



FCC RADIO TEST REPORT

FCC ID : PKRISGFW2000
Equipment : 5G CPE Wireless Solution
Brand Name : Inseego
Model Name : FW2000
Marketing Name : FW2000,FW2000e
Applicant : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Manufacturer : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Feb. 23, 2021 and testing was started from Feb. 27, 2021 and completed on Apr. 01, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FG082512-01B	01	Initial issue of report	May 21, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (h)(2)	Conducted Output Power (n7) (n38) (n41)	Pass	
	§22.913 (a)(2)	Effective Radiated Power (n5)	Pass	
	§27.50 (c)(9)	Effective Radiated Power (n12) (n71)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (n2) (n25)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
	-	Equivalent Isotropic Radiated Power (n77) (n78)	Reporting only	
	§27.50 (j)(2)	Equivalent Isotropic Radiated Power Power Density	Pass	
3.3	§24.232 (d) §27.50 (d)(5) 27.50 (j)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h) §27.53 (l)(1)	Conducted Band Edge Measurement (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Band Edge Measurement (n7) (n38) (n41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h) §27.53 (l)(1)	Conducted Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	-
	§2.1051 §27.53 (m)(2)(v)	Conducted Spurious Emission (n7) (n38) (n41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (g) §27.53 (h) §27.53 (l)(1)	Radiated Spurious Emission (n2) (n5) (n12) (n25) (n66) (n71) (n77) (n78)	Pass	Under limit 23.11 dB at 15164.000 MHz
	§2.1051 §27.53 (m)(2)(v)	Radiated Spurious Emission (n7) (n38) (n41)		

Remark:

1. Not required means after assessing, test items are not necessary to carry out.
2. This is a variant report by add 5G NR Band and revise antenna path. All the test cases were performed on original report which can be referred to Sporton Report Number FG082512B.
Based on the original report, the test cases were verified.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Tina Chuang

1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Bluetooth and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Fixed Internal Antenna Bluetooth: Fixed Internal Antenna GPS/Glonass/Galileo/BDS : Fixed Internal Antenna
Antenna Gain	<Ant. 0>: <Main Antenna>: 5G NR n2: 9.1 dBi 5G NR n5: 2.4 dBi 5G NR n7: 10.3dBi 5G NR n12: 3.3 dBi 5G NR n38: 6.0 dBi 5G NR n41: 10.3 dB 5G NR n66: 8.5 dBi 5G NR n71: 3.1 dBi <Aux. Antenna>: 5G NR n2: 10.4 dBi 5G NR n5: 4.1 dBi 5G NR n7: 9.5 dBi 5G NR n12: 2.8 dBi 5G NR n38: 6.0 dBi 5G NR n41: 10.3 dB 5G NR n66: 11.8 dBi 5G NR n71: 3.3 dBi <Ant. 4>: 5G NR n77: 13.3dBi 5G NR n78: 13.3dBi <Ant. 8>: <Main Antenna>: 5G NR n2: 9.1 dBi 5G NR n25: 9.1 dBi 5G NR n41: 10.3 dB 5G NR n66: 8.5 dBi <Aux. Antenna>: 5G NR n2: 10.4 dBi 5G NR n25: 9.5 dBi 5G NR n41: 10.3 dB 5G NR n66: 11.8 dBi

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Richard Qiu
Temperature	22~25°C
Relative Humidity	48~66%

Test Site	Sporton International Inc. Wensan Laboratory.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu
Temperature	20.7~26.5°C
Relative Humidity	58.6~67.7%
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site 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.
3. The TAF code is not including all the FCC KDB listed without accreditation.



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.

