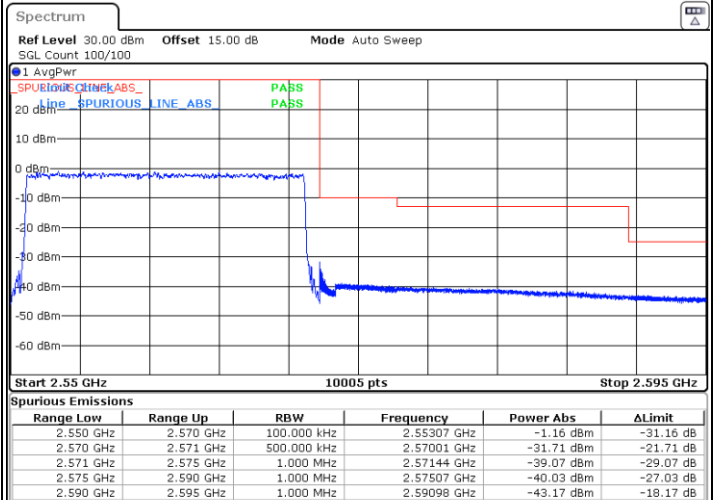
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

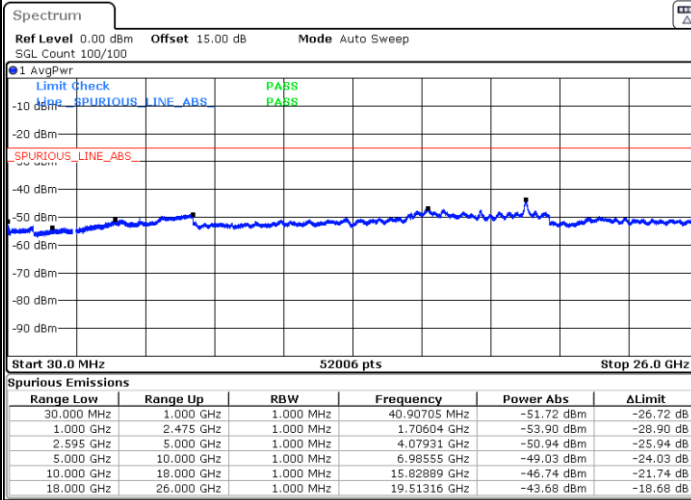




Conducted Spurious Emission

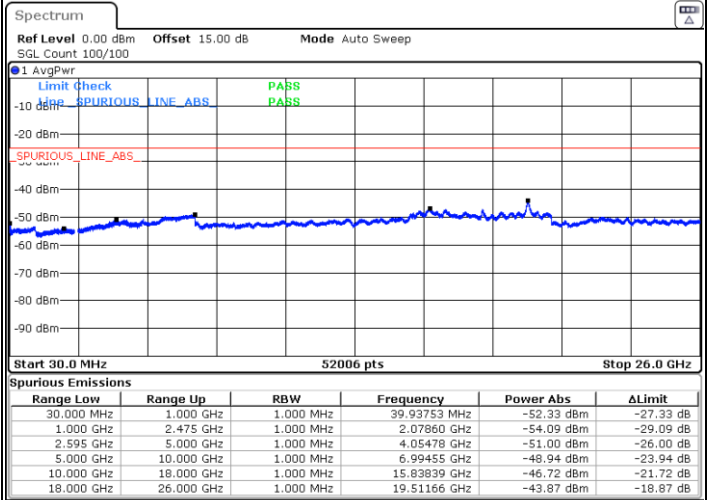
LTE Band 7 / 5MHz

Lowest Channel / QPSK



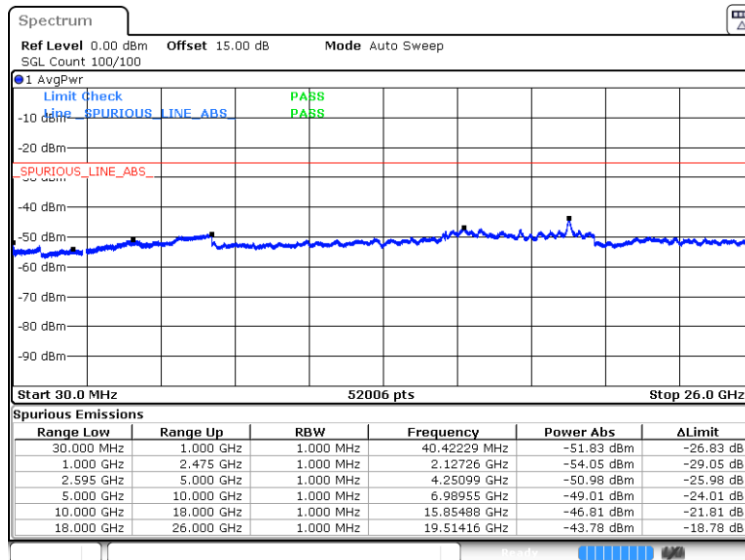
Date: 28 DEC 2024 17:13:33

