



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 2311DRK48G
FCC ID : 2AFZZK48G
STANDARD : 47 CFR Part 2, 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 21, 2023 ~ Oct. 11, 2023

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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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)	ERP < 7 Watt	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 27.60 dB at 10140.00 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

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	POCO
Model Name	2311DRK48G
FCC ID	2AFZZK48G
IMEI Code	Conducted: 863478060045301/863478060046319 Radiation: 863478060040627/863478060040635
HW Version	1351N11A
SW Version	Xiaomi HyperOS 1.0
EUT Stage	Identical Prototype



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 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 : 23.44 dBm LTE Band 38 : 24.84 dBm LTE Band 41 : 25.36 dBm LTE Band 7C : 24.47 dBm LTE Band 38C : 25.04 dBm LTE Band 41C : 25.24 dBm <Ant. 2> LTE Band 7 : 23.98 dBm LTE Band 38 : 24.45 dBm LTE Band 41 : 24.67 dBm LTE Band 7C : 24.01 dBm LTE Band 38C : 24.42 dBm LTE Band 41C : 25.10 dBm <Ant. 3> LTE Band 38 : 24.99 dBm LTE Band 41 : 25.32 dBm LTE Band 38C : 25.21 dBm LTE Band 41C : 25.58 dBm <Ant. 4> LTE Band 7 : 23.96 dBm LTE Band 38 : 24.88 dBm LTE Band 41 : 25.33 dBm LTE Band 7C : 23.94 dBm LTE Band 38C : 25.54 dBm LTE Band 41C : 24.97 dBm
Antenna Gain	<Ant. 1> LTE Band 7 : -0.39 dBi LTE Band 38 : -0.39 dBi LTE Band 41 : -0.39 dBi <Ant. 2> LTE Band 7 : -1.50 dBi LTE Band 38 : -1.50 dBi LTE Band 41 : -1.50 dBi <Ant. 3> LTE Band 38 : -1.30 dBi LTE Band 41 : -1.30 dBi <Ant. 4> LTE Band 7 : -6.00 dBi LTE Band 38 : -6.00 dBi



	LTE Band 41 : -6.00 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 are shown in the report, Ant.1 for LTE B7/38/41/7C/38C/41C.
2. The device supports two PAs for LTE B38/41(main PA and other PA), the maximum power of main PA is higher than the other PA, therefore, we chose higher power of main PA to calculate the EIRP and show in the report.
3. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power.

1.5 Modification of EUT

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

1.6 Maximum EIRP 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	0.1977	4M49G7D	0.1545	4M49W7D
10	2505.0 ~ 2565.0	0.1995	9M05G7D	0.1538	9M05W7D
15	2507.5 ~ 2562.5	0.2009	13M5G7D	0.1524	13M5W7D
20	2510.0 ~ 2560.0	0.2018	17M9G7D	0.1549	18M0W7D
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	0.3069	4M49G7D	0.2360	4M51W7D
10	2575.0 ~ 2615.0	0.3048	9M05G7D	0.2296	9M03W7D
15	2577.5 ~ 2612.5	0.3105	13M5G7D	0.2312	13M5W7D
20	2580.0 ~ 2610.0	0.3141	17M9G7D	0.2377	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	0.3069	4M49G7D	0.2360	4M51W7D
10	2501.0 ~ 2685.0	0.3048	9M05G7D	0.2296	9M03W7D
15	2503.5 ~ 2682.5	0.3105	13M5G7D	0.2312	13M5W7D
20	2506.0 ~ 2680.0	0.3141	17M9G7D	0.2377	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	0.2500	27M8G7D	0.2128	28M3W7D
15MHz+15MHz	0.2506	28M6G7D	0.2123	28M8W7D
15MHz+20MHz	0.2559	32M9G7D	0.2173	33M2W7D
15MHz+10MHz	0.2541	23M4G7D	0.2153	23M4W7D
20MHz+10MHz	0.2483	28M1G7D	0.2094	28M1W7D
20MHz+15MHz	0.2535	32M8G7D	0.2228	32M9W7D
20MHz+20MHz	0.2477	37M4G7D	0.2094	37M7W7D
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	0.2917	28M5G7D	0.2307	28M6W7D
20MHz+20MHz	0.2673	37M4G7D	0.2360	37M3W7D
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	0.2999	23M2G7D	0.2438	23M2W7D
10MHz+20MHz	0.2917	27M9G7D	0.2339	27M7W7D
10MHz+15MHz	0.2938	23M3G7D	0.2366	23M4W7D
15MHz+15MHz	0.2951	28M5G7D	0.2366	28M6W7D
15MHz+20MHz	0.2992	32M6G7D	0.2355	32M9W7D
15MHz+10MHz	0.2965	23M4G7D	0.2344	23M4W7D
20MHz+5MHz	0.3048	23M2G7D	0.2399	23M1W7D
20MHz+10MHz	0.2979	27M9G7D	0.2399	27M8W7D
20MHz+15MHz	0.2972	33M0G7D	0.2399	33M0W7D
20MHz+20MHz	0.3055	37M4G7D	0.2477	37M3W7D

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.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-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 2, 27(M)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

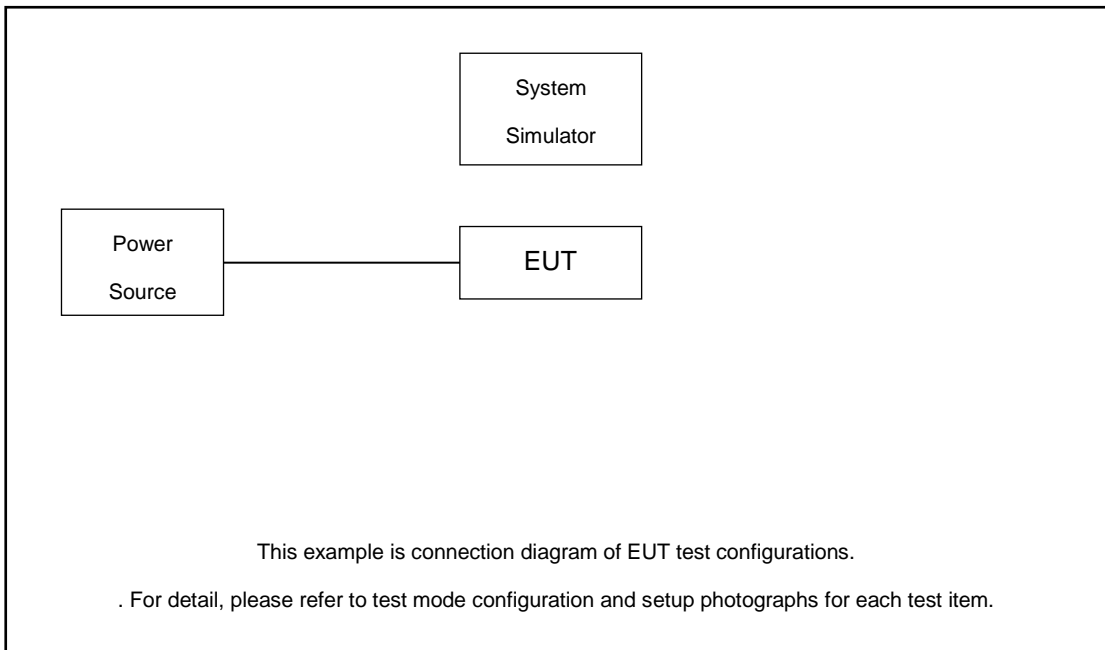
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission. (Y Plane)

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	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	
	41	-	-	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
	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	<ol style="list-style-type: none"> 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. All test items are based on engineering evaluation. 																	



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	16Q AM	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	v	v
	38C_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	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
	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	<ol style="list-style-type: none"> 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. All test items are based on engineering evaluation. 																				

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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

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

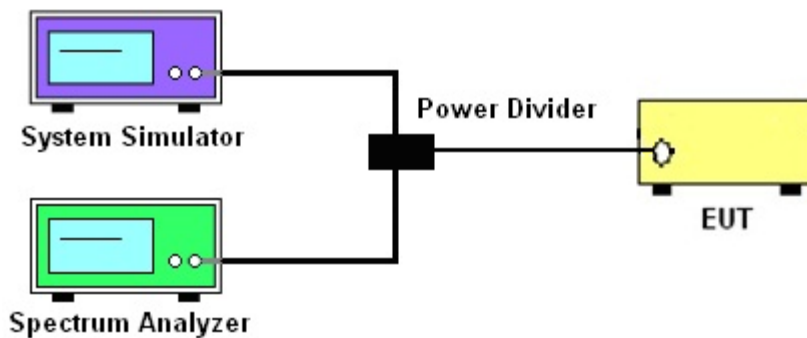
See list of measuring instruments of this test report.

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.



3.5 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 that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
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 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. 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.

When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

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



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

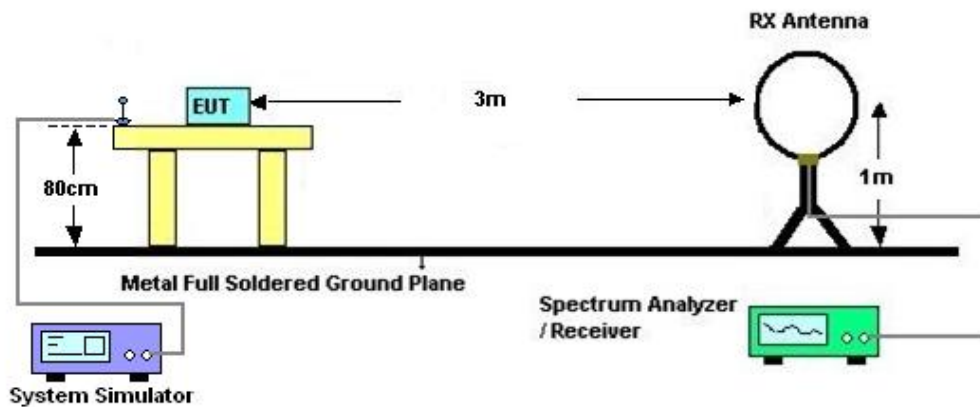
4 Radiated Test Items

4.1 Measuring Instruments

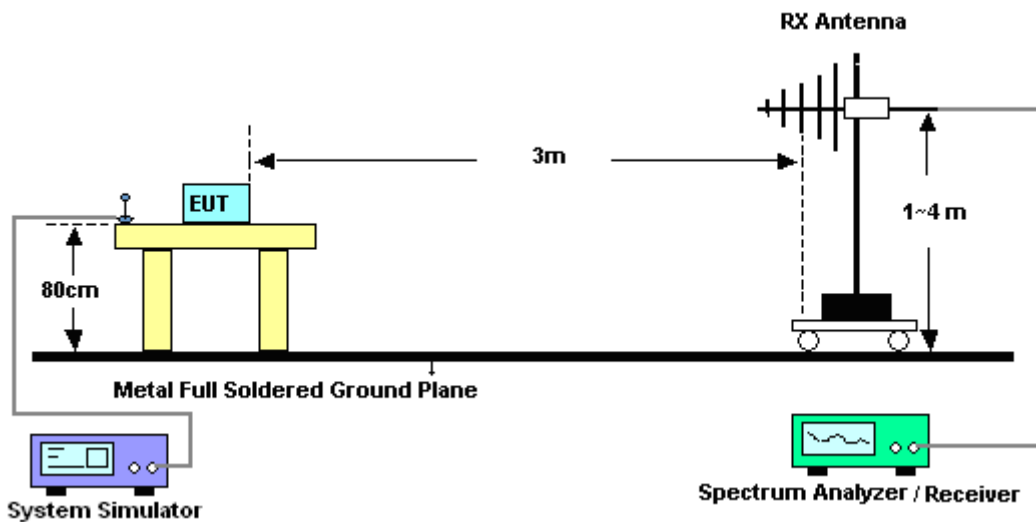
See list of measuring instruments of this test report.

4.2 Test Setup

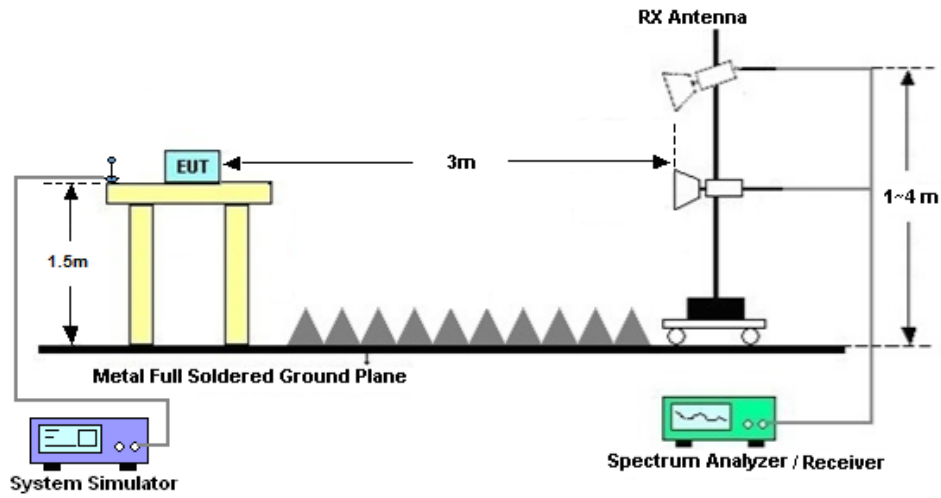
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

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

Please refer to Appendix B.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38, 41

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

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

4.4.2 Test Procedures

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

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. 06, 2023	Sep. 21, 2023~ Sep. 26, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 17, 2022	Sep. 21, 2023~ Sep. 26, 2023	Oct. 16, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Sep. 21, 2023~ Sep. 26, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Sep. 21, 2023~ Sep. 26, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	May 14, 2023	Oct. 11, 2023	May 13, 2024	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 08, 2023	Oct. 11, 2023	Jul. 07, 2024	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Oct. 11, 2023	Oct. 18, 2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Oct. 11, 2023	Jul. 06, 2024	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY57280136	500MHz~26.5GHz	Aug. 21, 2023	Oct. 11, 2023	Aug. 20, 2024	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F119050019	N/A	Nov.10, 2022	Oct. 11, 2023	Nov.09, 2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 11, 2023	NCR	Radiation (03CH04-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 Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9 dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Change Chen	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

LTE Band 7 - Ant.1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.41	23.44	23.37
20	QPSK	1	49	23.36	23.37	23.25
20	QPSK	1	99	23.33	23.43	23.31
20	QPSK	50	0	22.26	22.42	22.37
20	QPSK	50	24	22.15	22.40	22.26
20	QPSK	50	50	22.34	22.41	22.33
20	QPSK	100	0	22.18	22.36	22.26
20	16QAM	1	0	22.06	22.29	22.10
20	16QAM	1	49	22.17	22.15	22.07
20	16QAM	1	99	22.03	22.15	22.07
20	16QAM	50	0	21.24	21.38	21.36
20	16QAM	50	24	21.19	21.33	21.23
20	16QAM	50	50	21.18	21.34	21.20
20	16QAM	100	0	21.20	21.31	21.33
20	64QAM	1	0	21.23	21.28	21.14
20	64QAM	1	49	21.11	21.22	21.15
20	64QAM	1	99	21.21	21.26	21.17
20	64QAM	50	0	20.32	20.32	20.35
20	64QAM	50	24	20.16	20.33	20.19
20	64QAM	50	50	20.28	20.30	20.15
20	64QAM	100	0	20.27	20.34	20.25
20	256QAM	1	0	18.44	18.61	18.40
20	256QAM	1	49	18.42	18.44	18.40
20	256QAM	1	99	18.35	18.49	18.43
20	256QAM	50	0	18.27	18.36	18.21
20	256QAM	50	24	18.19	18.36	18.21
20	256QAM	50	50	18.13	18.24	18.19
20	256QAM	100	0	18.19	18.34	18.31
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.35	23.41	23.36
15	QPSK	1	37	23.32	23.36	23.20
15	QPSK	1	74	23.31	23.42	23.32
15	QPSK	36	0	22.21	22.33	22.30
15	QPSK	36	20	22.13	22.34	22.26



15	QPSK	36	39	22.26	22.34	22.24
15	QPSK	75	0	22.20	22.27	22.20
15	16QAM	1	0	22.03	22.22	22.10
15	16QAM	1	37	22.14	22.06	22.01
15	16QAM	1	74	22.00	22.17	22.09
15	16QAM	36	0	21.18	21.28	21.29
15	16QAM	36	20	21.15	21.30	21.13
15	16QAM	36	39	21.15	21.27	21.11
15	16QAM	75	0	21.16	21.24	21.33
15	64QAM	1	0	21.21	21.26	21.09
15	64QAM	1	37	21.03	21.15	21.12
15	64QAM	1	74	21.19	21.21	21.15
15	64QAM	36	0	20.34	20.23	20.27
15	64QAM	36	20	20.14	20.24	20.12
15	64QAM	36	39	20.19	20.24	20.07
15	64QAM	75	0	20.24	20.33	20.24
15	256QAM	1	0	18.40	18.52	18.42
15	256QAM	1	37	18.36	18.45	18.37
15	256QAM	1	74	18.27	18.42	18.34
15	256QAM	36	0	18.19	18.32	18.22
15	256QAM	36	20	18.11	18.28	18.22
15	256QAM	36	39	18.05	18.21	18.13
15	256QAM	75	0	18.16	18.29	18.21
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.30	23.39	23.34
10	QPSK	1	25	23.23	23.32	23.19
10	QPSK	1	49	23.29	23.38	23.22
10	QPSK	25	0	22.25	22.37	22.38
10	QPSK	25	12	22.16	22.33	22.26
10	QPSK	25	25	22.27	22.43	22.28
10	QPSK	50	0	22.14	22.35	22.27
10	16QAM	1	0	22.15	22.26	22.10
10	16QAM	1	25	22.09	22.06	22.03
10	16QAM	1	49	22.02	22.12	22.02
10	16QAM	25	0	21.17	21.40	21.38
10	16QAM	25	12	21.10	21.31	21.18
10	16QAM	25	25	21.18	21.36	21.15
10	16QAM	50	0	21.16	21.29	21.27
10	64QAM	1	0	21.21	21.23	21.13
10	64QAM	1	25	21.04	21.18	21.12
10	64QAM	1	49	21.18	21.20	21.09
10	64QAM	25	0	20.31	20.28	20.33
10	64QAM	25	12	20.13	20.30	20.21
10	64QAM	25	25	20.30	20.21	20.07
10	64QAM	50	0	20.25	20.25	20.18
10	256QAM	1	0	18.35	18.61	18.33
10	256QAM	1	25	18.39	18.34	18.37
10	256QAM	1	49	18.28	18.46	18.36
10	256QAM	25	0	18.28	18.36	18.21