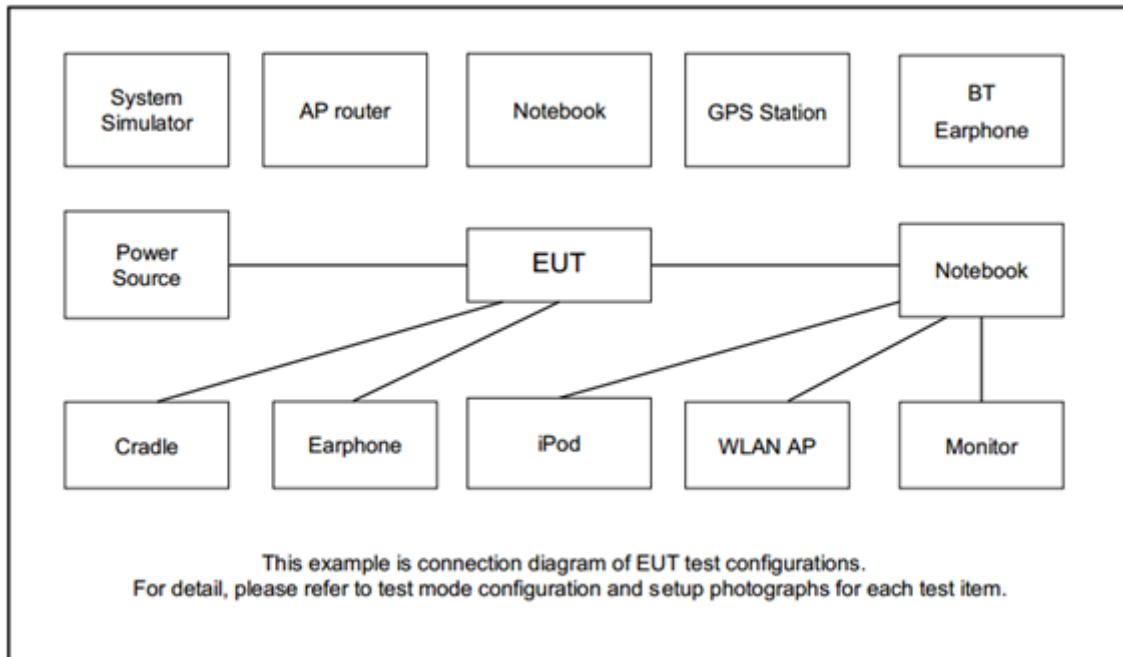
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (<Ant. 0>: X Plane for 5G NR n38A, n71A, Y Plane for 5G NR n2A, n12A, n66A; Z Plane for 5G NR n5A ;<Ant. 4>: Y Plane for 5G NR n77A <Ant. 8>: X Plane for 5G NR n25A, n41A) were recorded in this report.

Test Items	NR Band	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		5	10	15	20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n2	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n5	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n7	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n25	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n38	-			v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n41				v						v	v	v	v	v	v	v			v	v	v
	n66	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n77	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n78	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
EIRP Power Density	n77	-	-	-	-	v	v	v	v	v	v	v	v				v		v	v	v	v
	n78	-	-	-	v	covered by Band n77						v	v				v		v	v	v	v
Peak-to-Average Ratio	n7				v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n38	-			v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n77	-	-	-	-	v						v	v	v	v	v			v		v	
	n78	-	-	-	v							v	v	v	v	v					v	
26dB and 99% Bandwidth	n7	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n38	-			v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n77	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v			v		v	
	n78	-	-	-	v	covered by Band n77						v	v	v	v	v			v		v	
Conducted Band Edge	n7	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v		v	v		v
	n38	-			v	-	-	-	-	-	-	v	v	v	v	v	v		v	v		v
	n77	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
	n78	-	-	-	v	covered by Band n77						v	v	v	v	v	v		v	v		v



Test Items	NR Band	Bandwidth (MHz)										Modulation					RB #			Test Channel		
		5	10	15	20	40	50	60	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	n7	v	v	v	v	-	-	-	-	-	-		v				v			v	v	v
	n38	-			v	-	-	-	-	-	-		v				v			v	v	v
	n77	-	-	-	-	v	v	v	v	v	v		v				v			v	v	v
	n78	-	-	-	v								v				v			v	v	v
Frequency Stability	n7				v	-	-	-	-	-	-	v							v		v	
	n38	-			v	-	-	-	-	-	-	v							v		v	
	n77	-	-	-	-	v						v							v		v	
	n78	-	-	-	v							v							v		v	
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	Max Power					
	n5	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n7	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n12	v	v	v	-	-	-	-	-	-	-	v	v	v	v	v						
	n25	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n38	-			v	-	-	-	-	-	-	v	v	v	v	v						
	n41				v						v	v	v	v	v							
	n66	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n71	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n77	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v						
	n78	-	-	-	v	v	v	v	v	v	v	v	v	v	v	v						
Radiated Spurious Emission	n7	Worst Case																			v	
	n38	Worst Case																		v	v	v
	n77	Worst Case																		v	v	v
	n78	Worst Case																		v	v	v
Remark	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 radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant.																					