Middle Channel / QPSK



Date: 28 DEC 2024 17:14:37

Highest Channel / QPSK

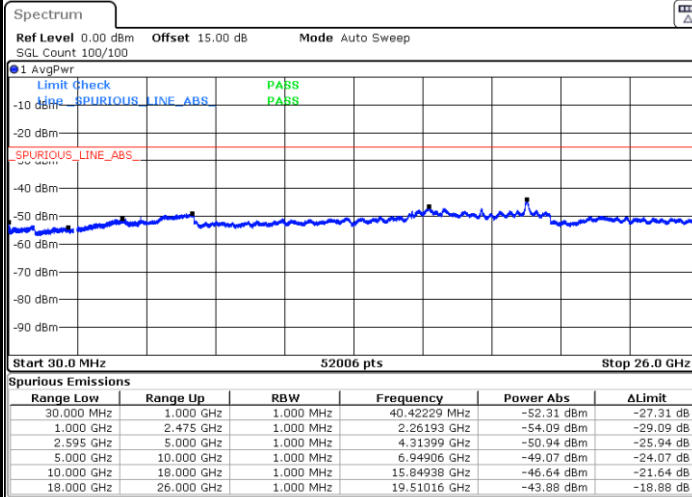


Date: 28 DEC 2024 17:21:33



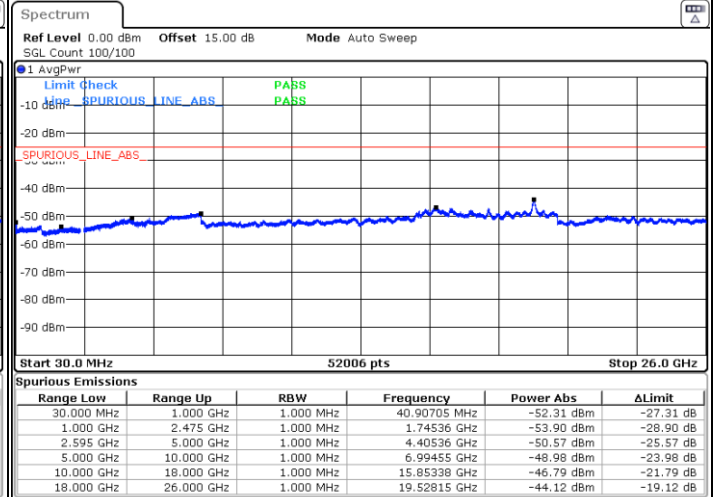
LTE Band 7 / 10MHz

Lowest Channel / QPSK



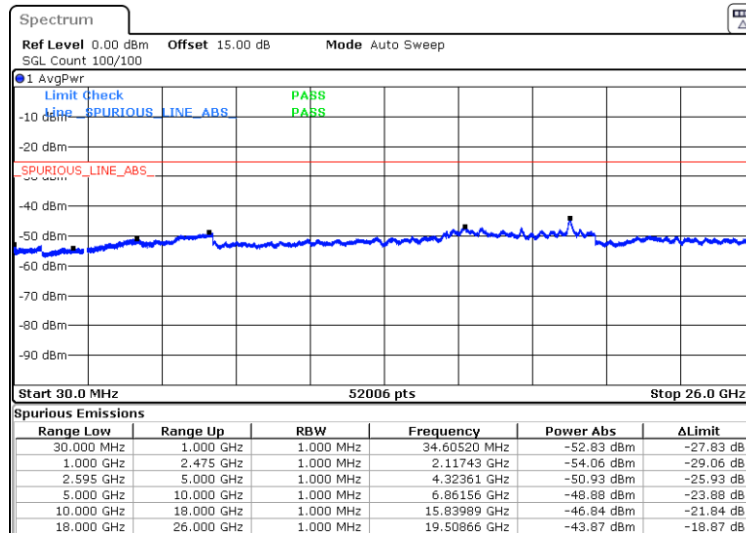
Date: 28 DEC 2024 17:27:55

Middle Channel / QPSK



Date: 28 DEC 2024 17:28:58