10	256QAM	25	12	18.17	18.35	18.16
10	256QAM	25	25	18.12	18.24	18.14
10	256QAM	50	0	18.10	18.27	18.30
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.31	23.35	23.27
5	QPSK	1	12	23.26	23.31	23.21
5	QPSK	1	24	23.22	23.26	23.20
5	QPSK	12	0	22.18	22.37	22.35
5	QPSK	12	7	22.07	22.39	22.22
5	QPSK	12	13	22.25	22.38	22.29
5	QPSK	25	0	22.10	22.35	22.17
5	16QAM	1	0	22.07	22.28	22.06
5	16QAM	1	12	22.11	22.13	22.05
5	16QAM	1	24	22.04	22.15	22.06
5	16QAM	12	0	21.19	21.28	21.34
5	16QAM	12	7	21.09	21.29	21.24
5	16QAM	12	13	21.13	21.28	21.15
5	16QAM	25	0	21.13	21.30	21.35
5	64QAM	1	0	21.24	21.26	21.14
5	64QAM	1	12	21.09	21.16	21.16
5	64QAM	1	24	21.21	21.22	21.15
5	64QAM	12	0	20.24	20.26	20.36
5	64QAM	12	7	20.12	20.33	20.14
5	64QAM	12	13	20.29	20.28	20.05
5	64QAM	25	0	20.19	20.33	20.24
5	256QAM	1	0	18.43	18.56	18.40
5	256QAM	1	12	18.33	18.44	18.33
5	256QAM	1	24	18.28	18.44	18.41
5	256QAM	12	0	18.20	18.29	18.15
5	256QAM	12	7	18.20	18.34	18.15
5	256QAM	12	13	18.03	18.16	18.11
5	256QAM	25	0	18.14	18.34	18.27



LTE Band 38 - Ant.1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	24.70	24.84	24.76
20	QPSK	1	49	24.65	24.71	24.58
20	QPSK	1	99	24.61	24.74	24.79
20	QPSK	50	0	23.56	23.78	23.71
20	QPSK	50	24	23.61	23.67	23.58
20	QPSK	50	50	23.69	23.68	23.62
20	QPSK	100	0	23.53	23.69	23.63
20	16QAM	1	0	23.43	23.61	23.49
20	16QAM	1	49	23.51	23.54	23.50
20	16QAM	1	99	23.42	23.55	23.45
20	16QAM	50	0	22.65	22.75	22.69
20	16QAM	50	24	22.59	22.64	22.49
20	16QAM	50	50	22.53	22.66	22.61
20	16QAM	100	0	22.66	22.76	22.66
20	64QAM	1	0	22.55	22.59	22.46
20	64QAM	1	49	22.48	22.58	22.57
20	64QAM	1	99	22.61	22.57	22.54
20	64QAM	50	0	21.62	21.73	21.67
20	64QAM	50	24	21.56	21.59	21.53
20	64QAM	50	50	21.59	21.73	21.49
20	64QAM	100	0	21.54	21.77	21.61
20	256QAM	1	0	19.74	19.87	19.83
20	256QAM	1	49	19.78	19.69	19.67
20	256QAM	1	99	19.77	19.83	19.76
20	256QAM	50	0	19.63	19.66	19.61
20	256QAM	50	24	19.56	19.63	19.62
20	256QAM	50	50	19.46	19.64	19.56
20	256QAM	100	0	19.57	19.70	19.66
Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	24.60	24.81	24.66
15	QPSK	1	37	24.53	24.60	24.43
15	QPSK	1	74	24.51	24.66	24.64
15	QPSK	36	0	23.53	23.68	23.66
15	QPSK	36	20	23.52	23.55	23.52
15	QPSK	36	39	23.59	23.64	23.47
15	QPSK	75	0	23.42	23.57	23.52
15	16QAM	1	0	23.40	23.53	23.41
15	16QAM	1	37	23.41	23.45	23.40
15	16QAM	1	74	23.29	23.49	23.39
15	16QAM	36	0	22.51	22.60	22.64
15	16QAM	36	20	22.48	22.53	22.41
15	16QAM	36	39	22.44	22.57	22.51
15	16QAM	75	0	22.56	22.61	22.56



15	64QAM	1	0	22.41	22.51	22.42
15	64QAM	1	37	22.41	22.45	22.54
15	64QAM	1	74	22.57	22.50	22.49
15	64QAM	36	0	21.57	21.67	21.62
15	64QAM	36	20	21.48	21.51	21.38
15	64QAM	36	39	21.50	21.59	21.41
15	64QAM	75	0	21.41	21.69	21.53
15	256QAM	1	0	19.70	19.74	19.79
15	256QAM	1	37	19.72	19.63	19.58
15	256QAM	1	74	19.72	19.70	19.62
15	256QAM	36	0	19.48	19.55	19.52
15	256QAM	36	20	19.49	19.54	19.55
15	256QAM	36	39	19.37	19.58	19.50
15	256QAM	75	0	19.46	19.66	19.56
Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	24.66	24.79	24.69
10	QPSK	1	25	24.59	24.63	24.49
10	QPSK	1	49	24.52	24.70	24.67
10	QPSK	25	0	23.53	23.74	23.57
10	QPSK	25	12	23.56	23.53	23.54
10	QPSK	25	25	23.56	23.54	23.49
10	QPSK	50	0	23.43	23.59	23.52
10	16QAM	1	0	23.36	23.56	23.38
10	16QAM	1	25	23.42	23.51	23.44
10	16QAM	1	49	23.34	23.43	23.31
10	16QAM	25	0	22.57	22.63	22.59
10	16QAM	25	12	22.52	22.49	22.43
10	16QAM	25	25	22.39	22.62	22.52
10	16QAM	50	0	22.54	22.66	22.61
10	64QAM	1	0	22.49	22.55	22.32
10	64QAM	1	25	22.35	22.43	22.48
10	64QAM	1	49	22.56	22.48	22.50
10	64QAM	25	0	21.49	21.68	21.55
10	64QAM	25	12	21.43	21.52	21.44
10	64QAM	25	25	21.51	21.61	21.34
10	64QAM	50	0	21.46	21.66	21.57
10	256QAM	1	0	19.68	19.81	19.71
10	256QAM	1	25	19.66	19.56	19.55
10	256QAM	1	49	19.68	19.73	19.66
10	256QAM	25	0	19.60	19.60	19.58
10	256QAM	25	12	19.42	19.56	19.54
10	256QAM	25	25	19.34	19.50	19.45
10	256QAM	50	0	19.44	19.64	19.56
Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	24.61	24.74	24.64
5	QPSK	1	12	24.52	24.64	24.46
5	QPSK	1	24	24.49	24.62	24.71
5	QPSK	12	0	23.44	23.68	23.61



5	QPSK	12	7	23.50	23.54	23.50
5	QPSK	12	13	23.62	23.57	23.51
5	QPSK	25	0	23.39	23.59	23.58
5	16QAM	1	0	23.32	23.51	23.36
5	16QAM	1	12	23.40	23.43	23.43
5	16QAM	1	24	23.39	23.40	23.38
5	16QAM	12	0	22.58	22.71	22.63
5	16QAM	12	7	22.53	22.58	22.39
5	16QAM	12	13	22.41	22.57	22.49
5	16QAM	25	0	22.61	22.68	22.51
5	64QAM	1	0	22.50	22.52	22.39
5	64QAM	1	12	22.41	22.51	22.54
5	64QAM	1	24	22.58	22.49	22.45
5	64QAM	12	0	21.56	21.70	21.61
5	64QAM	12	7	21.44	21.49	21.49
5	64QAM	12	13	21.48	21.64	21.44
5	64QAM	25	0	21.45	21.73	21.48
5	256QAM	1	0	19.62	19.83	19.77
5	256QAM	1	12	19.64	19.56	19.58
5	256QAM	1	24	19.69	19.70	19.68
5	256QAM	12	0	19.57	19.56	19.48
5	256QAM	12	7	19.47	19.48	19.50
5	256QAM	12	13	19.42	19.49	19.44
5	256QAM	25	0	19.49	19.62	19.54



LTE Band 41 - Ant.1:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	25.26	25.36	25.22
20	QPSK	1	49	25.12	25.23	25.09
20	QPSK	1	99	25.14	25.30	25.20
20	QPSK	50	0	24.18	24.25	24.19
20	QPSK	50	24	24.14	24.18	24.14
20	QPSK	50	50	24.17	24.21	24.06
20	QPSK	100	0	24.05	24.18	24.10
20	16QAM	1	0	23.94	24.15	23.97
20	16QAM	1	49	23.96	24.12	23.98
20	16QAM	1	99	23.88	24.00	23.86
20	16QAM	50	0	23.13	23.20	23.07
20	16QAM	50	24	23.02	23.19	23.14
20	16QAM	50	50	23.07	23.10	23.11
20	16QAM	100	0	23.05	23.15	23.05
20	64QAM	1	0	23.02	23.06	23.03
20	64QAM	1	49	22.92	23.09	22.95
20	64QAM	1	99	23.07	23.12	23.02
20	64QAM	50	0	22.14	22.21	22.07
20	64QAM	50	24	22.02	22.17	22.03
20	64QAM	50	50	22.05	22.14	22.05
20	64QAM	100	0	22.15	22.25	22.15
20	256QAM	1	0	20.30	20.34	20.32
20	256QAM	1	49	20.10	20.25	20.14
20	256QAM	1	99	20.29	20.32	20.18
20	256QAM	50	0	20.11	20.16	20.07
20	256QAM	50	24	20.01	20.15	20.00
20	256QAM	50	50	20.06	20.10	19.99
20	256QAM	100	0	20.08	20.16	20.11
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	25.20	25.31	25.12
15	QPSK	1	37	25.05	25.19	25.05
15	QPSK	1	74	25.00	25.16	25.12
15	QPSK	36	0	24.10	24.12	24.13
15	QPSK	36	20	24.06	24.03	24.03
15	QPSK	36	39	24.13	24.20	23.92
15	QPSK	75	0	24.02	24.03	24.05
15	16QAM	1	0	23.79	24.03	23.91
15	16QAM	1	37	23.84	23.99	23.92
15	16QAM	1	74	23.78	23.90	23.75
15	16QAM	36	0	23.09	23.14	22.98
15	16QAM	36	20	22.92	23.10	23.03
15	16QAM	36	39	22.97	22.98	22.98
15	16QAM	75	0	22.95	23.07	22.97



15	64QAM	1	0	22.96	22.99	22.99
15	64QAM	1	37	22.80	23.03	22.82
15	64QAM	1	74	22.93	22.99	22.91
15	64QAM	36	0	22.02	22.17	22.00
15	64QAM	36	20	21.93	22.03	21.89
15	64QAM	36	39	21.90	22.02	22.00
15	64QAM	75	0	22.10	22.13	22.08
15	256QAM	1	0	20.22	20.24	20.22
15	256QAM	1	37	20.05	20.10	20.10
15	256QAM	1	74	20.23	20.19	20.04
15	256QAM	36	0	20.06	20.09	20.04
15	256QAM	36	20	19.87	20.06	19.96
15	256QAM	36	39	19.96	20.03	19.90
15	256QAM	75	0	19.99	20.03	20.00
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	25.16	25.23	25.16
10	QPSK	1	25	25.08	25.12	25.00
10	QPSK	1	49	25.08	25.19	25.13
10	QPSK	25	0	24.11	24.15	24.14
10	QPSK	25	12	24.03	24.13	24.06
10	QPSK	25	25	24.05	24.20	24.03
10	QPSK	50	0	24.01	24.13	23.97
10	16QAM	1	0	23.80	24.00	23.85
10	16QAM	1	25	23.82	23.97	23.93
10	16QAM	1	49	23.82	23.94	23.81
10	16QAM	25	0	23.05	23.16	23.00
10	16QAM	25	12	22.91	23.13	23.04
10	16QAM	25	25	22.95	23.06	23.01
10	16QAM	50	0	23.01	23.08	22.91
10	64QAM	1	0	22.96	22.96	22.90
10	64QAM	1	25	22.83	23.03	22.92
10	64QAM	1	49	22.98	23.04	22.97
10	64QAM	25	0	22.03	22.15	21.98
10	64QAM	25	12	21.88	22.14	21.89
10	64QAM	25	25	21.96	22.00	22.00
10	64QAM	50	0	22.02	22.19	22.05
10	256QAM	1	0	20.17	20.26	20.24
10	256QAM	1	25	20.02	20.21	20.07
10	256QAM	1	49	20.21	20.22	20.05
10	256QAM	25	0	19.99	20.07	19.97
10	256QAM	25	12	19.93	20.01	19.90
10	256QAM	25	25	19.93	20.00	19.86
10	256QAM	50	0	19.94	20.04	20.07
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	25.17	25.26	25.19
5	QPSK	1	12	25.06	25.14	25.03
5	QPSK	1	24	25.11	25.15	25.08
5	QPSK	12	0	24.03	24.20	24.15



5	QPSK	12	7	24.03	24.13	24.03
5	QPSK	12	13	24.13	24.14	23.95
5	QPSK	25	0	23.96	24.11	24.03
5	16QAM	1	0	23.86	24.12	23.91
5	16QAM	1	12	23.81	24.05	23.85
5	16QAM	1	24	23.81	23.88	23.80
5	16QAM	12	0	23.10	23.10	22.98
5	16QAM	12	7	22.90	23.14	23.09
5	16QAM	12	13	22.98	23.06	23.04
5	16QAM	25	0	22.97	23.08	22.92
5	64QAM	1	0	22.97	23.00	23.00
5	64QAM	1	12	22.87	23.05	22.84
5	64QAM	1	24	22.95	23.05	22.92
5	64QAM	12	0	22.07	22.10	22.01
5	64QAM	12	7	21.87	22.13	21.90
5	64QAM	12	13	21.94	22.01	21.96
5	64QAM	25	0	22.01	22.20	22.08
5	256QAM	1	0	20.25	20.20	20.17
5	256QAM	1	12	20.02	20.21	20.03
5	256QAM	1	24	20.22	20.27	20.07
5	256QAM	12	0	19.97	20.04	20.02
5	256QAM	12	7	19.88	20.07	19.93
5	256QAM	12	13	19.93	19.95	19.85
5	256QAM	25	0	19.95	20.05	19.98



EIRP

LTE Band 7 (GT - LC = -0.39 dB) QPSK – Ant.1			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
	Conducted Power (dBm)	23.31	23.35
Conducted Power (Watts)	0.2143	0.2163	0.2123
EIRP(dBm)	22.92	22.96	22.88
EIRP(Watts)	0.1959	0.1977	0.1941

LTE Band 7 (GT - LC = -0.39 dB) QPSK – Ant.1									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
	Conducted Power (dBm)	23.30	23.39	23.34	23.31	23.42	23.32	23.41	23.44
Conducted Power (Watts)	0.2138	0.2183	0.2158	0.2143	0.2198	0.2148	0.2193	0.2208	0.2173
EIRP(dBm)	22.91	23.00	22.95	22.92	23.03	22.93	23.02	23.05	22.98
EIRP(Watts)	0.1954	0.1995	0.1972	0.1959	0.2009	0.1963	0.2004	0.2018	0.1986



LTE Band 7 (GT - LC = -0.39 dB) 16QAM – Ant.1			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
	Conducted Power (dBm)	22.07	22.28
Conducted Power (Watts)	0.1611	0.1690	0.1607
EIRP(dBm)	21.68	21.89	21.67
EIRP(Watts)	0.1472	0.1545	0.1469

LTE Band 7 (GT - LC = -0.39 dB) 16QAM – Ant.1									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
	Conducted Power (dBm)	22.15	22.26	22.10	22.03	22.22	22.10	22.06	22.29
Conducted Power (Watts)	0.1641	0.1683	0.1622	0.1596	0.1667	0.1622	0.1607	0.1694	0.1622
EIRP(dBm)	21.76	21.87	21.71	21.64	21.83	21.71	21.67	21.90	21.71
EIRP(Watts)	0.1500	0.1538	0.1483	0.1459	0.1524	0.1483	0.1469	0.1549	0.1483



LTE Band 7 (GT - LC = -0.39 dB) 64QAM – Ant.1			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
	Conducted Power (dBm)	21.24	21.26
Conducted Power (Watts)	0.1330	0.1337	0.1300
EIRP(dBm)	20.85	20.87	20.75
EIRP(Watts)	0.1216	0.1222	0.1189

LTE Band 7 (GT - LC = -0.39 dB) 64QAM – Ant.1									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
	Conducted Power (dBm)	21.21	21.23	21.13	21.21	21.26	21.09	21.23	21.28
Conducted Power (Watts)	0.1321	0.1327	0.1297	0.1321	0.1337	0.1285	0.1327	0.1343	0.1300
EIRP(dBm)	20.82	20.84	20.74	20.82	20.87	20.70	20.84	20.89	20.75
EIRP(Watts)	0.1208	0.1213	0.1186	0.1208	0.1222	0.1175	0.1213	0.1227	0.1189



LTE Band 7 (GT - LC = -0.39 dB) 256QAM – Ant.1			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	18.43	18.56	18.40
Conducted Power (Watts)	0.0697	0.0718	0.0692
EIRP(dBm)	18.04	18.17	18.01
EIRP(Watts)	0.0637	0.0656	0.0632

LTE Band 7 (GT - LC = -0.39 dB) 256QAM – Ant.1									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	18.35	18.61	18.33	18.40	18.52	18.42	18.44	18.61	18.40
Conducted Power (Watts)	0.0684	0.0726	0.0681	0.0692	0.0711	0.0695	0.0698	0.0726	0.0692
EIRP(dBm)	17.96	18.22	17.94	18.01	18.13	18.03	18.05	18.22	18.01
EIRP(Watts)	0.0625	0.0664	0.0622	0.0632	0.0650	0.0635	0.0638	0.0664	0.0632



LTE Band 41 (G _T - L _C = -0.39dB) QPSK – Ant.1									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	25.17	25.26	25.19	25.16	25.23	25.16	25.20	25.31	25.12
Conducted Power (Watts)	0.3289	0.3357	0.3304	0.3281	0.3334	0.3281	0.3311	0.3396	0.3251
EIRP(dBm)	24.78	24.87	24.80	24.77	24.84	24.77	24.81	24.92	24.73
EIRP(Watts)	0.3006	0.3069	0.3020	0.2999	0.3048	0.2999	0.3027	0.3105	0.2972

LTE Band 41 (G _T - L _C = -0.39dB) QPSK – Ant.1			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	25.26	25.36	25.22
Conducted Power (Watts)	0.3357	0.3436	0.3327
EIRP(dBm)	24.87	24.97	24.83
EIRP(Watts)	0.3069	0.3141	0.3041



LTE Band 41 (G _T - L _C = -0.39dB) 16QAM – Ant.1									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	23.86	24.12	23.91	23.80	24.00	23.85	23.79	24.03	23.91
Conducted Power (Watts)	0.2432	0.2582	0.2460	0.2399	0.2512	0.2427	0.2393	0.2529	0.2460
EIRP(dBm)	23.47	23.73	23.52	23.41	23.61	23.46	23.40	23.64	23.52
EIRP(Watts)	0.2223	0.2360	0.2249	0.2193	0.2296	0.2218	0.2188	0.2312	0.2249

LTE Band 41 (G _T - L _C = -0.39dB) 16QAM – Ant.1			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	23.94	24.15	23.97
Conducted Power (Watts)	0.2477	0.2600	0.2495
EIRP(dBm)	23.55	23.76	23.58
EIRP(Watts)	0.2265	0.2377	0.2280



LTE Band 41 (G _T - L _C = -0.39dB) 64QAM – Ant.1									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	22.95	23.05	22.92	22.98	23.04	22.97	22.80	23.03	22.82
Conducted Power (Watts)	0.1972	0.2018	0.1959	0.1986	0.2014	0.1982	0.1905	0.2009	0.1914
EIRP(dBm)	22.56	22.66	22.53	22.59	22.65	22.58	22.41	22.64	22.43
EIRP(Watts)	0.1803	0.1845	0.1791	0.1816	0.1841	0.1811	0.1742	0.1837	0.1750