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	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 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR Band n2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376000	380000
	Frequency	1860	1880	1900
15	Channel	371500	376000	380500
	Frequency	1857.5	1880	1902.5
10	Channel	371000	376000	381000
	Frequency	1855	1880	1905
5	Channel	370500	376000	381500
	Frequency	1852.5	1880	1907.5

5G NR Band n5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR Band n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5



5G NR Band n12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	141300	141500	141700
	Frequency	706.5	707.5	708.5
10	Channel	140800	141500	142200
	Frequency	704	707.5	711
5	Channel	140300	141500	142700
	Frequency	701.5	707.5	713.5

5G NR Band n25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	372000	376500	381000
	Frequency	1860	1882.5	1905
15	Channel	371500	376500	381500
	Frequency	1857.5	1882.5	1907.5
10	Channel	371000	376500	382000
	Frequency	1855	1882.5	1910
5	Channel	370500	376500	382500
	Frequency	1852.5	1882.5	1912.5

5G NR Band n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610
15	Channel	515500	519000	522500
	Frequency	2577.5	2595	2612.5
10	Channel	515000	519000	523000
	Frequency	2575	2595	2615



5G NR Band n41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	509202	518598	528000
	Frequency	2546.01	2592.99	2640
90	Channel	508200	518598	528996
	Frequency	2541	2592.99	2644.98
80	Channel	507204	518598	529998
	Frequency	2536.02	2592.99	2649.99
60	Channel	505200	518598	531996
	Frequency	2526	2592.99	2659.98
50	Channel	504204	518598	532998
	Frequency	2521.02	2592.99	2664.99
40	Channel	503202	518598	534000
	Frequency	2516.01	2592.99	2670
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99



5G NR Band n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	344000	346500	349000
	Frequency	1720	1732.5	1745
15	Channel	343500	346500	349500
	Frequency	1717.5	1732.5	1747.5
10	Channel	343000	346500	350000
	Frequency	1715	1732.5	1750
5	Channel	342500	346500	350500
	Frequency	1712.5	1732.5	1752.5

5G NR Band n71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	134600	136100	137600
	Frequency	673	680.5	688
15	Channel	134100	136100	138100
	Frequency	670.5	680.5	690.5
10	Channel	133600	136100	138600
	Frequency	668	680.5	693
5	Channel	133100	136100	139100
	Frequency	665.5	680.5	695.5

5G NR Band n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960

5G NR Band n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99

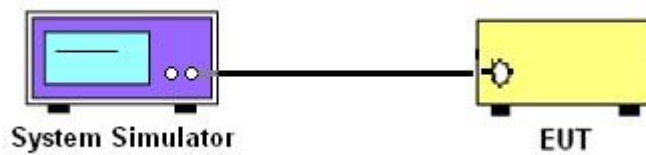
3 Conducted Test Items

3.1 Measuring Instruments

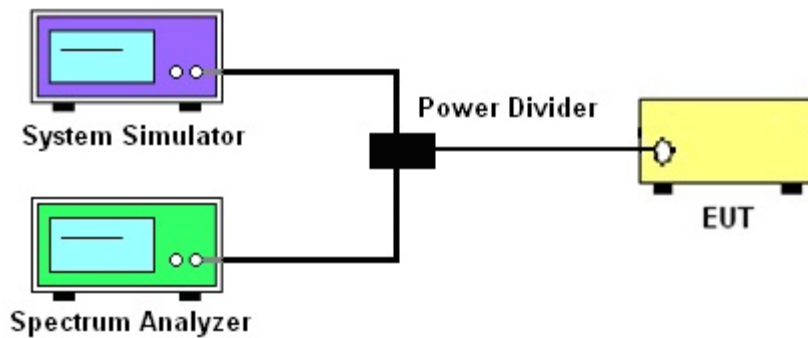
See list of measuring instruments of this test report.