Highest Channel / QPSK

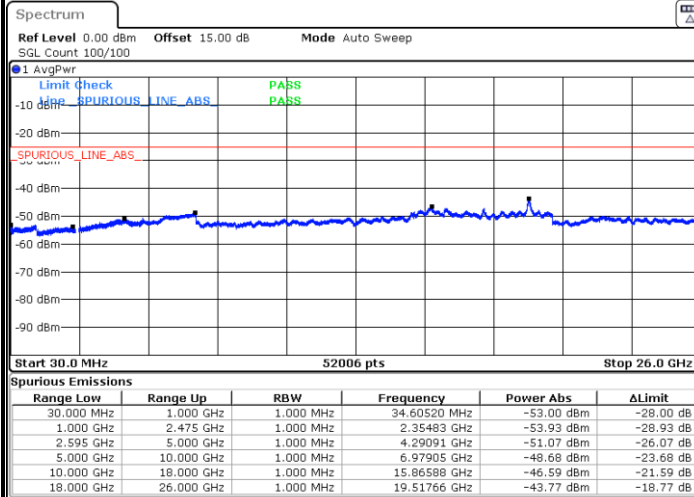


Date: 28 DEC 2024 17:35:55



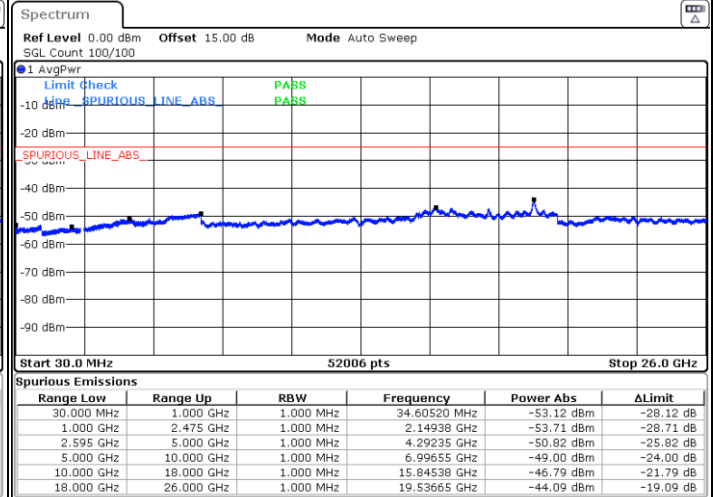
LTE Band 7 / 15MHz

Lowest Channel / QPSK



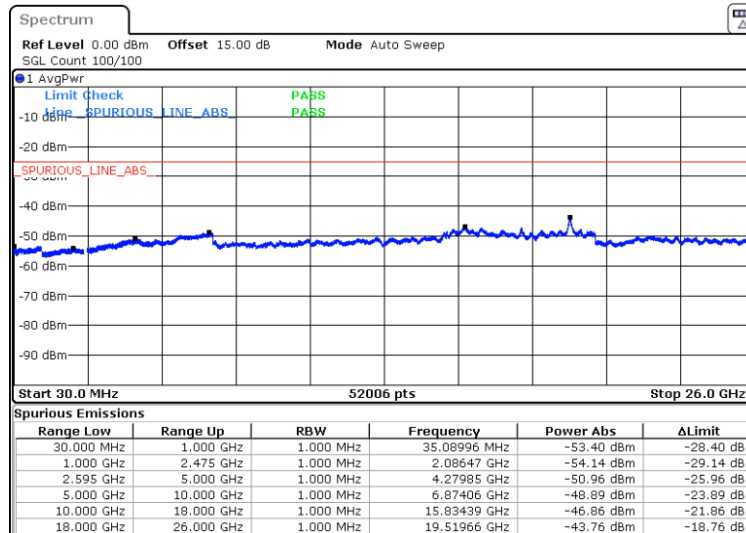
Date: 28 DEC 2024 17:42:16

Middle Channel / QPSK



Date: 28 DEC 2024 17:43:20

Highest Channel / QPSK