LTE Band 41 (G _T - L _C = -0.39dB) 64QAM – Ant.1			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	23.07	23.12	23.02
Conducted Power (Watts)	0.2028	0.2051	0.2004
EIRP(dBm)	22.68	22.73	22.63
EIRP(Watts)	0.1854	0.1875	0.1832



LTE Band 41 (G _T - L _C = -0.39dB) 256QAM – Ant.1									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	20.22	20.27	20.07	20.17	20.26	20.24	20.22	20.24	20.22
Conducted Power (Watts)	0.1052	0.1064	0.1016	0.1040	0.1062	0.1057	0.1052	0.1057	0.1052
EIRP(dBm)	19.83	19.88	19.68	19.78	19.87	19.85	19.83	19.85	19.83
EIRP(Watts)	0.0962	0.0973	0.0929	0.0951	0.0971	0.0966	0.0962	0.0966	0.0962

LTE Band 41 (G _T - L _C = -0.39dB) 256QAM – Ant.1			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	20.30	20.34	20.32
Conducted Power (Watts)	0.1072	0.1081	0.1076
EIRP(dBm)	19.91	19.95	19.93
EIRP(Watts)	0.0979	0.0989	0.0984



CA Power&EIRP

LTE Band 7C - Ant.1:

Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	100	0	100	0	200	22.27	0.1542
			1	0	1	99	2	15.7	0.0340
			1	99	1	0	2	24.29	0.2455
		16QAM	100	0	100	0	200	21.29	0.1230
			1	0	1	99	2	16.02	0.0366
			1	99	1	0	2	23.53	0.2061
		64QAM	100	0	100	0	200	21.26	0.1222
			1	0	1	99	2	15.69	0.0339
			1	99	1	0	2	21.59	0.1318
		256QAM	100	0	100	0	200	19.25	0.0769
			1	0	1	99	2	15.91	0.0356
			1	99	1	0	2	19.53	0.0820
21001	21199	QPSK	100	0	100	0	200	22.41	0.1592
			1	0	1	99	2	15.72	0.0341
			1	99	1	0	2	24.33	0.2477
		16QAM	100	0	100	0	200	21.39	0.1259
			1	0	1	99	2	16.06	0.0369
			1	99	1	0	2	23.6	0.2094
		64QAM	100	0	100	0	200	21.36	0.1250
			1	0	1	99	2	16.03	0.0366
			1	99	1	0	2	21.73	0.1361
		256QAM	100	0	100	0	200	19.58	0.0830
			1	0	1	99	2	15.88	0.0354
			1	99	1	0	2	19.66	0.0845
21152	21350	QPSK	100	0	100	0	200	22.34	0.1567
			1	0	1	99	2	15.64	0.0335
			1	99	1	0	2	24.23	0.2421
		16QAM	100	0	100	0	200	21.27	0.1225
			1	0	1	99	2	15.95	0.0360
			1	99	1	0	2	23.52	0.2056
		64QAM	100	0	100	0	200	21.27	0.1225
			1	0	1	99	2	15.93	0.0358
			1	99	1	0	2	21.65	0.1337
		256QAM	100	0	100	0	200	19.48	0.0811
			1	0	1	99	2	15.75	0.0344
			1	99	1	0	2	19.58	0.0830



Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20850	21021	QPSK	100	0	75	0	175	22.44	0.1603
		QPSK	1	0	1	74	2	16.01	0.0365
		QPSK	1	99	1	0	2	24.34	0.2483
		16QAM	100	0	75	0	175	21.45	0.1276
		16QAM	1	0	1	74	2	16.31	0.0391
		16QAM	1	99	1	0	2	23.77	0.2178
		64QAM	100	0	75	0	175	21.46	0.1279
		64QAM	1	0	1	74	2	16.09	0.0372
		64QAM	1	99	1	0	2	21.7	0.1352
		256QAM	100	0	75	0	175	19.45	0.0805
		256QAM	1	0	1	74	2	16.02	0.0366
		256QAM	1	99	1	0	2	19.62	0.0838
21026	21197	QPSK	100	0	75	0	175	22.56	0.1648
		QPSK	1	0	1	74	2	16.08	0.0371
		QPSK	1	99	1	0	2	24.43	0.2535
		16QAM	100	0	75	0	175	21.54	0.1303
		16QAM	1	0	1	74	2	16.43	0.0402
		16QAM	1	99	1	0	2	23.87	0.2228
		64QAM	100	0	75	0	175	21.55	0.1306
		64QAM	1	0	1	74	2	16.2	0.0381
		64QAM	1	99	1	0	2	21.83	0.1393
		256QAM	100	0	75	0	175	19.52	0.0818
		256QAM	1	0	1	74	2	16.12	0.0374
		256QAM	1	99	1	0	2	19.73	0.0859
21201	21372	QPSK	100	0	75	0	175	22.45	0.1607
		QPSK	1	0	1	74	2	16	0.0364
		QPSK	1	99	1	0	2	24.31	0.2466
		16QAM	100	0	75	0	175	21.45	0.1276
		16QAM	1	0	1	74	2	16.34	0.0394
		16QAM	1	99	1	0	2	23.78	0.2183
		64QAM	100	0	75	0	175	21.43	0.1271
		64QAM	1	0	1	74	2	16.08	0.0371
		64QAM	1	99	1	0	2	21.72	0.1358
		256QAM	100	0	75	0	175	19.43	0.0802
		256QAM	1	0	1	74	2	16	0.0364
		256QAM	1	99	1	0	2	19.63	0.0839



Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20828	20999	QPSK	75	0	100	0	175	22.37	0.1578
		QPSK	1	0	1	99	2	15.85	0.0352
		QPSK	1	74	1	0	2	24.36	0.2495
		16QAM	75	0	100	0	175	21.43	0.1271
		16QAM	1	0	1	99	2	16.21	0.0382
		16QAM	1	74	1	0	2	23.67	0.2128
		64QAM	75	0	100	0	175	21.38	0.1256
		64QAM	1	0	1	99	2	16.15	0.0377
		64QAM	1	74	1	0	2	21.75	0.1368
		256QAM	75	0	100	0	175	19.41	0.0798
		256QAM	1	0	1	99	2	16.04	0.0367
		256QAM	1	74	1	0	2	19.63	0.0839
21003	21174	QPSK	75	0	100	0	175	22.44	0.1603
		QPSK	1	0	1	99	2	15.92	0.0357
		QPSK	1	74	1	0	2	24.47	0.2559
		16QAM	75	0	100	0	175	21.55	0.1306
		16QAM	1	0	1	99	2	16.29	0.0389
		16QAM	1	74	1	0	2	23.76	0.2173
		64QAM	75	0	100	0	175	21.47	0.1282
		64QAM	1	0	1	99	2	16.25	0.0385
		64QAM	1	74	1	0	2	21.87	0.1406
		256QAM	75	0	100	0	175	19.54	0.0822
		256QAM	1	0	1	99	2	16.12	0.0374
		256QAM	1	74	1	0	2	19.73	0.0859
21179	21350	QPSK	75	0	100	0	175	22.3	0.1552
		QPSK	1	0	1	99	2	15.74	0.0343
		QPSK	1	74	1	0	2	24.29	0.2455
		16QAM	75	0	100	0	175	21.34	0.1245
		16QAM	1	0	1	99	2	16.12	0.0374
		16QAM	1	74	1	0	2	23.56	0.2075
		64QAM	75	0	100	0	175	21.25	0.1219
		64QAM	1	0	1	99	2	16.04	0.0367
		64QAM	1	74	1	0	2	21.67	0.1343
		256QAM	75	0	100	0	175	19.28	0.0774
		256QAM	1	0	1	99	2	15.92	0.0357
		256QAM	1	74	1	0	2	19.53	0.0820



Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20850	20994	QPSK	100	0	50	0	150	22.22	0.1524
		QPSK	1	0	1	49	2	15.69	0.0339
		QPSK	1	99	1	0	2	24.2	0.2404
		16QAM	100	0	50	0	150	21.26	0.1222
		16QAM	1	0	1	49	2	16.08	0.0371
		16QAM	1	99	1	0	2	23.49	0.2042
		64QAM	100	0	50	0	150	21.2	0.1205
		64QAM	1	0	1	49	2	15.99	0.0363
		64QAM	1	99	1	0	2	21.61	0.1324
		256QAM	100	0	50	0	150	19.24	0.0767
		256QAM	1	0	1	49	2	15.92	0.0357
		256QAM	1	99	1	0	2	19.49	0.0813
21051	21195	QPSK	100	0	50	0	150	22.28	0.1545
		QPSK	1	0	1	49	2	15.78	0.0346
		QPSK	1	99	1	0	2	24.34	0.2483
		16QAM	100	0	50	0	150	21.41	0.1265
		16QAM	1	0	1	49	2	16.11	0.0373
		16QAM	1	99	1	0	2	23.6	0.2094
		64QAM	100	0	50	0	150	21.3	0.1233
		64QAM	1	0	1	49	2	16.13	0.0375
		64QAM	1	99	1	0	2	21.71	0.1355
		256QAM	100	0	50	0	150	19.41	0.0798
		256QAM	1	0	1	49	2	15.94	0.0359
		256QAM	1	99	1	0	2	19.61	0.0836
21251	21395	QPSK	100	0	50	0	150	22.14	0.1496
		QPSK	1	0	1	49	2	15.6	0.0332
		QPSK	1	99	1	0	2	24.13	0.2366
		16QAM	100	0	50	0	150	21.22	0.1211
		16QAM	1	0	1	49	2	15.95	0.0360
		16QAM	1	99	1	0	2	23.39	0.1995
		64QAM	100	0	50	0	150	21.11	0.1180
		64QAM	1	0	1	49	2	15.87	0.0353
		64QAM	1	99	1	0	2	21.5	0.1291
		256QAM	100	0	50	0	150	19.14	0.0750
		256QAM	1	0	1	49	2	15.78	0.0346
		256QAM	1	99	1	0	2	19.41	0.0798



Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20805	20949	QPSK	50	0	100	0	150	22.28	0.1545
		QPSK	1	0	1	99	2	15.73	0.0342
		QPSK	1	49	1	0	2	24.23	0.2421
		16QAM	50	0	100	0	150	21.29	0.1230
		16QAM	1	0	1	99	2	16.15	0.0377
		16QAM	1	49	1	0	2	23.55	0.2070
		64QAM	50	0	100	0	150	21.23	0.1213
		64QAM	1	0	1	99	2	16.02	0.0366
		64QAM	1	49	1	0	2	21.66	0.1340
		256QAM	50	0	100	0	150	19.3	0.0778
		256QAM	1	0	1	99	2	15.98	0.0362
		256QAM	1	49	1	0	2	19.54	0.0822
21006	21150	QPSK	50	0	100	0	150	22.33	0.1563
		QPSK	1	0	1	99	2	15.84	0.0351
		QPSK	1	49	1	0	2	24.37	0.2500
		16QAM	50	0	100	0	150	21.44	0.1274
		16QAM	1	0	1	99	2	16.16	0.0378
		16QAM	1	49	1	0	2	23.67	0.2128
		64QAM	50	0	100	0	150	21.36	0.1250
		64QAM	1	0	1	99	2	16.2	0.0381
		64QAM	1	49	1	0	2	21.78	0.1377
		256QAM	50	0	100	0	150	19.45	0.0805
		256QAM	1	0	1	99	2	15.99	0.0363
		256QAM	1	49	1	0	2	19.66	0.0845
21206	21350	QPSK	50	0	100	0	150	22.18	0.1510
		QPSK	1	0	1	99	2	15.67	0.0337
		QPSK	1	49	1	0	2	24.19	0.2399
		16QAM	50	0	100	0	150	21.26	0.1222
		16QAM	1	0	1	99	2	15.98	0.0362
		16QAM	1	49	1	0	2	23.42	0.2009
		64QAM	50	0	100	0	150	21.13	0.1186
		64QAM	1	0	1	99	2	15.92	0.0357
		64QAM	1	49	1	0	2	21.53	0.1300
		256QAM	50	0	100	0	150	19.17	0.0755
		256QAM	1	0	1	99	2	15.81	0.0348
		256QAM	1	49	1	0	2	19.47	0.0809



Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20825	20975	QPSK	75	0	75	0	150	22.3	0.1552
		QPSK	1	0	1	74	2	15.73	0.0342
		QPSK	1	74	1	0	2	24.24	0.2427
		16QAM	75	0	75	0	150	21.29	0.1230
		16QAM	1	0	1	74	2	16.16	0.0378
		16QAM	1	74	1	0	2	23.54	0.2065
		64QAM	75	0	75	0	150	21.24	0.1216
		64QAM	1	0	1	74	2	16.01	0.0365
		64QAM	1	74	1	0	2	21.69	0.1349
		256QAM	75	0	75	0	150	19.28	0.0774
		256QAM	1	0	1	74	2	15.95	0.0360
		256QAM	1	74	1	0	2	19.54	0.0822
21025	21175	QPSK	75	0	75	0	150	22.34	0.1567
		QPSK	1	0	1	74	2	15.84	0.0351
		QPSK	1	74	1	0	2	24.38	0.2506
		16QAM	75	0	75	0	150	21.48	0.1285
		16QAM	1	0	1	74	2	16.15	0.0377
		16QAM	1	74	1	0	2	23.66	0.2123
		64QAM	75	0	75	0	150	21.38	0.1256
		64QAM	1	0	1	74	2	16.15	0.0377
		64QAM	1	74	1	0	2	21.74	0.1365
		256QAM	75	0	75	0	150	19.46	0.0807
		256QAM	1	0	1	74	2	16.02	0.0366
		256QAM	1	74	1	0	2	19.66	0.0845
21225	21375	QPSK	75	0	75	0	150	22.21	0.1521
		QPSK	1	0	1	74	2	15.63	0.0334
		QPSK	1	74	1	0	2	24.19	0.2399
		16QAM	75	0	75	0	150	21.28	0.1227
		16QAM	1	0	1	74	2	15.98	0.0362
		16QAM	1	74	1	0	2	23.47	0.2032
		64QAM	75	0	75	0	150	21.17	0.1197
		64QAM	1	0	1	74	2	15.96	0.0361
		64QAM	1	74	1	0	2	21.57	0.1312
		256QAM	75	0	75	0	150	19.2	0.0760
		256QAM	1	0	1	74	2	15.86	0.0352
		256QAM	1	74	1	0	2	19.51	0.0817



Combination 15MHz+10MHz (75RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
20825	20945	QPSK	75	0	50	0	125	22.34	0.1567
		QPSK	1	0	1	49	2	15.79	0.0347
		QPSK	1	74	1	0	2	24.26	0.2438
		16QAM	75	0	50	0	125	21.34	0.1245
		16QAM	1	0	1	49	2	16.18	0.0379
		16QAM	1	74	1	0	2	23.6	0.2094
		64QAM	75	0	50	0	125	21.25	0.1219
		64QAM	1	0	1	49	2	16.08	0.0371
		64QAM	1	74	1	0	2	21.73	0.1361
		256QAM	75	0	50	0	125	19.34	0.0785
		256QAM	1	0	1	49	2	16.06	0.0369
		256QAM	1	74	1	0	2	19.57	0.0828
21051	21171	QPSK	75	0	50	0	125	22.36	0.1574
		QPSK	1	0	1	49	2	15.88	0.0354
		QPSK	1	74	1	0	2	24.44	0.2541
		16QAM	75	0	50	0	125	21.5	0.1291
		16QAM	1	0	1	49	2	16.23	0.0384
		16QAM	1	74	1	0	2	23.72	0.2153
		64QAM	75	0	50	0	125	21.39	0.1259
		64QAM	1	0	1	49	2	16.22	0.0383
		64QAM	1	74	1	0	2	21.86	0.1403
		256QAM	75	0	50	0	125	19.52	0.0818
		256QAM	1	0	1	49	2	16.04	0.0367
		256QAM	1	74	1	0	2	19.69	0.0851
21277	21397	QPSK	75	0	50	0	125	22.25	0.1535
		QPSK	1	0	1	49	2	15.74	0.0343
		QPSK	1	74	1	0	2	24.22	0.2415
		16QAM	75	0	50	0	125	21.29	0.1230
		16QAM	1	0	1	49	2	16.04	0.0367
		16QAM	1	74	1	0	2	23.47	0.2032
		64QAM	75	0	50	0	125	21.16	0.1194
		64QAM	1	0	1	49	2	15.93	0.0358
		64QAM	1	74	1	0	2	21.57	0.1312
		256QAM	75	0	50	0	125	19.19	0.0759
		256QAM	1	0	1	49	2	15.8	0.0348
		256QAM	1	74	1	0	2	19.47	0.0809



LTE Band 38C - Ant.1:

Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	100	0	100	0	200	23	0.1824
			1	0	1	99	2	16.35	0.0394
			1	99	1	0	2	24.61	0.2642
		16QAM	100	0	100	0	200	22.02	0.1455
			1	0	1	99	2	16.48	0.0406
			1	99	1	0	2	24.05	0.2323
		64QAM	100	0	100	0	200	21.97	0.1439
			1	0	1	99	2	16.34	0.0394
			1	99	1	0	2	21.94	0.1429
		256QAM	100	0	100	0	200	20.03	0.0920
			1	0	1	99	2	16.41	0.0400
			1	99	1	0	2	20.08	0.0931
37901	38099	QPSK	100	0	100	0	200	23.09	0.1862
			1	0	1	99	2	16.45	0.0404
			1	99	1	0	2	24.66	0.2673
		16QAM	100	0	100	0	200	22.13	0.1493
			1	0	1	99	2	16.57	0.0415
			1	99	1	0	2	24.12	0.2360
		64QAM	100	0	100	0	200	22.09	0.1479
			1	0	1	99	2	16.45	0.0404
			1	99	1	0	2	22.05	0.1466
		256QAM	100	0	100	0	200	20.14	0.0944
			1	0	1	99	2	16.52	0.0410
			1	99	1	0	2	20.19	0.0955
37952	38150	QPSK	100	0	100	0	200	22.91	0.1786
			1	0	1	99	2	16.27	0.0387
			1	99	1	0	2	24.57	0.2618
		16QAM	100	0	100	0	200	21.89	0.1413
			1	0	1	99	2	16.36	0.0395
			1	99	1	0	2	23.97	0.2280
		64QAM	100	0	100	0	200	21.84	0.1396
			1	0	1	99	2	16.23	0.0384
			1	99	1	0	2	21.81	0.1387
		256QAM	100	0	100	0	200	19.92	0.0897
			1	0	1	99	2	16.33	0.0393
			1	99	1	0	2	19.97	0.0908