3.1.1 Test Setup

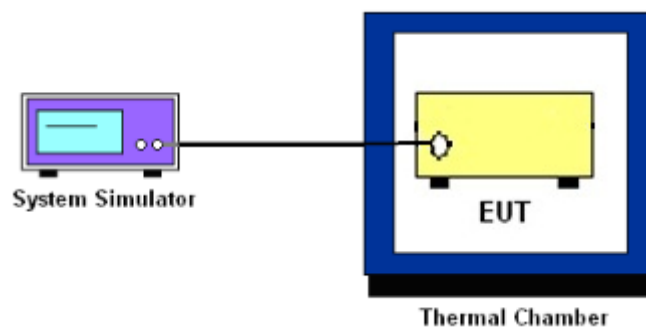
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, EIRP Power Density, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for 5G NR n5

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2, n25

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n66

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

For n7, n38 and n41

27.50(h)(2)

(2) *Mobile and other user stations.* Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

For n77, n78

27.53(j)(2)

(2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 Occupied Bandwidth

3.4.1 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.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(2)(v)

For all fixed digital user stations, the attenuation factor shall be not less than $43 + 10 \log (P)$ dB at the channel edge.

27.53 (l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

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

3.6 Conducted Spurious Emission

3.6.1 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.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

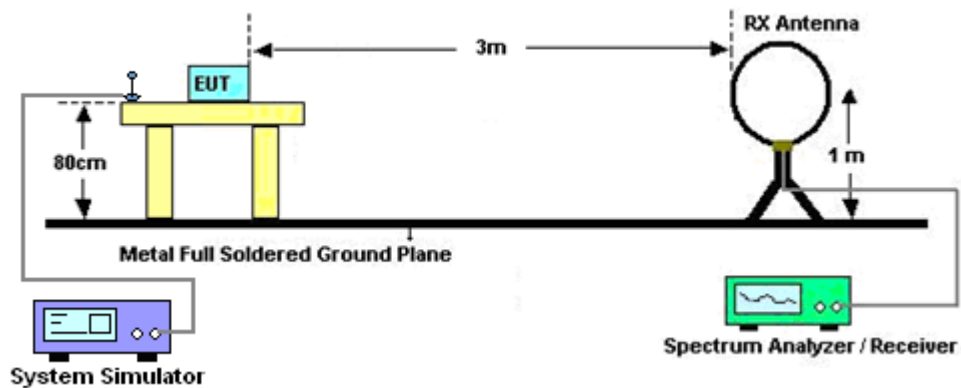
4 Radiated Test Items

4.1 Measuring Instruments

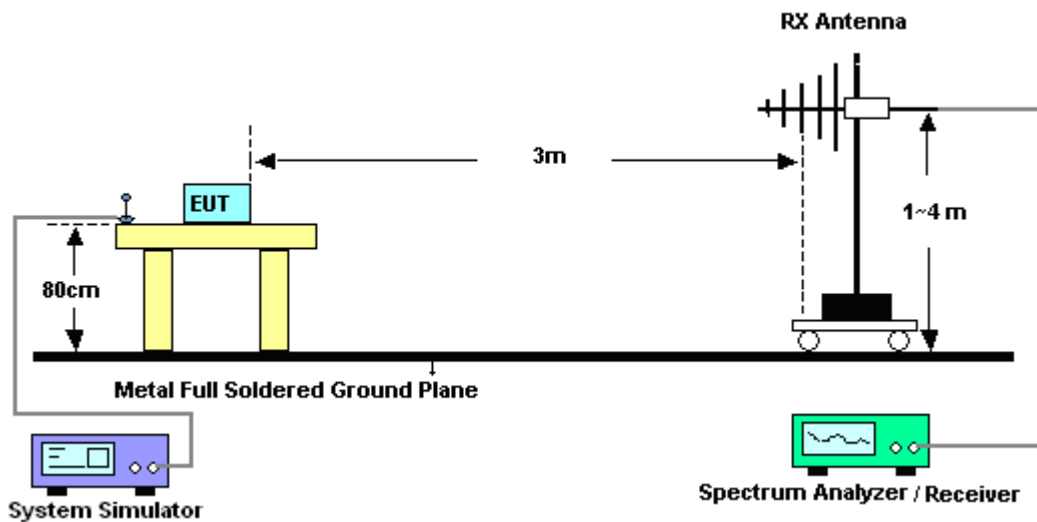
See list of measuring instruments of this test report.