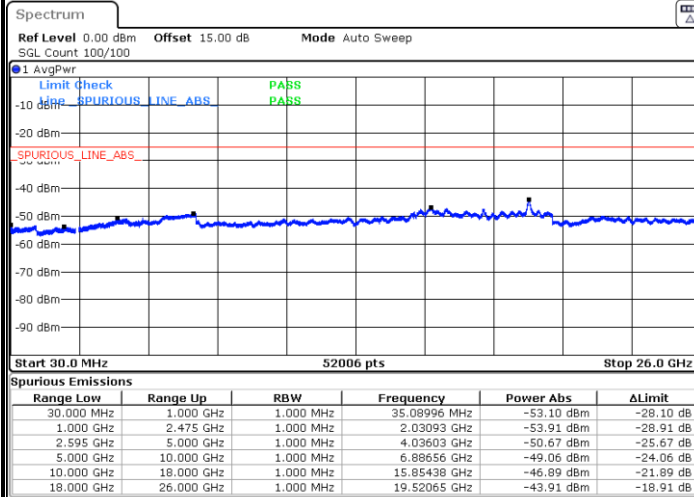


Date: 28 DEC 2024 17:50:16



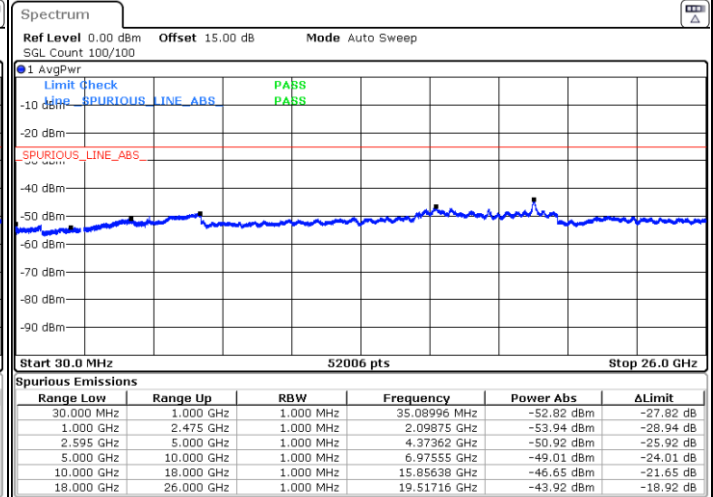
LTE Band 7 / 20MHz

Lowest Channel / QPSK



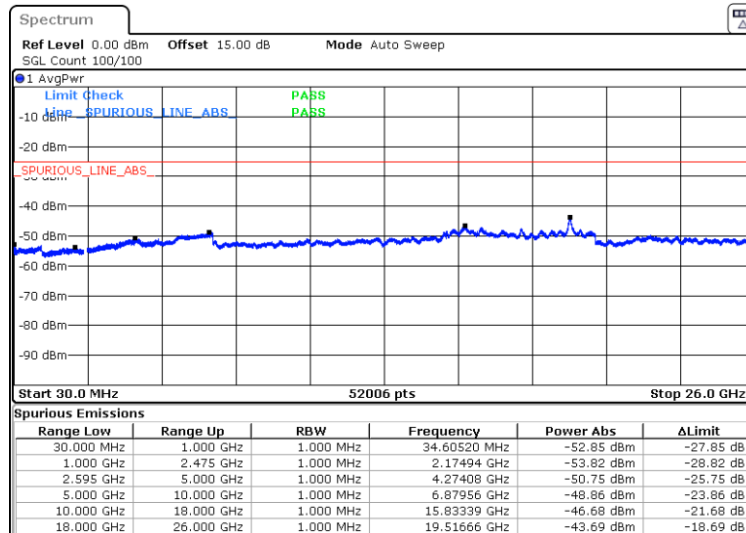
Date: 28 DEC 2024 17:56:37

Middle Channel / QPSK



Date: 28 DEC 2024 17:57:40

Highest Channel / QPSK



Date: 28 DEC 2024 18:05:56