Combination 15MHz+15MHz (75RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset			
37825	37975	QPSK	75	0	75	0	150	22.89	0.1778
		QPSK	1	0	1	74	2	16.24	0.0385
		QPSK	1	74	1	0	2	25	0.2891
		16QAM	75	0	75	0	150	21.92	0.1422
		16QAM	1	0	1	74	2	16.4	0.0399
		16QAM	1	74	1	0	2	23.97	0.2280
		64QAM	75	0	75	0	150	21.85	0.1400
		64QAM	1	0	1	74	2	16.22	0.0383
		64QAM	1	74	1	0	2	21.83	0.1393
		256QAM	75	0	75	0	150	19.95	0.0904
		256QAM	1	0	1	74	2	16.28	0.0388
		256QAM	1	74	1	0	2	20	0.0914
37925	38075	QPSK	75	0	75	0	150	22.96	0.1807
		QPSK	1	0	1	74	2	16.33	0.0393
		QPSK	1	74	1	0	2	25.04	0.2917
		16QAM	75	0	75	0	150	22.05	0.1466
		16QAM	1	0	1	74	2	16.45	0.0404
		16QAM	1	74	1	0	2	24.02	0.2307
		64QAM	75	0	75	0	150	21.97	0.1439
		64QAM	1	0	1	74	2	16.33	0.0393
		64QAM	1	74	1	0	2	21.97	0.1439
		256QAM	75	0	75	0	150	20.03	0.0920
		256QAM	1	0	1	74	2	16.44	0.0403
		256QAM	1	74	1	0	2	20.11	0.0938
38025	38175	QPSK	75	0	75	0	150	22.82	0.1750
		QPSK	1	0	1	74	2	16.19	0.0380
		QPSK	1	74	1	0	2	24.92	0.2838
		16QAM	75	0	75	0	150	21.82	0.1390
		16QAM	1	0	1	74	2	16.28	0.0388
		16QAM	1	74	1	0	2	23.89	0.2239
		64QAM	75	0	75	0	150	21.77	0.1374
		64QAM	1	0	1	74	2	16.14	0.0376
		64QAM	1	74	1	0	2	21.73	0.1361
		256QAM	75	0	75	0	150	19.79	0.0871
		256QAM	1	0	1	74	2	16.24	0.0385
		256QAM	1	74	1	0	2	19.87	0.0887



LTE Band 41C - Ant.1:

Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	Max	1	0	25.03	0.2911
40521	40719	QPSK	1	Max	1	0	25.08	0.2944
41292	41490	QPSK	1	Max	1	0	25.24	0.3055
39750	39948	16QAM	1	Max	1	0	24.12	0.2360
40521	40719	16QAM	1	Max	1	0	24.13	0.2366
41292	41490	16QAM	1	Max	1	0	24.33	0.2477
39750	39948	64QAM	1	Max	1	0	22.01	0.1452
40521	40719	64QAM	1	Max	1	0	22.02	0.1455
41292	41490	64QAM	1	Max	1	0	22.19	0.1514
39750	39948	256QAM	1	Max	1	0	20.08	0.0931
40521	40719	256QAM	1	Max	1	0	20.16	0.0948
41292	41490	256QAM	1	Max	1	0	20.42	0.1007
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40546	40717	QPSK	1	Max	1	0	25.12	0.2972
40546	40717	16QAM	1	Max	1	0	24.19	0.2399
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40523	40694	QPSK	1	Max	1	0	25.15	0.2992
40523	40694	16QAM	1	Max	1	0	24.11	0.2355
Combination 15MHz+15MHz (75RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40545	40695	QPSK	1	Max	1	0	25.09	0.2951
40545	40695	16QAM	1	Max	1	0	24.13	0.2366
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40571	40715	QPSK	1	Max	1	0	25.13	0.2979
40571	40715	16QAM	1	Max	1	0	24.19	0.2399
Combination 10MHz+20MHz (50RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40526	40670	QPSK	1	Max	1	0	25.04	0.2917
40526	40670	16QAM	1	Max	1	0	24.08	0.2339
Combination 15MHz+10MHz (75RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40571	40691	QPSK	1	Max	1	0	25.11	0.2965
40571	40691	16QAM	1	Max	1	0	24.09	0.2344



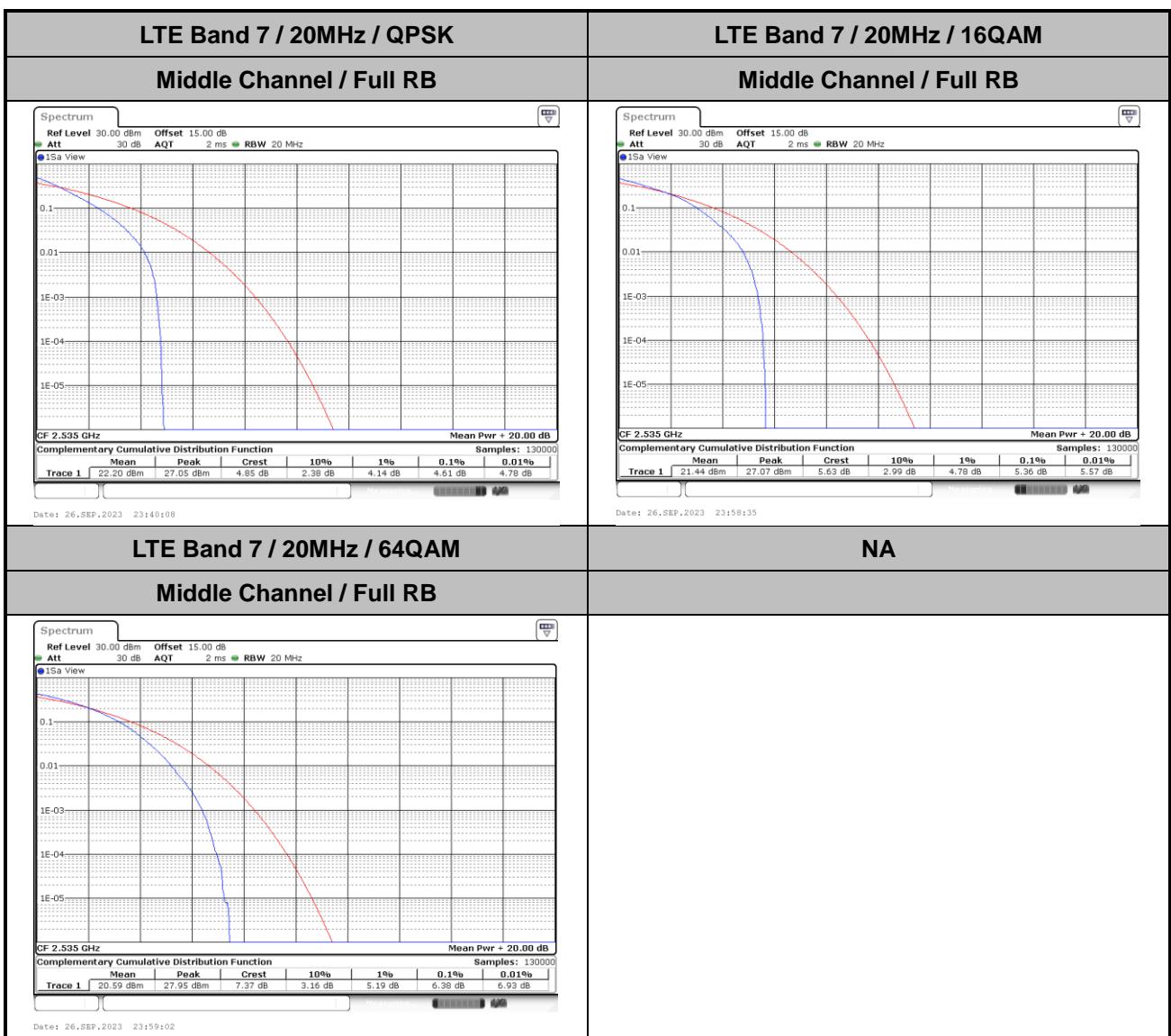
Combination 10MHz+15MHz (50RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40549	40669	QPSK	1	Max	1	0	25.07	0.2938
40549	40669	16QAM	1	Max	1	0	24.13	0.2366
Combination 20MHz+5MHz (100RB+25RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40595	40712	QPSK	1	Max	1	0	25.23	0.3048
40595	40712	16QAM	1	Max	1	0	24.19	0.2399
Combination 5MHz+20MHz (25RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	EIRP(W)
			RB Size	RB offset	RB Size	RB offset		
40528	40645	QPSK	1	Max	1	0	25.16	0.2999
40528	40645	16QAM	1	Max	1	0	24.26	0.2438



LTE Band 7 (Main PA)

Peak-to-Average Ratio

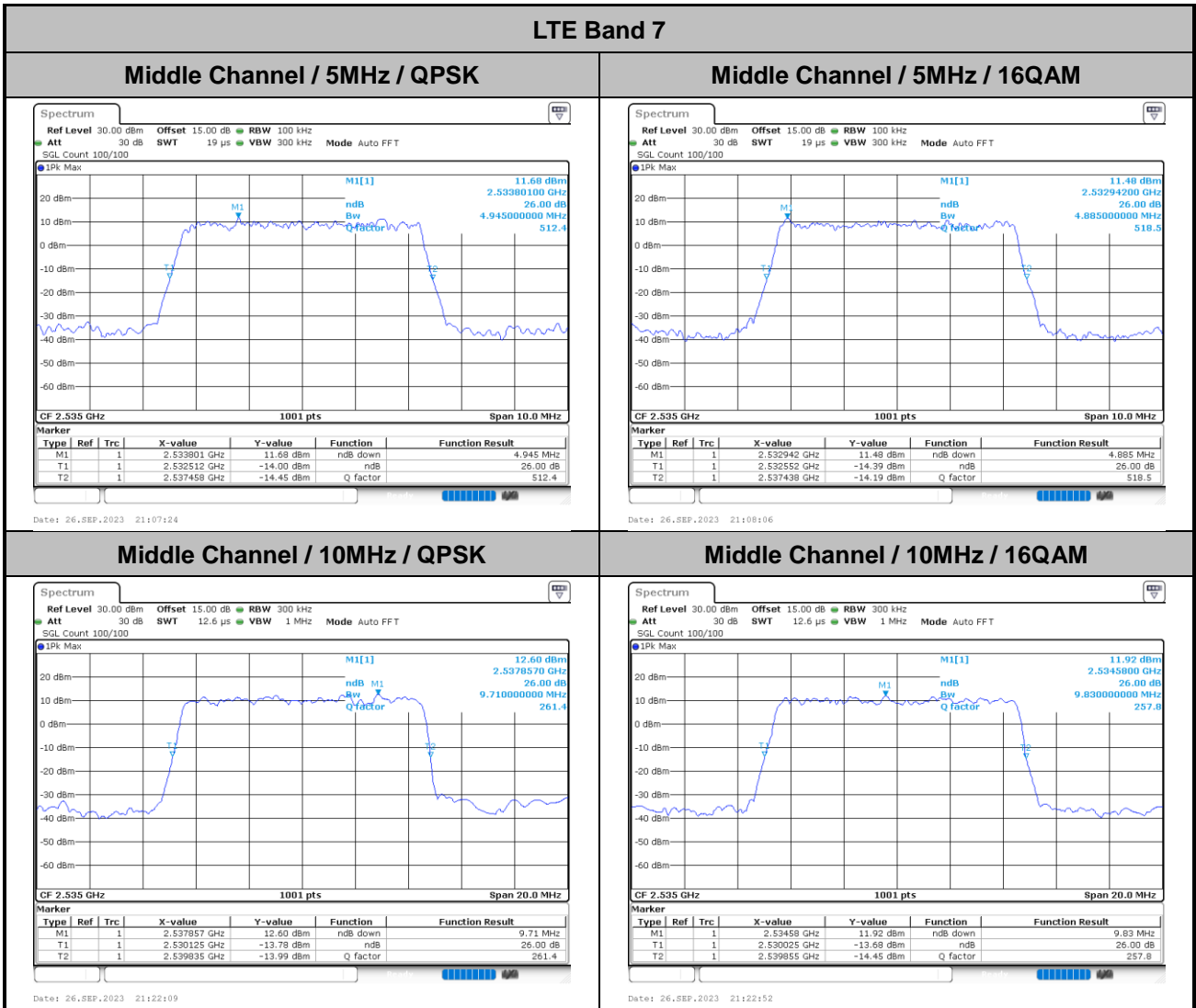
Mode	LTE Band 7 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.61	5.36	6.38	PASS





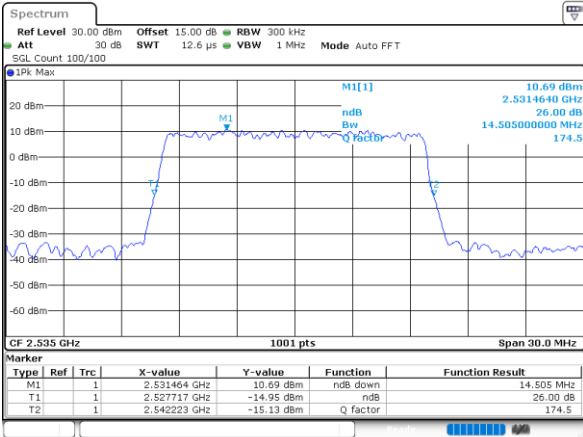
26dB Bandwidth

Mode	LTE Band 7 : 26dB BW(MHz)											
BW	-			5MHz		10MHz		15MHz		20MHz		
Mod.	--	-	--	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.95	4.89	9.71	9.83	14.51	14.33	19.14	19.02



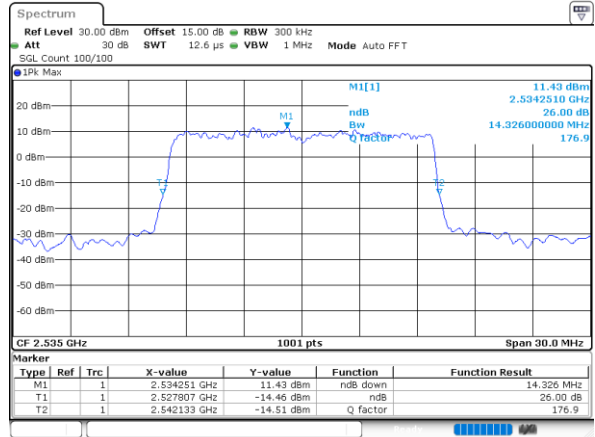


Middle Channel / 15MHz / QPSK



Date: 26_SEP.2023 21:36:56

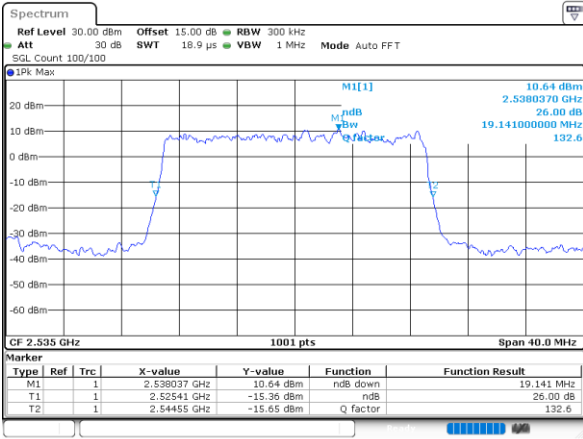
Middle Channel / 15MHz / 16QAM



Date: 26_SEP.2023 21:37:19

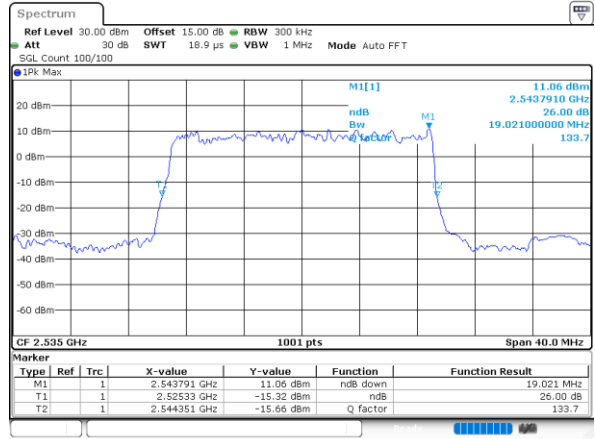
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 26_SEP.2023 21:51:43

Middle Channel / 20MHz / 16QAM

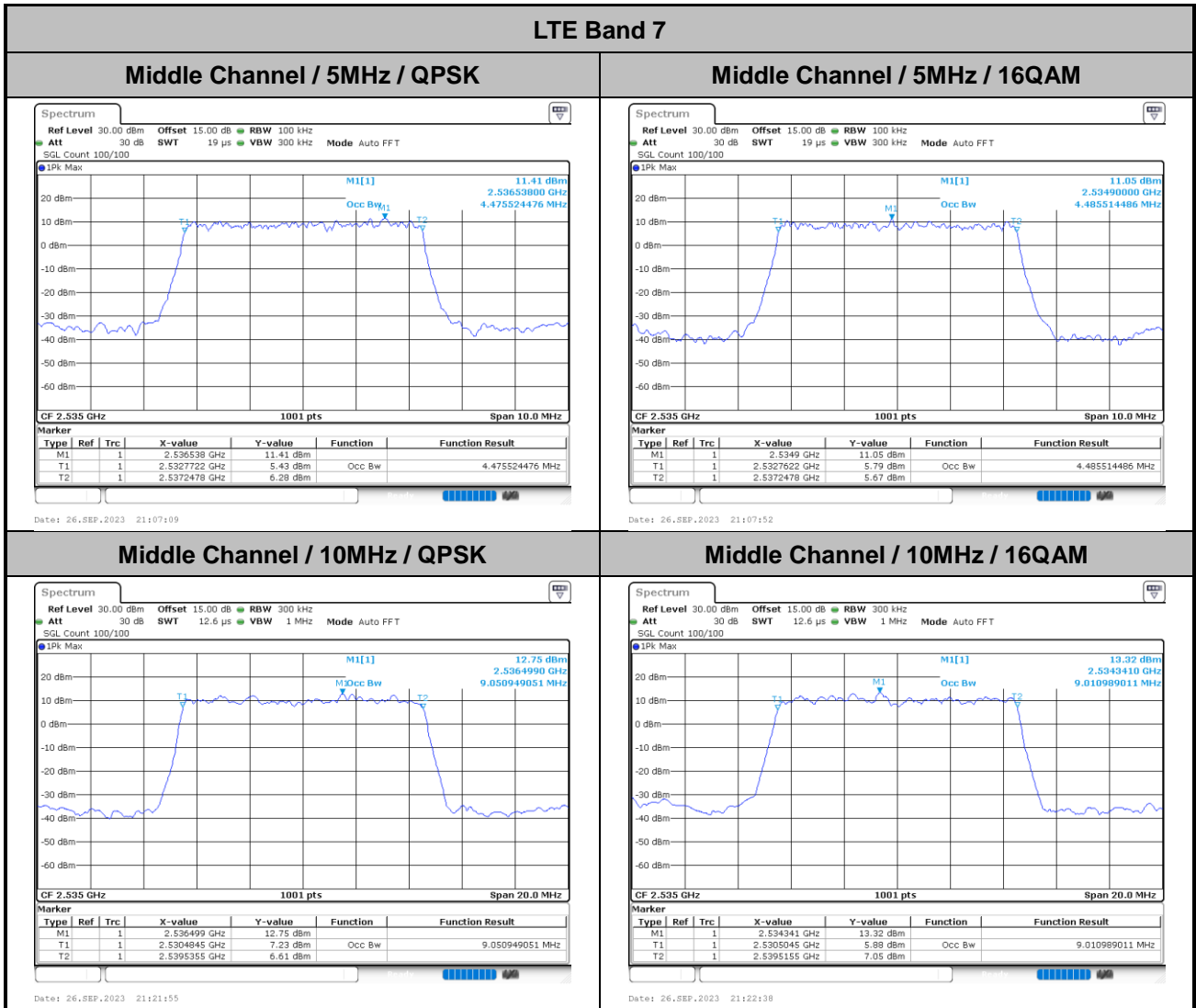


Date: 26_SEP.2023 21:52:26



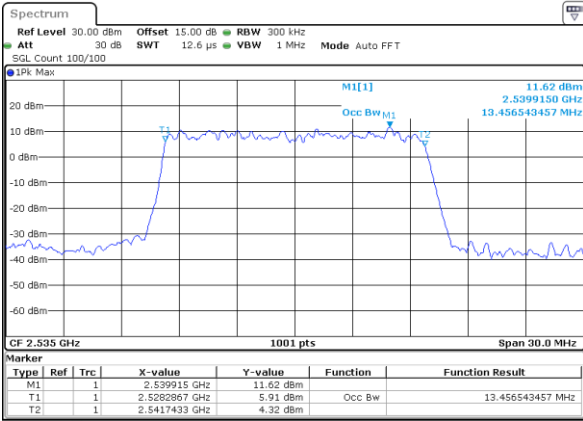
Occupied Bandwidth

Mode	LTE Band 7 : 99%OBW(MHz)											
BW	-			5MHz		10MHz		15MHz		20MHz		
Mod.	--	-	--	-	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.48	4.49	9.05	9.01	13.46	13.49	17.94	17.94