4.1.1 Test Setup

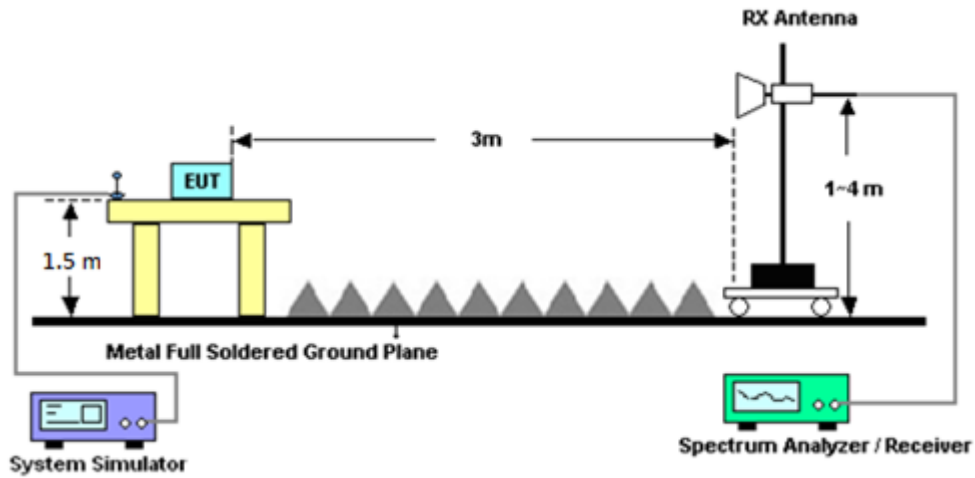
For radiated emissions below 30MHz



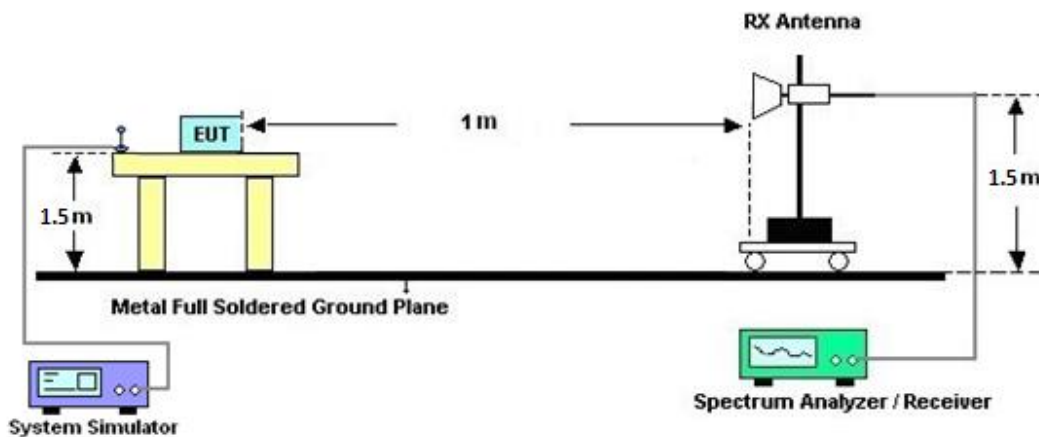
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated emissions above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.

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

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. 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)

$EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$

$ERP \text{ (dBm)} = EIRP - 2.15$



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Feb. 27, 2021~ Mar. 22, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Feb. 27, 2021~ Mar. 22, 2021	Apr. 28, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Nov. 23, 2020	Feb. 27, 2021~ Mar. 22, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1212	1GHz~18GHz	May. 20, 2020	Feb. 27, 2021~ Mar. 22, 2021	May. 19, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Dec. 19, 2020	Feb. 27, 2021~ Mar. 22, 2021	Dec. 18, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917057 6	18GHz~40GHz	May. 22, 2019	Feb. 27, 2021~ Mar. 22, 2021	May 21, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Feb. 27, 2021~ Mar. 22, 2021	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY57280120	1GHz~26.5GHz	Jul. 20, 2020	Feb. 27, 2021~ Mar. 22, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 05, 2020	Feb. 27, 2021~ Mar. 22, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 22, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	Feb. 27, 2021~ Mar. 22, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 12, 2020	Feb. 27, 2021~ Mar. 10, 2021	Mar. 11, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 11, 2021	Mar. 11, 2021~ Mar. 22, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Feb. 27, 2021~ Mar. 22, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 22, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Feb. 27, 2021~ Mar. 22, 2021	Feb. 22, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 27, 2021~ Mar. 22, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 27, 2021~ Mar. 22, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Feb. 27, 2021~ Mar. 22, 2021	N/A	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 21, 2020	Feb. 27, 2021~ Mar. 16, 2021	Mar. 20, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Mar. 17, 2021~ Mar. 22, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Jul. 14, 2020	Feb. 27, 2021~ Mar. 22, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 18, 2020	Feb. 27, 2021~ Mar. 16, 2021	Mar. 17, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Mar. 17, 2021~ Mar. 22, 2021	Mar. 16, 2022	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~4A	Oct. 11, 2020	Mar. 01, 2021~ Apr. 01, 2021	Oct. 10, 2021	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101906	10Hz~40GHz	May 07, 2020	Mar. 01, 2021~ Apr. 01, 2021	May. 06, 2021	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SU-641	92013721	-30℃ ~70℃	Nov. 10, 2020	Mar. 01, 2021~ Apr. 01, 2021	Nov. 09, 2021	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262044657	LTE(FDD)	Jan. 07, 2021	Mar. 01, 2021~ Apr. 01, 2021	Jan. 06, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262012917	5GNR	Jan. 07, 2021	Mar. 01, 2021~ Apr. 01, 2021	Jan. 06, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.07
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.21
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.80
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	22.56	22.56	22.26	31.66	1.4655		
5	1	23		22.46	22.46	22.16				
5	12	6		22.46	22.46	22.16				
5	1	0		22.46	22.36	22.16				
5	1	24		22.46	22.46	22.16				
5	25	0		22.46	22.46	22.16				
5	1	1	QPSK	22.46	22.46	22.16				
5	1	23		22.36	22.36	22.06				
5	12	6		22.36	22.36	22.06				
5	1	0		22.36	22.26	22.06				
5	1	24		22.36	22.36	22.06				
5	25	0		22.36	22.36	22.06				
5	1	1	16-QAM	22.36	22.36	21.96	31.46	1.3996		
5	1	1	64-QAM	21.86	21.76	21.56				
5	1	1	256-QAM	20.06	19.96	19.76				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.56	22.56	22.36	31.66	1.4655		
10	1	50		22.46	22.46	22.26				
10	25	12		22.46	22.46	22.26				
10	1	0		22.46	22.46	22.26				
10	1	51		22.46	22.46	22.26				
10	50	0		22.46	22.46	22.26				
10	1	1	QPSK	22.46	22.46	22.26				
10	1	50		22.36	22.36	22.16				
10	25	12		22.36	22.36	22.16				
10	1	0		22.36	22.36	22.16				
10	1	51		22.36	22.36	22.16				
10	50	0		22.36	22.36	22.16				
10	1	1	16-QAM	22.36	22.36	22.06	31.46	1.3996		
10	1	1	64-QAM	21.86	21.86	21.86				
10	1	1	256-QAM	20.16	20.06	20.16				
Limit	EIRP < 2W			Result			Pass			