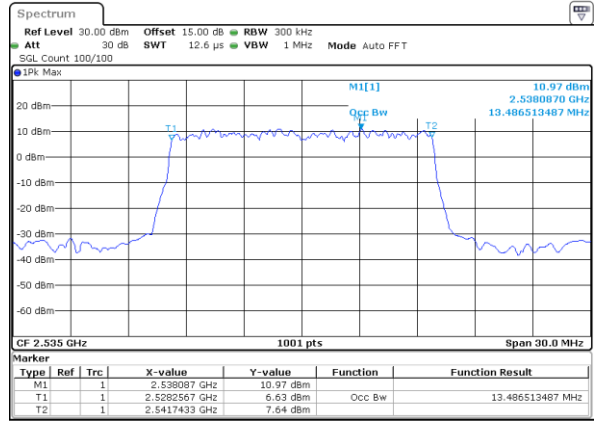


Middle Channel / 15MHz / QPSK



Date: 26_SEP.2023 21:36:42

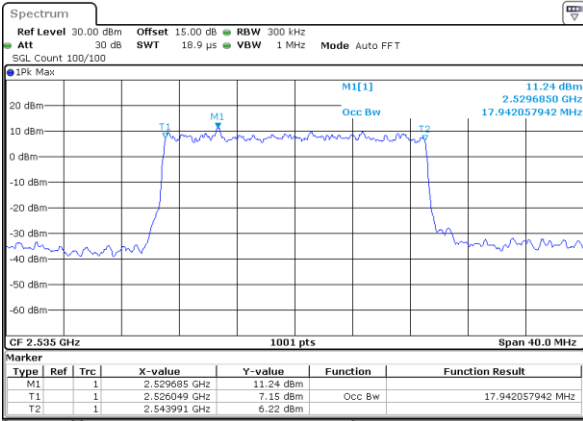
Middle Channel / 15MHz / 16QAM



Date: 26_SEP.2023 21:37:25

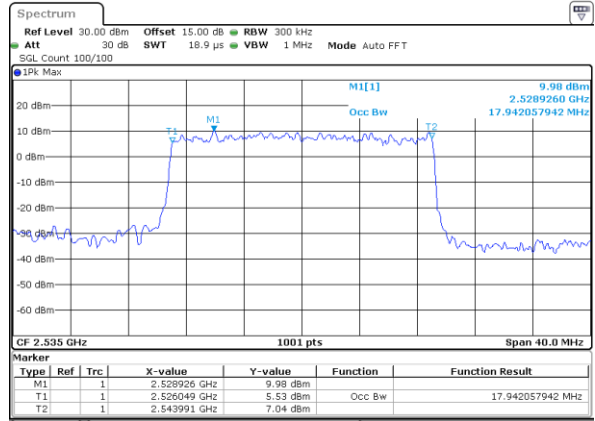
LTE Band 7

Middle Channel / 20MHz / QPSK



Date: 26_SEP.2023 21:51:29

Middle Channel / 20MHz / 16QAM



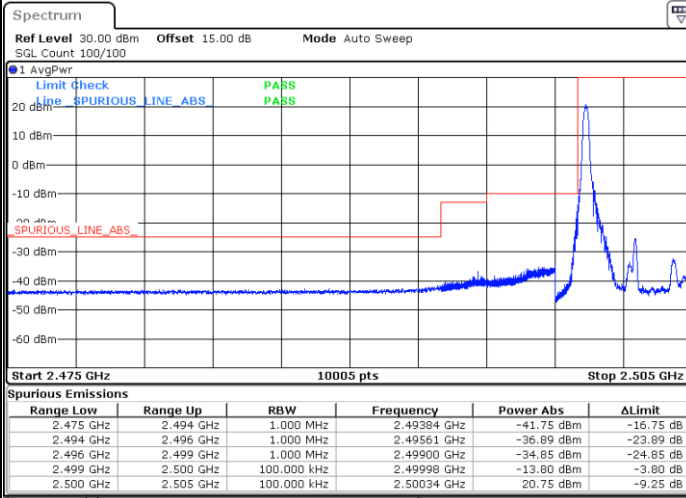
Date: 26_SEP.2023 21:52:12



Conducted Band Edge

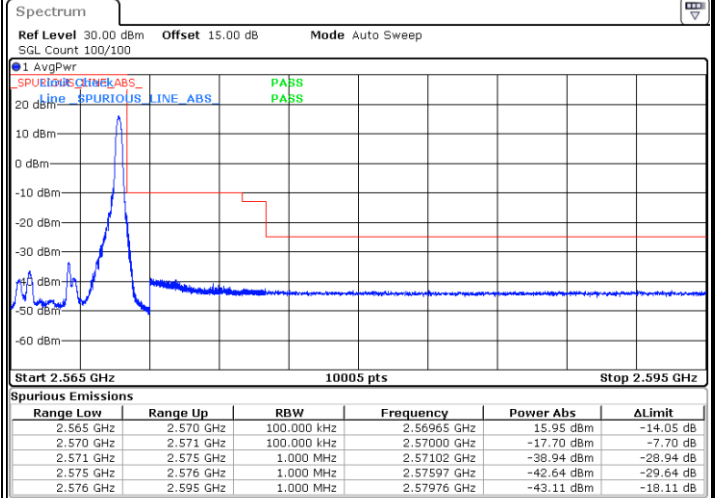
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



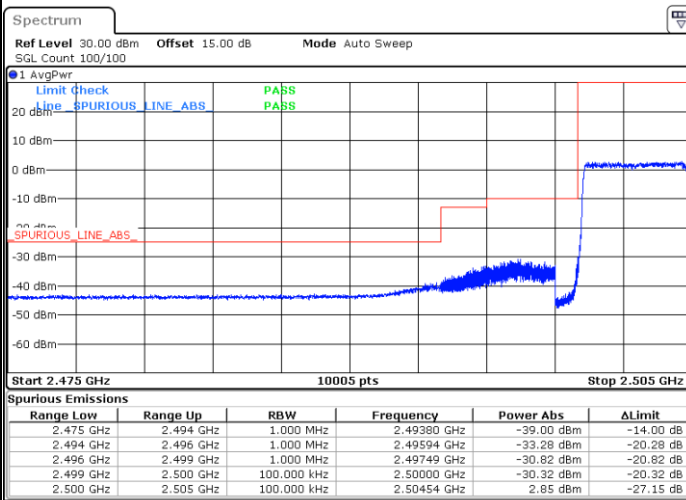
Date: 26.SEP.2023 21:00:16

Highest Band Edge / 1 RB



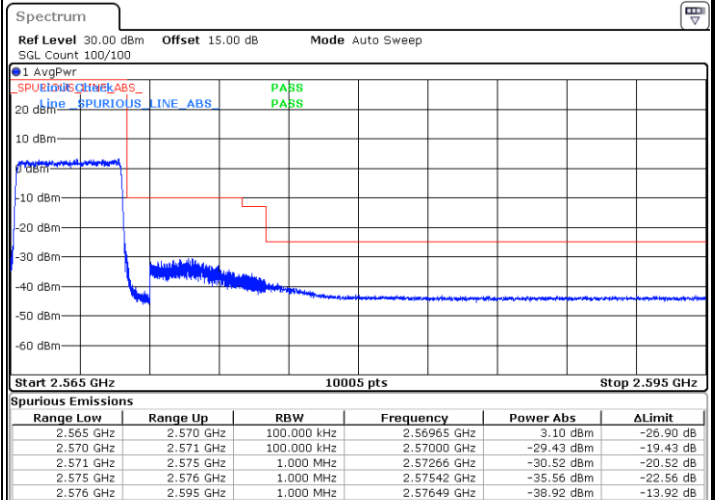
Date: 26.SEP.2023 21:08:55

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:02:45

Highest Band Edge / Full RB

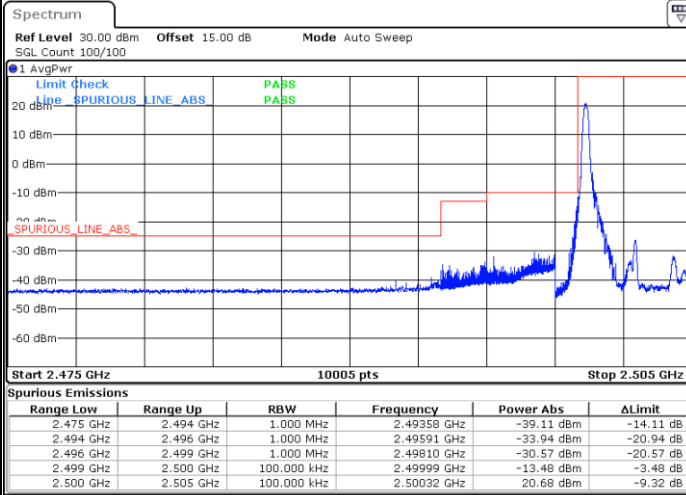


Date: 26.SEP.2023 21:11:22



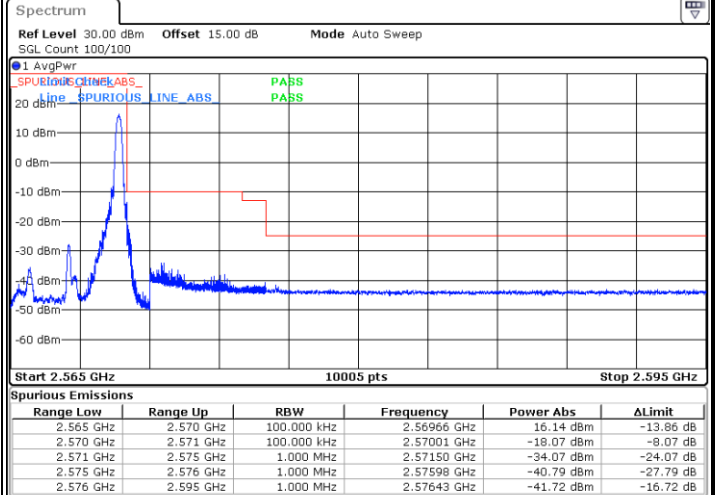
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



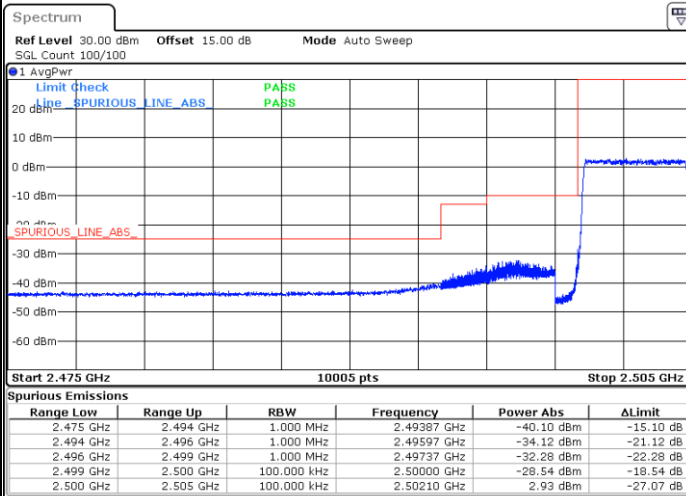
Date: 26.SEP.2023 21:01:05

Highest Band Edge / 1 RB



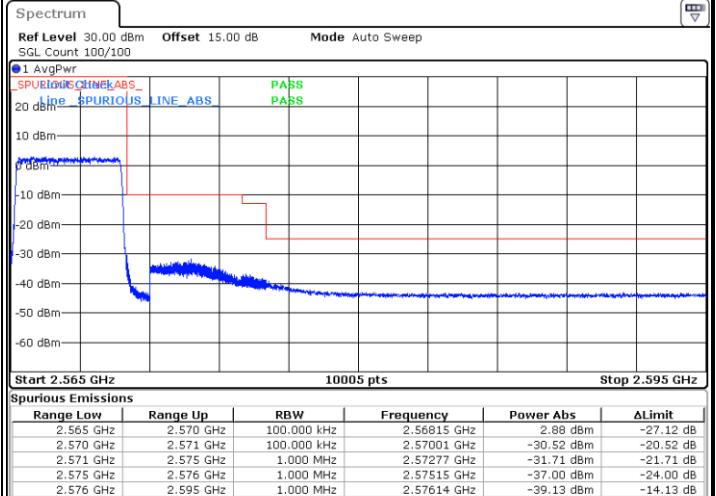
Date: 26.SEP.2023 21:09:44

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:03:34

Highest Band Edge / Full RB

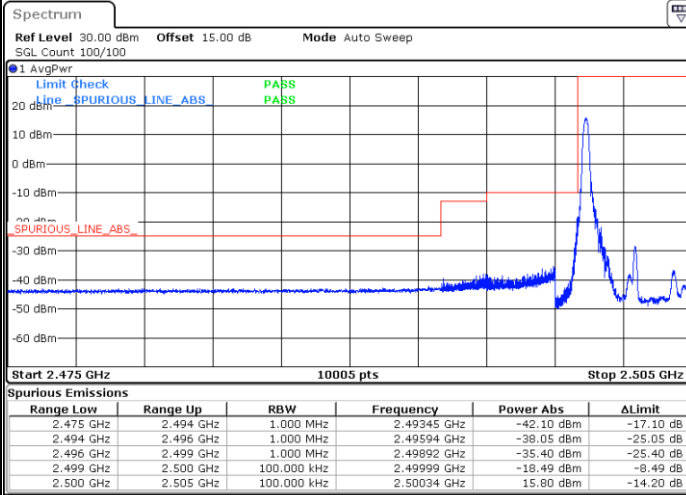


Date: 26.SEP.2023 21:12:12



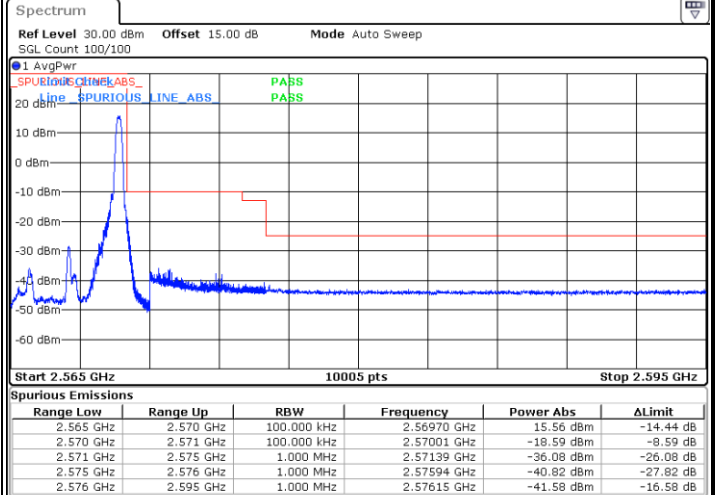
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



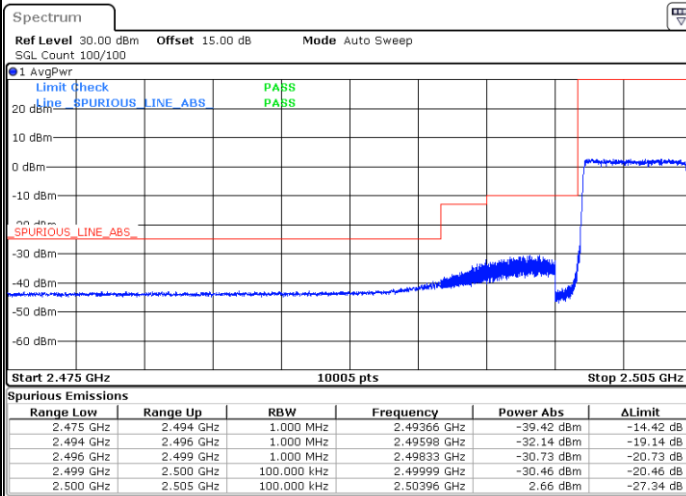
Date: 26.SEP.2023 21:01:55

Highest Band Edge / 1 RB



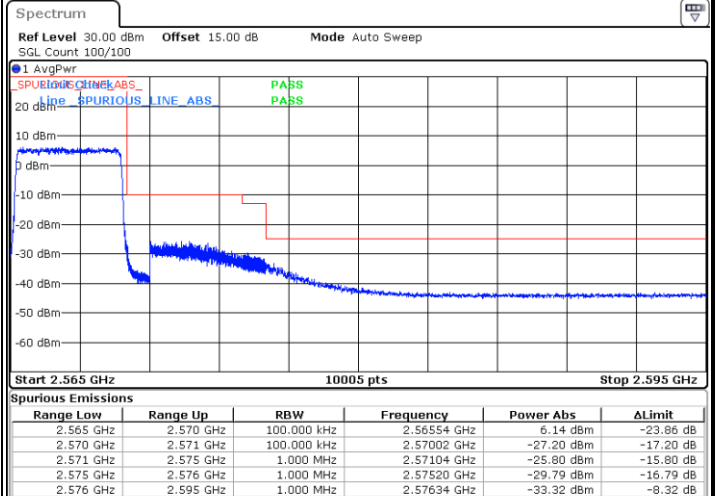
Date: 26.SEP.2023 21:10:33

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:04:24

Highest Band Edge / Full RB

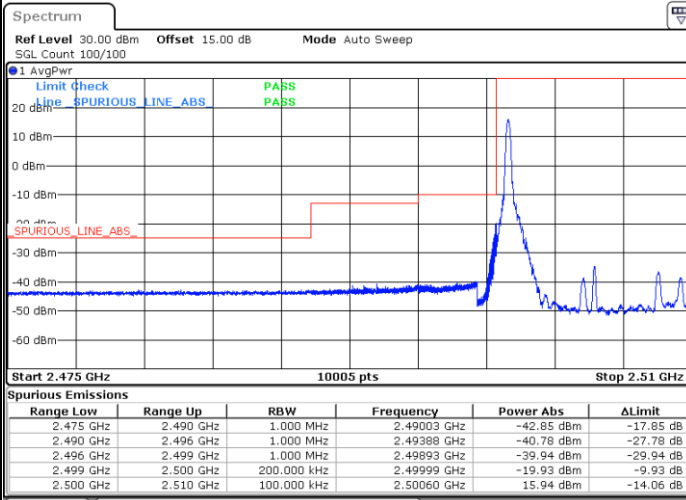


Date: 26.SEP.2023 21:13:01



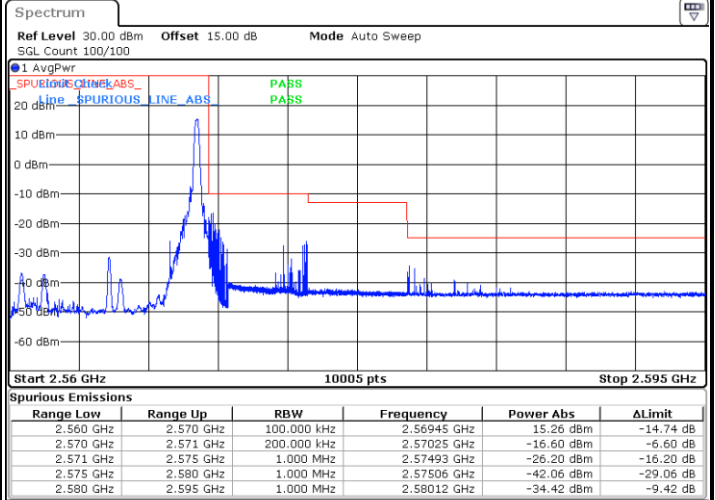
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