NR n2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	22.56	22.46	22.36	31.66	1.4655		
15	1	77		22.46	22.36	22.26				
15	36	18		22.46	22.36	22.26				
15	1	0		22.46	22.36	22.26				
15	1	78		22.46	22.36	22.26				
15	75	0		22.46	22.36	22.26				
15	1	1	QPSK	22.46	22.36	22.26				
15	1	77		22.36	22.26	22.16				
15	36	18		22.36	22.26	22.16				
15	1	0		22.36	22.26	22.16				
15	1	78		22.36	22.26	22.16				
15	75	0		22.36	22.26	22.16				
15	1	1	16-QAM	22.26	22.16	21.96	31.36	1.3677		
15	1	1	64-QAM	22.16	22.06	21.86				
15	1	1	256-QAM	20.66	20.36	20.26				
Limit	EIRP < 2W			Result			Pass			

NR n2 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	22.66	22.46	22.36	31.76	1.4997		
20	1	104		22.56	22.36	22.26				
20	50	25		22.56	22.36	22.26				
20	1	0		22.56	22.36	22.26				
20	1	105		22.56	22.36	22.26				
20	100	0		22.56	22.36	22.26				
20	1	1	QPSK	22.56	22.36	22.26				
20	1	104		22.46	22.26	22.16				
20	50	25		22.46	22.26	22.16				
20	1	0		22.46	22.26	22.16				
20	1	105		22.46	22.26	22.16				
20	100	0		22.46	22.26	22.16				
20	1	1	16-QAM	22.16	22.06	22.16	31.26	1.3366		
20	1	1	64-QAM	22.06	21.96	22.06				
20	1	1	256-QAM	20.66	20.56	20.26				
Limit	EIRP < 2W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	23.37	23.37	22.57	23.62	0.2301		
5	1	23		22.87	23.17	22.47				
5	12	6		22.97	23.27	22.47				
5	1	0		22.97	23.07	22.17				
5	1	24		22.47	23.17	21.97				
5	25	0		22.07	22.77	21.57				
5	1	1	QPSK	23.27	23.27	22.47				
5	1	23		22.87	22.97	22.27				
5	12	6		22.87	23.17	22.37				
5	1	0		22.47	22.87	21.57				
5	1	24		21.97	22.87	21.37				
5	25	0		21.97	22.67	21.67				
5	1	1	16-QAM	22.37	22.67	21.87	22.92	0.1959		
5	1	1	64-QAM	20.77	21.27	19.87				
5	1	1	256-QAM	19.47	19.97	18.77				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	23.37	23.27	23.27	23.62	0.2301		
10	1	50		22.87	22.87	22.17				
10	25	12		22.77	23.17	22.67				
10	1	0		23.27	22.87	22.97				
10	1	51		22.97	22.57	21.67				
10	50	0		21.97	18.37	17.67				
10	1	1	QPSK	23.27	23.17	23.17				
10	1	50		23.07	22.77	22.07				
10	25	12		22.67	23.07	22.57				
10	1	0		23.17	22.77	23.07				
10	1	51		23.17	22.47	22.17				
10	50	0		21.89	22.57	21.67				
10	1	1	16-QAM	22.17	21.87	22.37	22.62	0.1828		
10	1	1	64-QAM	21.47	21.37	21.77				
10	1	1	256-QAM	19.97	20.07	20.27				
Limit	ERP < 7W			Result			Pass			



NR n5 Maximum Average Power [dBm] (GT - LC = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.37	23.27	23.37	23.62	0.2301		
15	1	77		23.27	22.57	22.47				
15	36	18		22.87	23.17	22.87				
15	1	0		23.17	22.67	23.27				
15	1	78		23.07	22.07	21.97				
15	75	0		22.67	18.37	18.27				
15	1	1	QPSK	23.27	23.17	23.27				
15	1	77		23.17	22.47	22.07				
15	36	18		22.77	23.07	22.77				
15	1	0		22.77	22.67	23.07				
15	1	78		22.87	21.97	21.67				
15	75	0		22.27	22.57	22.17				
15	1	1	16-QAM	22.47	22.17	22.57	22.82	0.1914		
15	1	1	64-QAM	21.67	21.47	22.07				
15	1	1	256-QAM	20.17	20.07	20.37				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	23.47	23.17	22.97	23.72	0.2355		
20	1	104		21.97	22.17	22.07				
20	50	25		22.77	22.37	22.37				
20	1	0		22.77	22.97	22.67				
20	1	105		21.37	21.97	22.77				
20	100	0		17.97	18.07	17.97				
20	1	1	QPSK	23.37	23.07	22.87				
20	1	104		21.87	22.07	21.97				
20	50	25		23.27	23.27	23.27				
20	1	0		23.17	22.87	22.57				
20	1	105		21.97	21.87	22.67				
20	100	0		22.17	22.37	22.37				
20	1	1	16-QAM	22.27	22.27	22.07	22.52	0.1786		
20	1	1	64-QAM	21.77	21.47	21.27				
20	1	1	256-QAM	20.37	19.97	19.87				
Limit	ERP < 7W			Result			Pass			