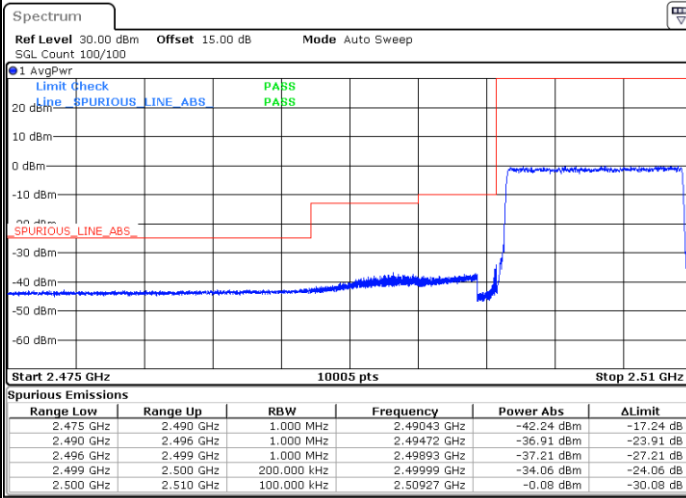
Date: 26.SEP.2023 21:15:03

Highest Band Edge / 1 RB



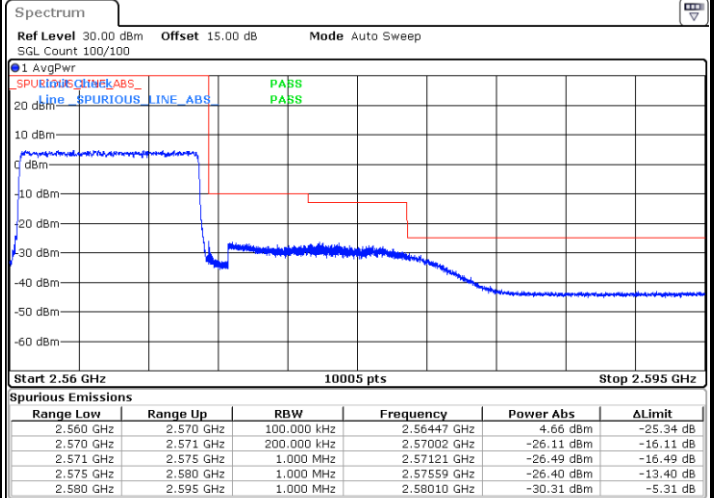
Date: 26.SEP.2023 21:23:40

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:17:31

Highest Band Edge / Full RB

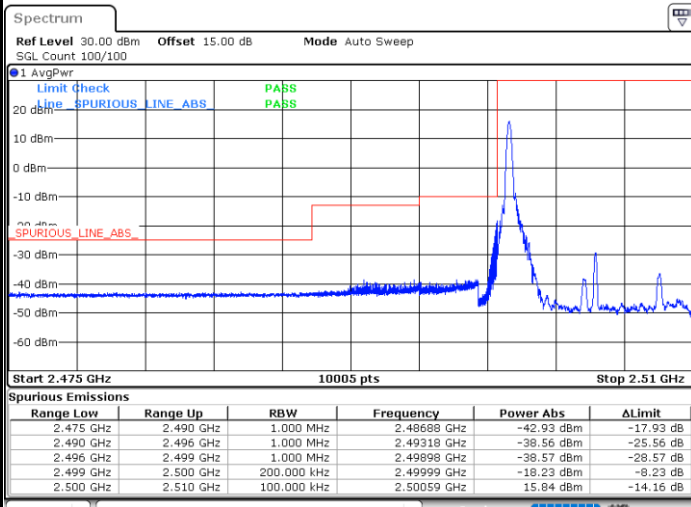


Date: 26.SEP.2023 21:26:08



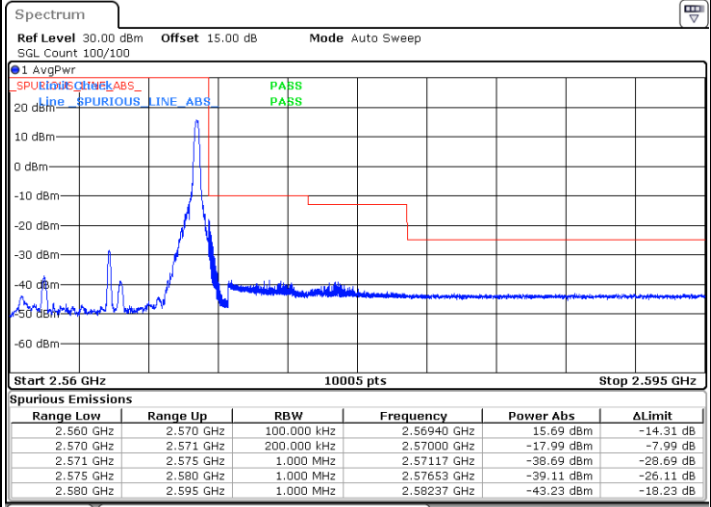
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1RB



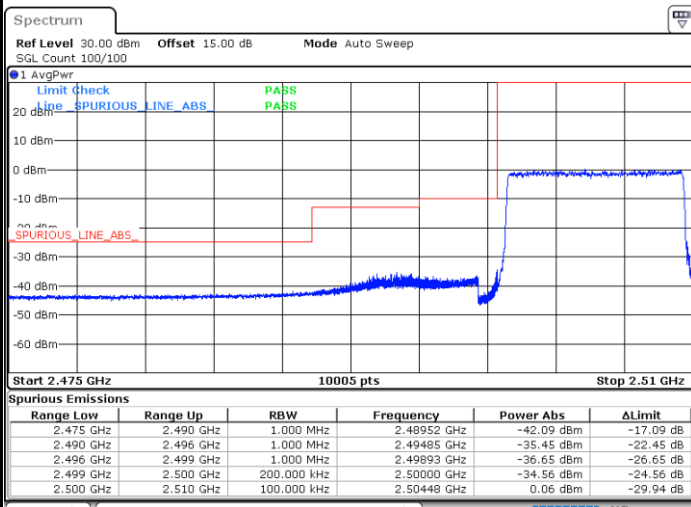
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Highest Band Edge / 1 RB



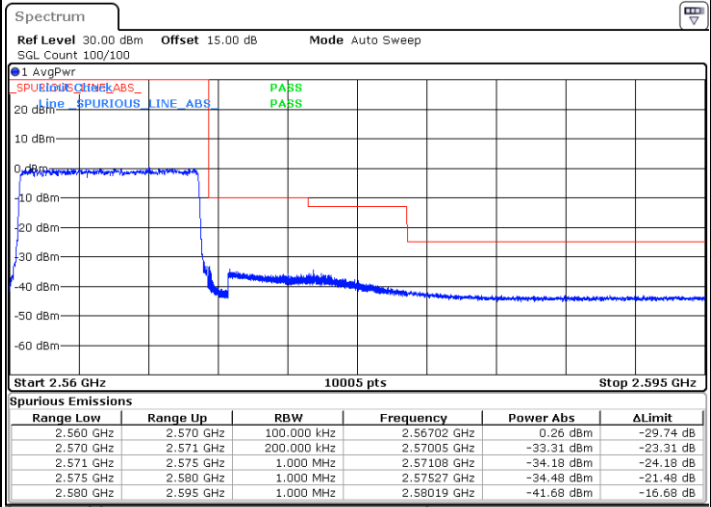
Date: 26.SEP.2023 21:24:29

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:18:20

Highest Band Edge / Full RB

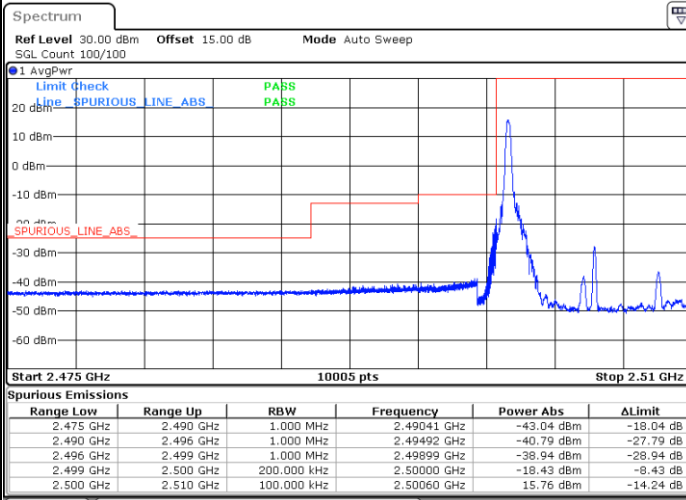


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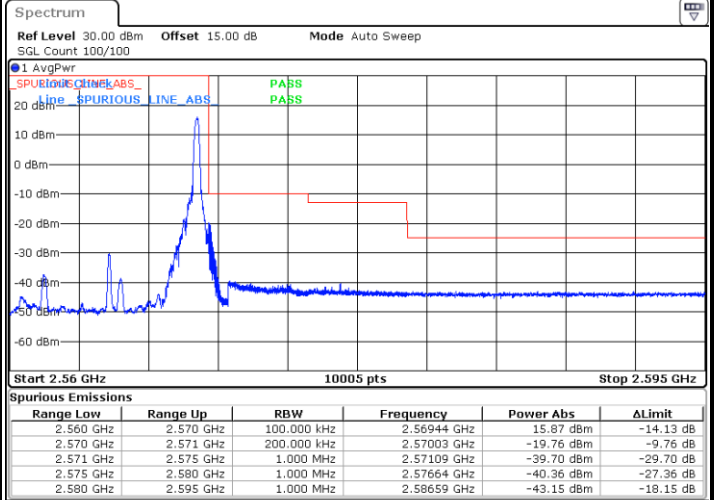
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1RB



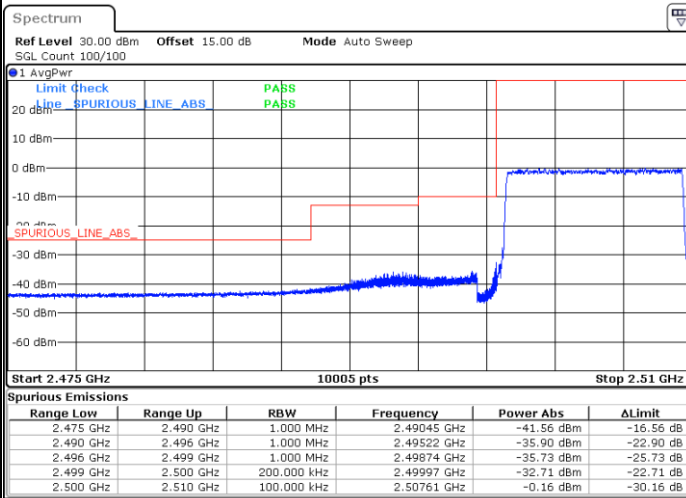
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Highest Band Edge / 1 RB



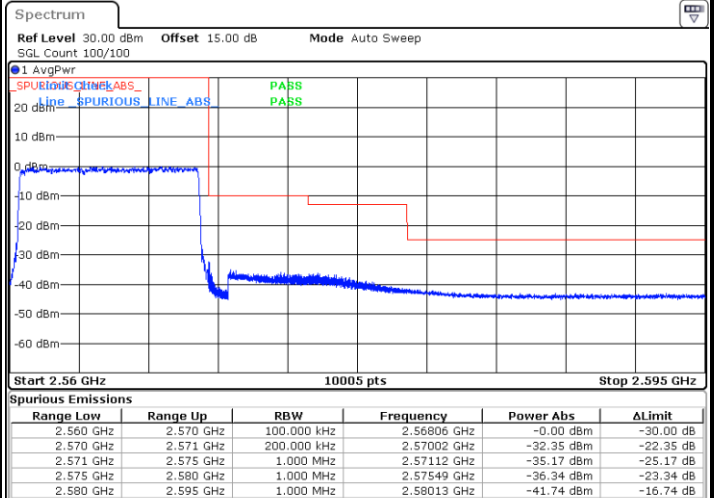
Date: 26.SEP.2023 21:25:18

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:19:10

Highest Band Edge / Full RB

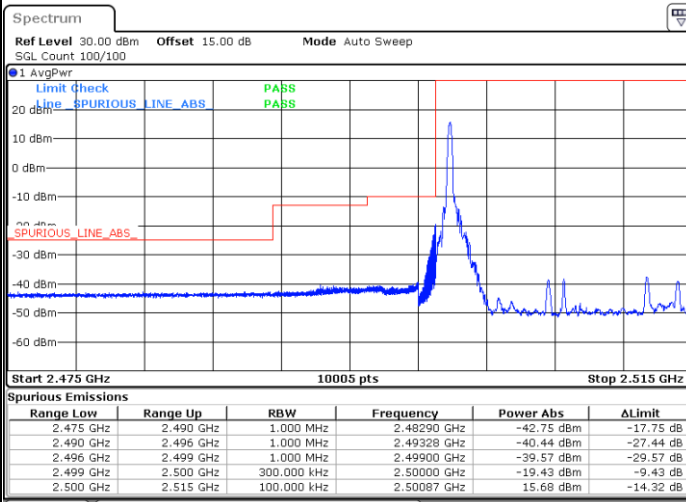


Date: 26.SEP.2023 21:27:46



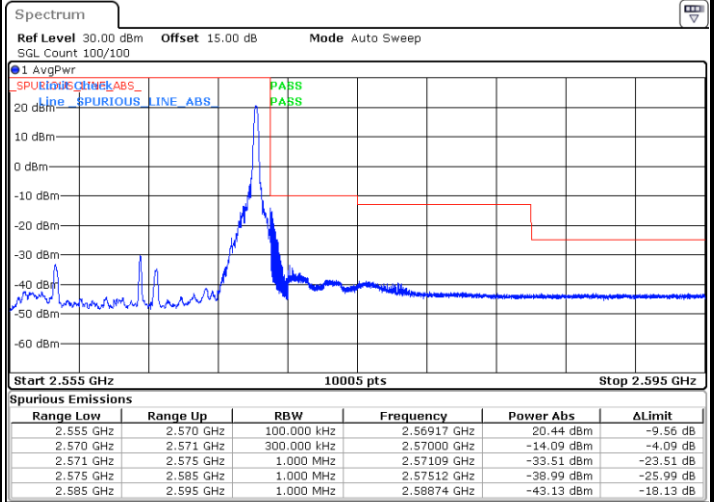
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



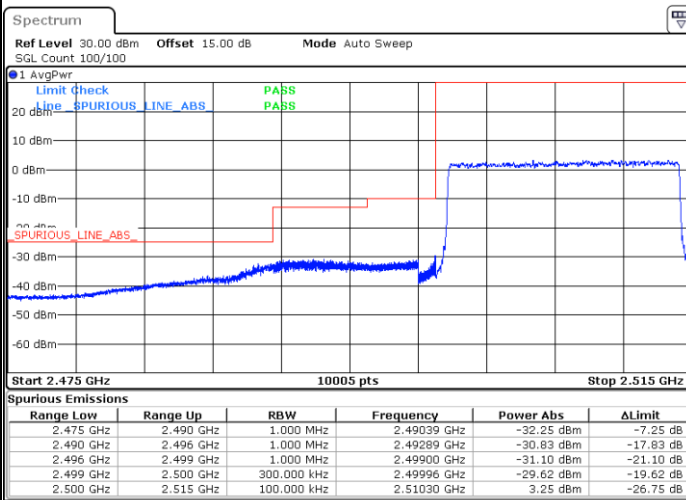
Date: 26.SEP.2023 21:29:49

Highest Band Edge / 1 RB



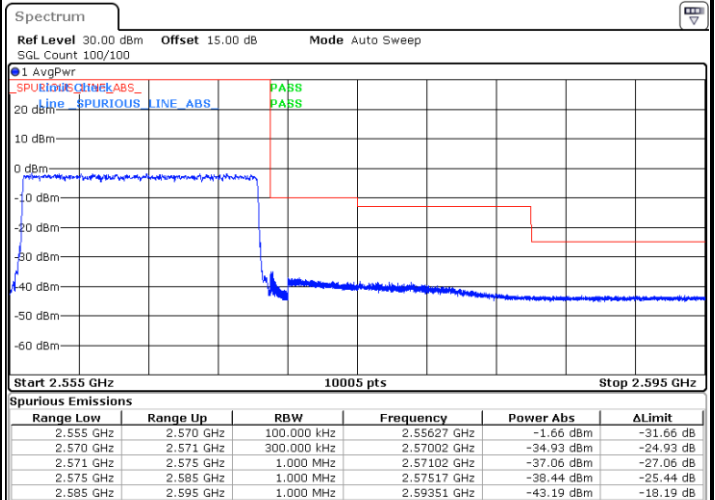
Date: 26.SEP.2023 21:38:27

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:32:18

Highest Band Edge / Full RB

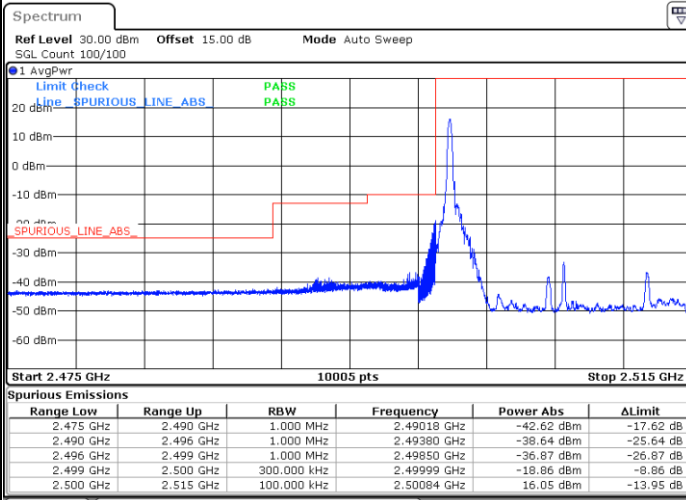


Date: 26.SEP.2023 21:40:56



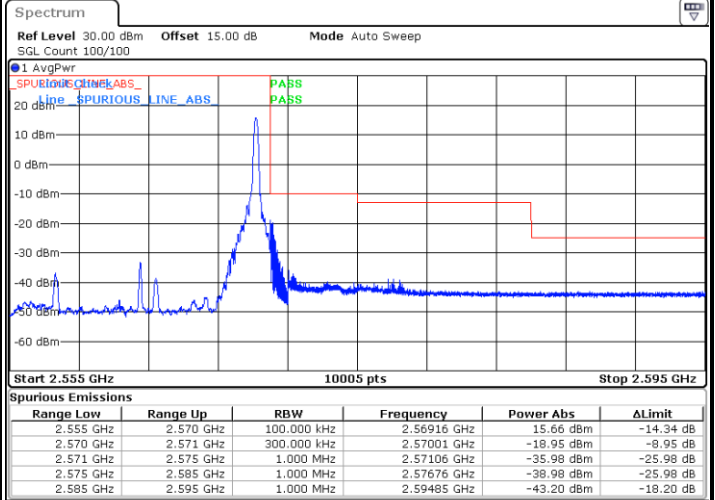
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1RB



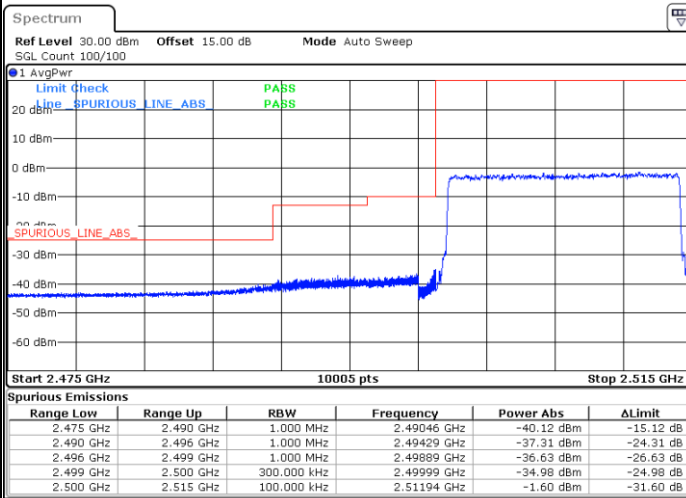
Date: 26.SEP.2023 21:30:38

Highest Band Edge / 1 RB



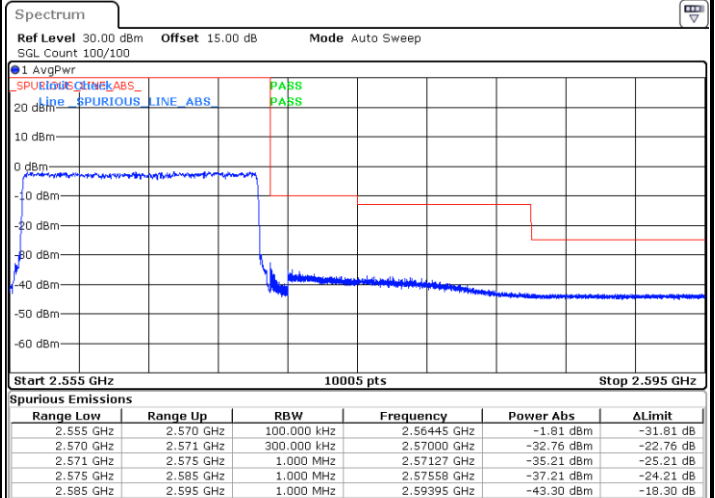
Date: 26.SEP.2023 21:39:16

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:33:07

Highest Band Edge / Full RB

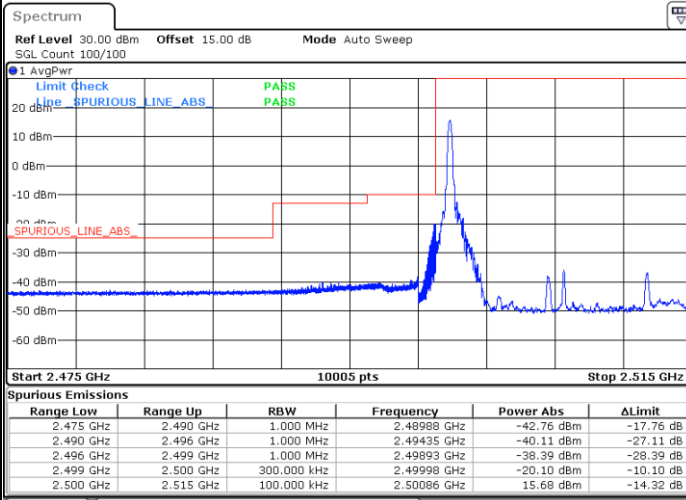


Date: 26.SEP.2023 21:41:45



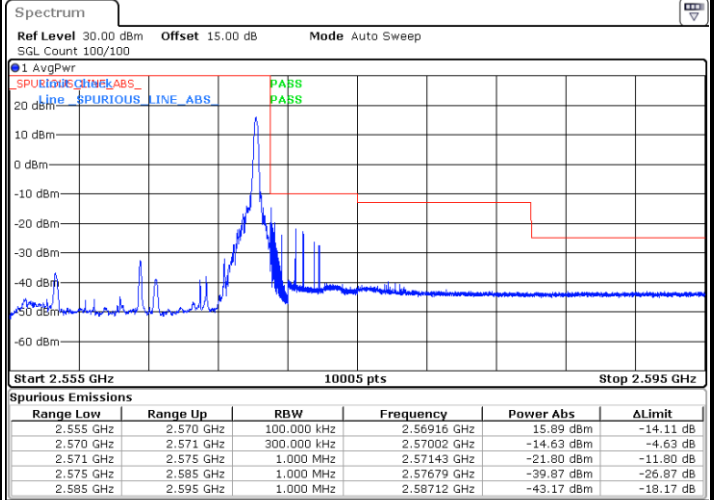
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1RB



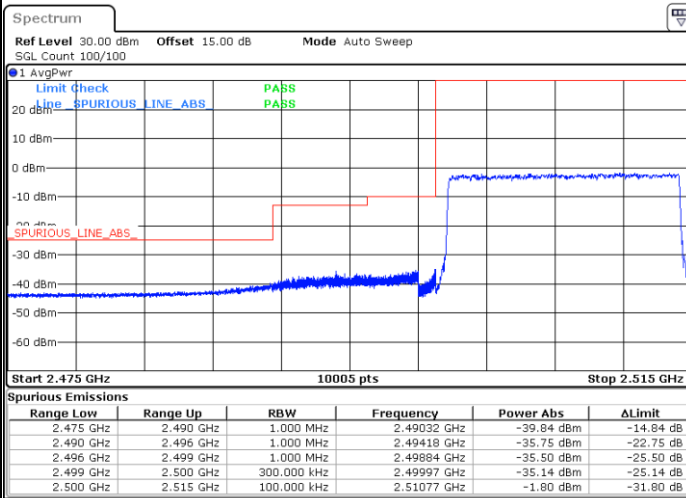
Date: 26.SEP.2023 21:31:28

Highest Band Edge / 1 RB



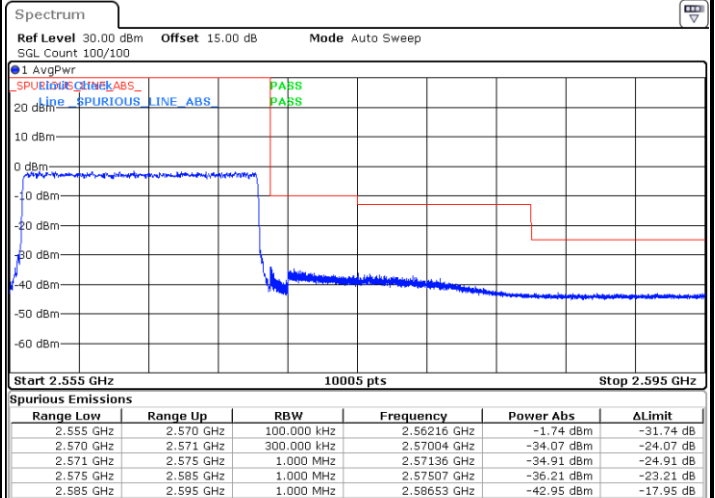
Date: 26.SEP.2023 21:40:06

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:33:57

Highest Band Edge / Full RB

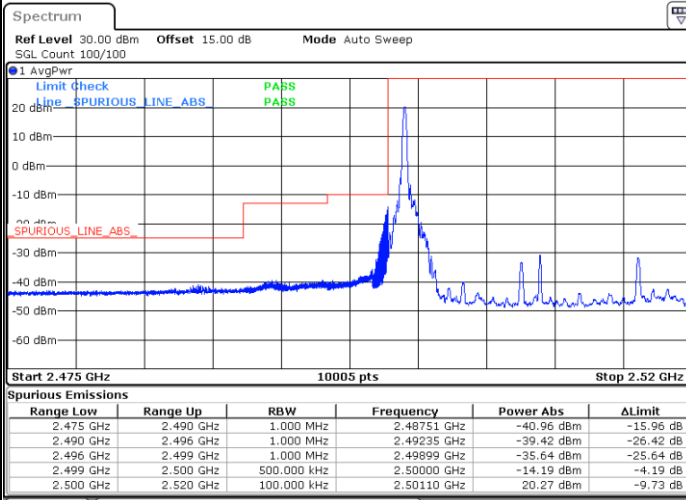


Date: 26.SEP.2023 21:42:34



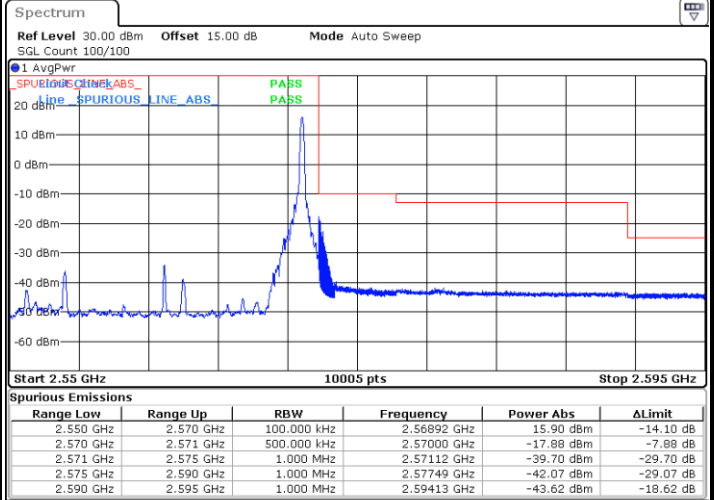
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



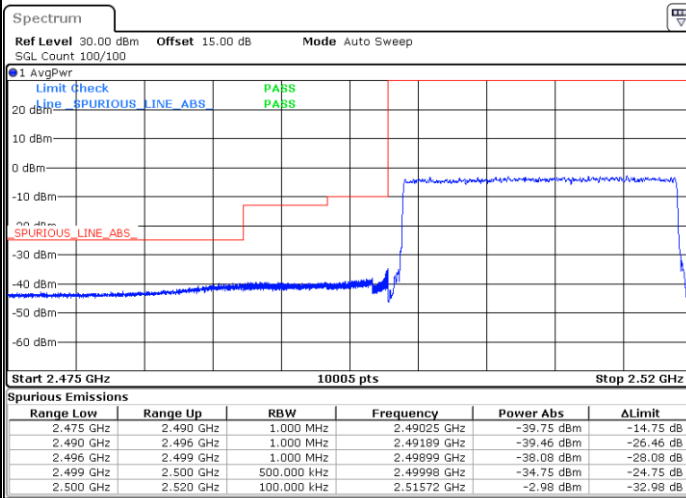
Date: 26.SEP.2023 21:44:37

Highest Band Edge / 1 RB



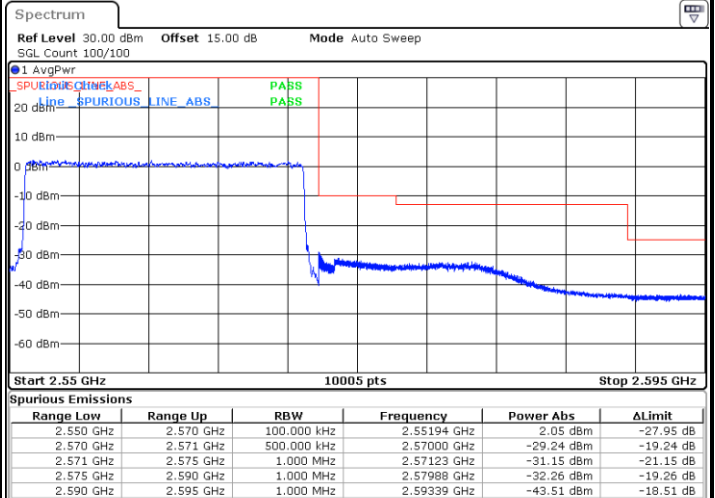
Date: 26.SEP.2023 21:54:45

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:47:05

Highest Band Edge / Full RB

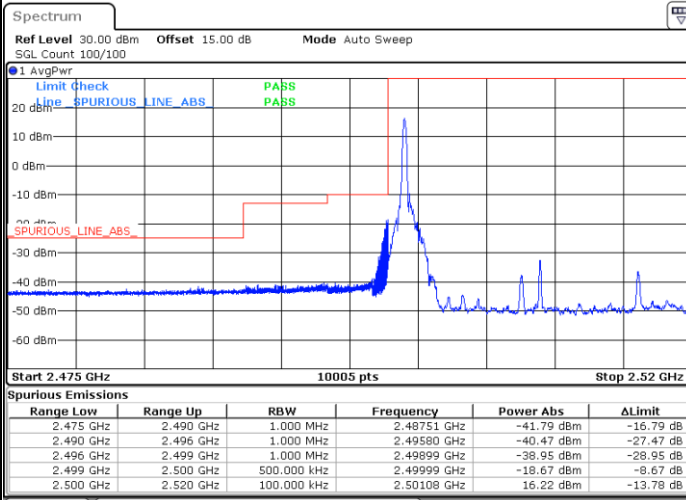


Date: 26.SEP.2023 21:57:13



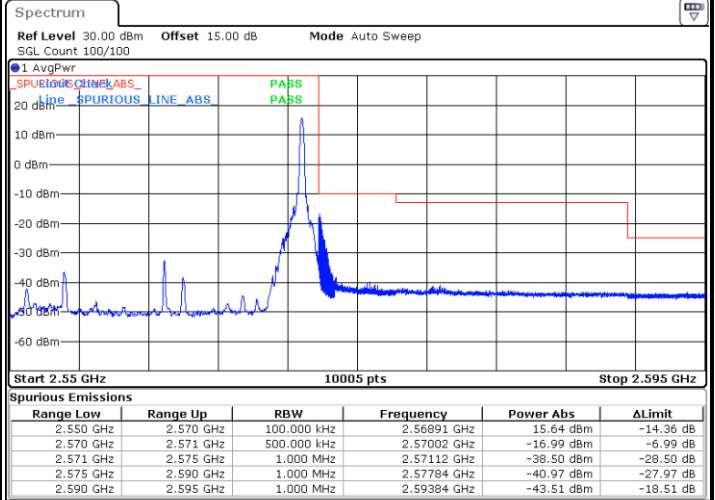
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1RB



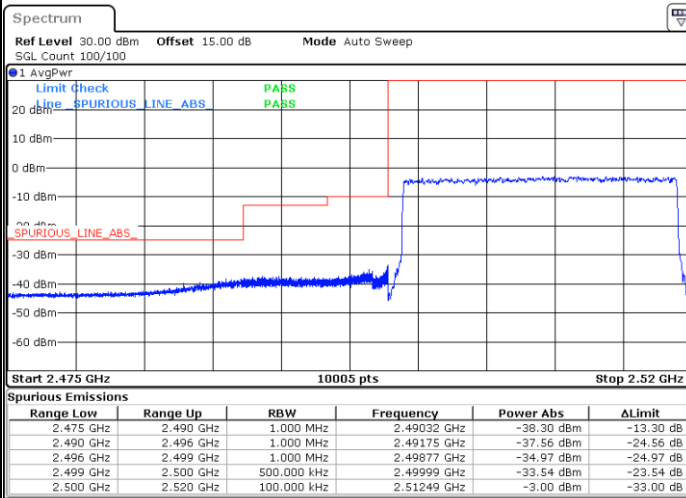
Date: 26.SEP.2023 21:45:26

Highest Band Edge / 1 RB



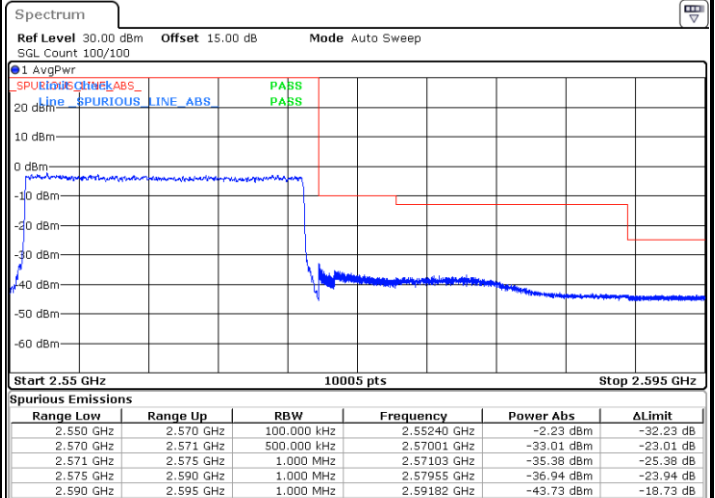
Date: 26.SEP.2023 21:55:34

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:47:55

Highest Band Edge / Full RB

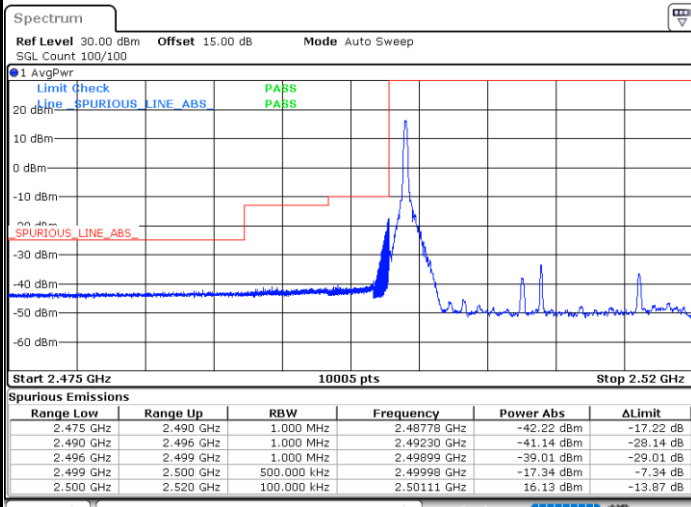


Date: 26.SEP.2023 21:58:02



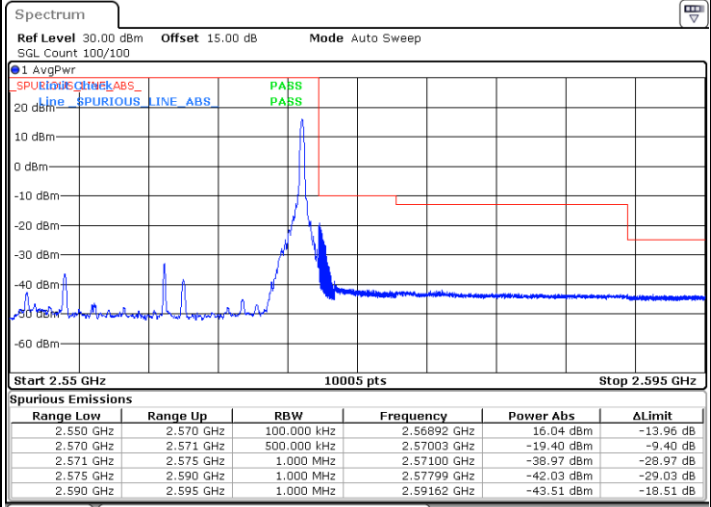
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1RB



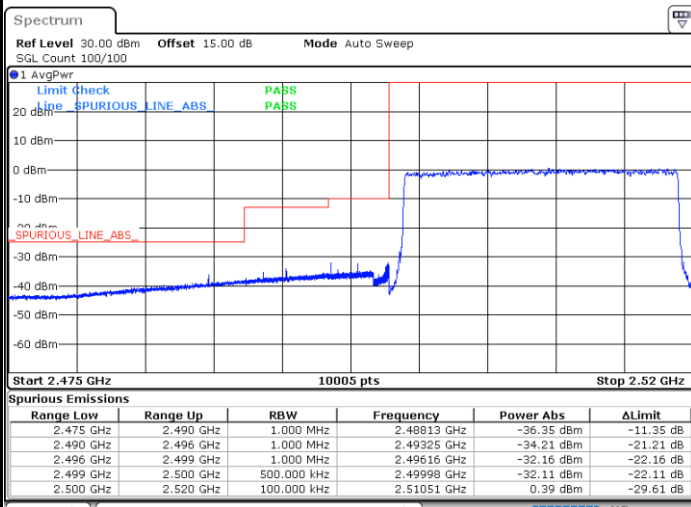
Date: 26.SEP.2023 21:46:15

Highest Band Edge / 1 RB



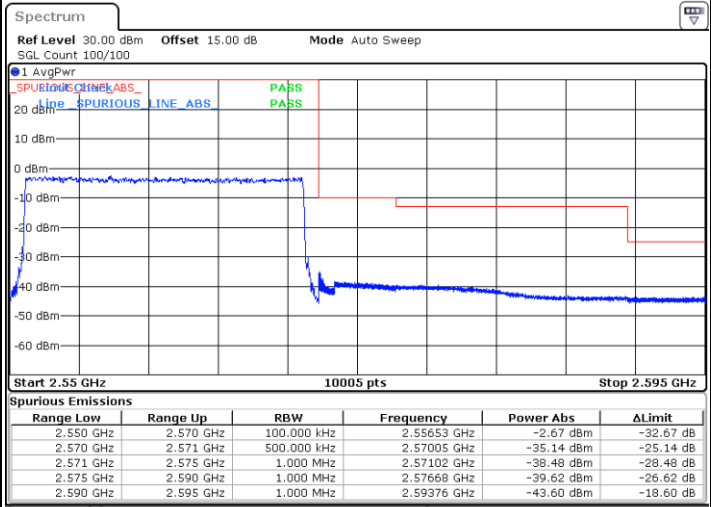
Date: 26.SEP.2023 21:56:23

Lowest Band Edge / Full RB



Date: 26.SEP.2023 21:48:44

Highest Band Edge / Full RB



Date: 26.SEP.2023 21:58:51

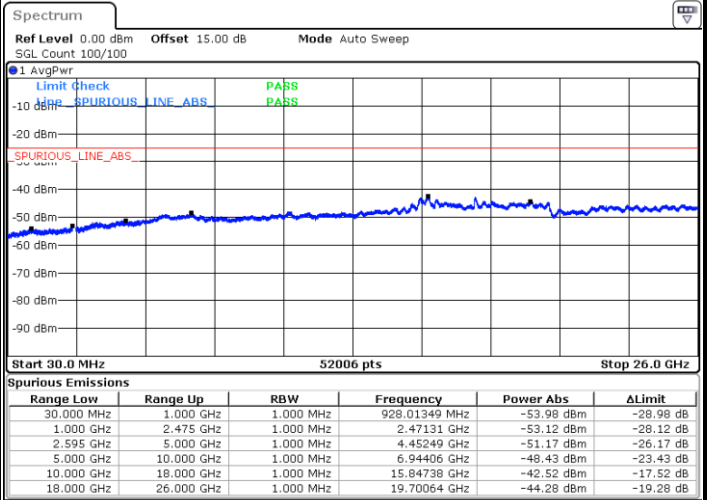
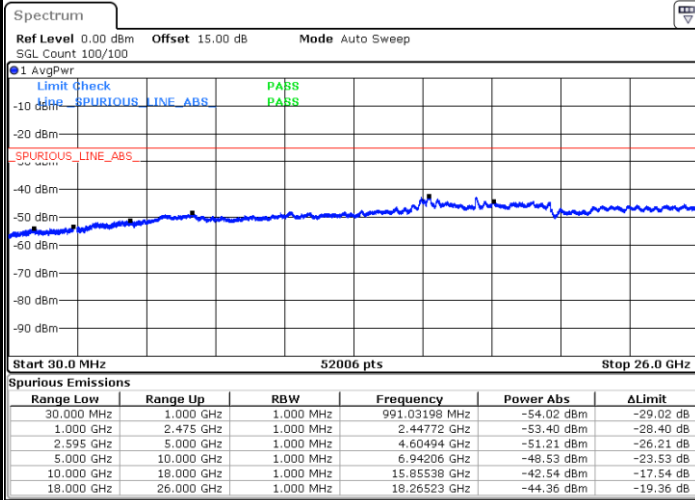


Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

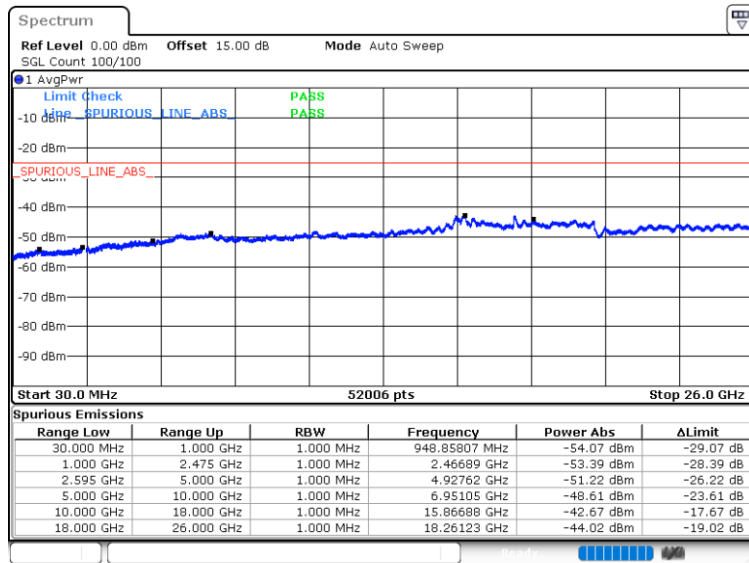
Middle Channel / QPSK



Date: 26.SEP.2023 21:05:32

Date: 26.SEP.2023 21:06:40

Highest Channel / QPSK



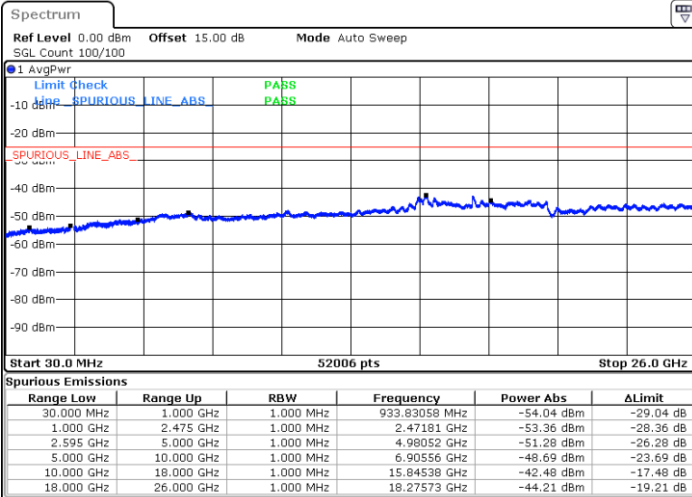
Date: 26.SEP.2023 21:14:09



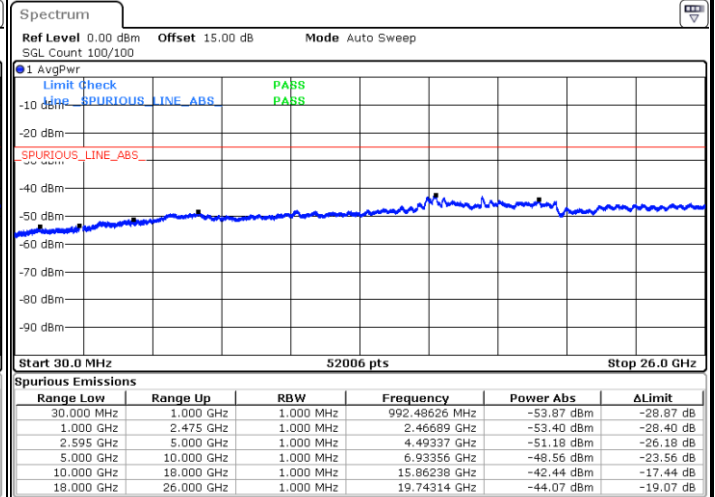
LTE Band 7 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK

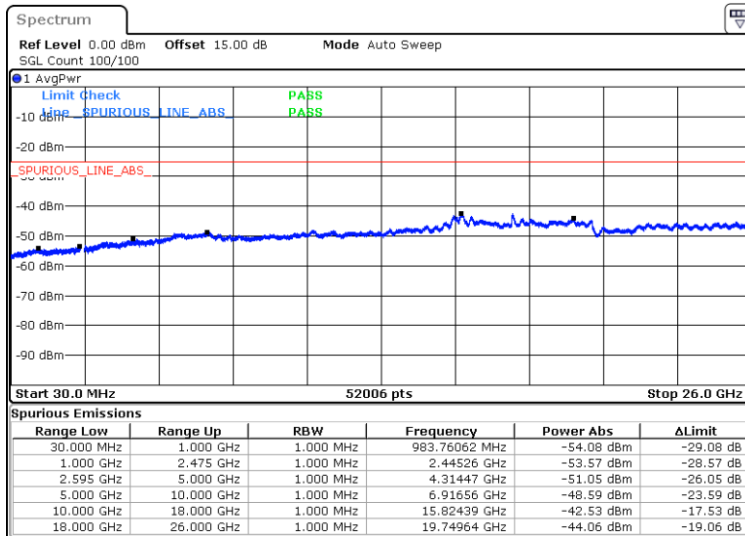


Date: 26.SEP.2023 21:20:17



Date: 26.SEP.2023 21:21:25

Highest Channel / QPSK



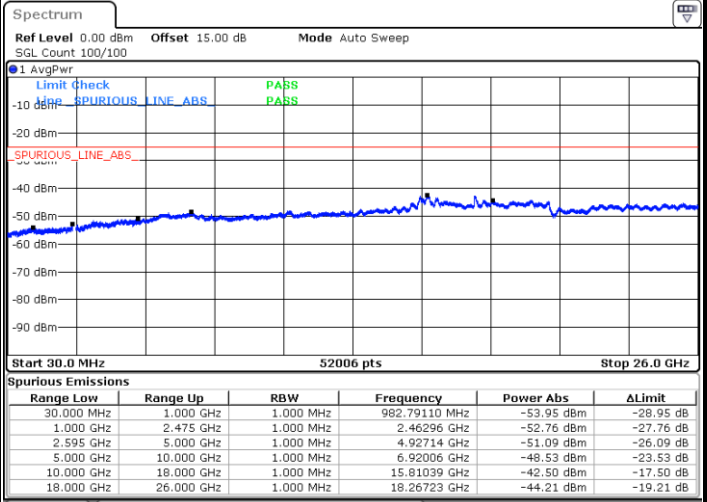
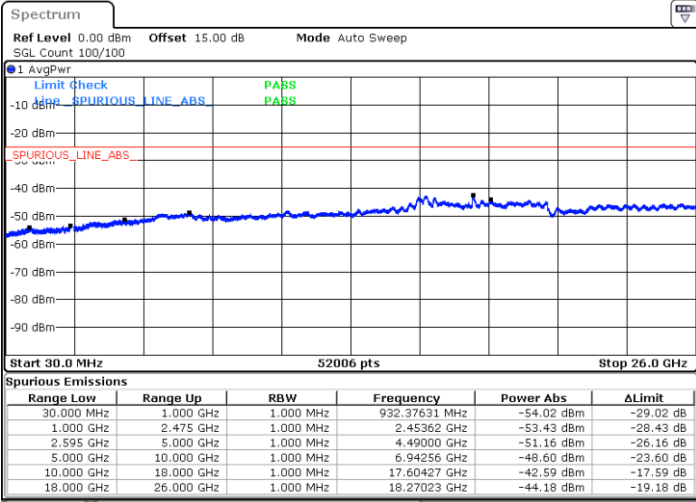
Date: 26.SEP.2023 21:28:54



LTE Band 7 / 15MHz

Lowest Channel / QPSK

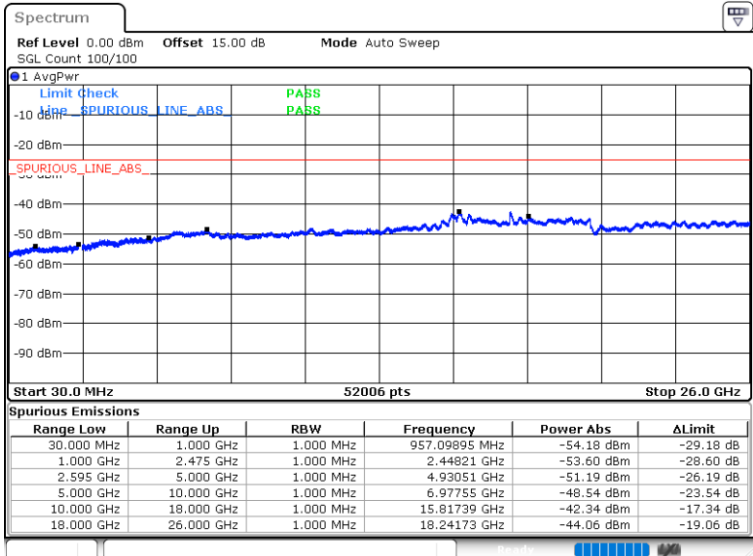
Middle Channel / QPSK



Date: 26.SEP.2023 21:35:05

Date: 26.SEP.2023 21:36:12

Highest Channel / QPSK



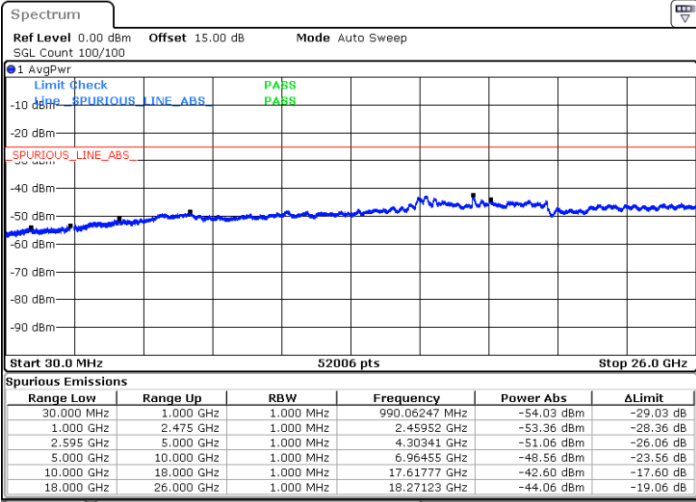
Date: 26.SEP.2023 21:43:42



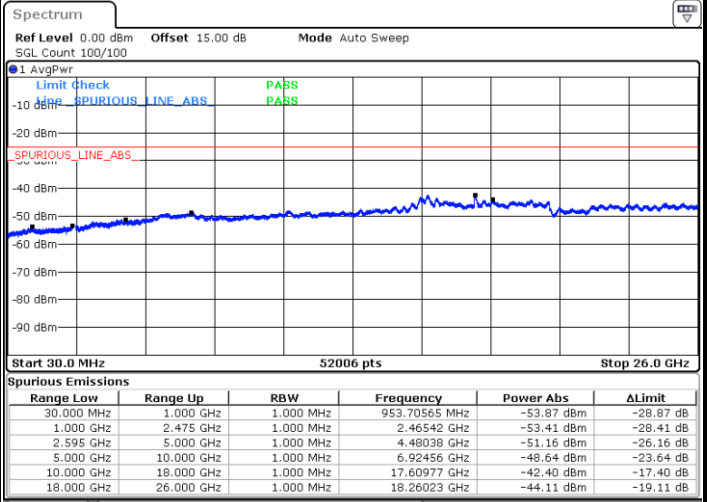
LTE Band 7 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK

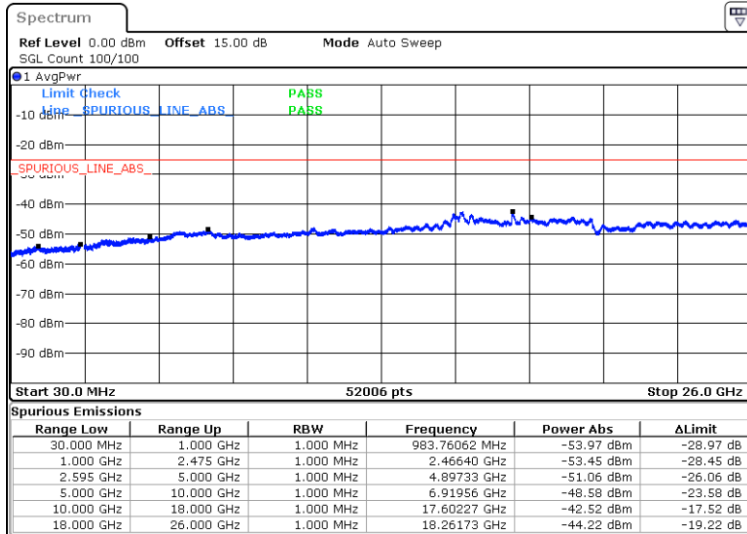


Date: 26.SEP.2023 21:49:52



Date: 26.SEP.2023 21:51:00

Highest Channel / QPSK



Date: 26.SEP.2023 21:59:59



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	0.0004	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.45 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7 (Other 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	4.64	5.36	6.32	PASS