NR n7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	22.56	22.56	22.56	32.86	1.932		
5	1	23		22.46	22.46	22.46				
5	12	6		22.46	22.46	22.46				
5	1	0		22.46	22.46	22.46				
5	1	24		22.46	22.46	22.46				
5	25	0		22.46	22.46	22.46				
5	1	1	QPSK	22.46	22.46	22.46				
5	1	23		22.36	22.36	22.36				
5	12	6		22.36	22.36	22.36				
5	1	0		22.36	22.36	22.36				
5	1	24		22.36	22.36	22.36				
5	25	0		22.36	22.36	22.36				
5	1	1	16-QAM	22.36	22.36	22.36	32.66	1.845		
5	1	1	64-QAM	21.36	21.36	21.36				
5	1	1	256-QAM	19.16	19.26	19.26				
Limit	Output power < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.56	22.56	22.56	32.86	1.932		
10	1	50		22.46	22.46	22.46				
10	25	12		22.46	22.46	22.46				
10	1	0		22.46	22.46	22.46				
10	1	51		22.46	22.46	22.46				
10	50	0		22.46	22.46	22.46				
10	1	1	QPSK	22.46	22.46	22.46				
10	1	50		22.36	22.36	22.36				
10	25	12		22.36	22.36	22.36				
10	1	0		22.36	22.36	22.36				
10	1	51		22.36	22.36	22.36				
10	50	0		22.36	22.36	22.36				
10	1	1	16-QAM	22.36	22.36	22.36	32.66	1.845		
10	1	1	64-QAM	21.26	21.26	21.36				
10	1	1	256-QAM	19.26	19.16	19.36				
Limit	Output power < 2W			Result			Pass			



NR n7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	22.56	22.56	22.56	32.86	1.932		
15	1	77		22.46	22.46	22.46				
15	36	18		22.46	22.46	22.46				
15	1	0		22.46	22.46	22.46				
15	1	78		22.46	22.46	22.46				
15	75	0		22.46	22.46	22.46				
15	1	1	QPSK	22.46	22.46	22.46				
15	1	77		22.36	22.36	22.36				
15	36	18		22.36	22.36	22.36				
15	1	0		22.36	22.36	22.36				
15	1	78		22.36	22.36	22.36				
15	75	0		22.36	22.36	22.36				
15	1	1	16-QAM	22.36	22.36	22.36	32.66	1.845		
15	1	1	64-QAM	21.56	21.56	21.56				
15	1	1	256-QAM	19.46	19.46	19.46				
Limit	Output power < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	22.66	22.66	22.66	32.96	1.977		
20	1	104		22.56	22.56	22.56				
20	50	25		22.56	22.56	22.56				
20	1	0		22.56	22.56	22.56				
20	1	105		22.56	22.56	22.56				
20	100	0		22.56	22.56	22.56				
20	1	1	QPSK	22.56	22.56	22.56				
20	1	104		22.46	22.46	22.46				
20	50	25		22.46	22.46	22.46				
20	1	0		22.46	22.46	22.46				
20	1	105		22.46	22.46	22.46				
20	100	0		22.46	22.46	22.46				
20	1	1	16-QAM	22.36	22.36	22.36	32.66	1.845		
20	1	1	64-QAM	21.46	21.56	21.46				
20	1	1	256-QAM	19.46	19.46	19.46				
Limit	Output power < 2W			Result			Pass			



NR n12 Maximum Average Power [dBm] (GT - LC = 3.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	23.78	23.78	23.78	24.93	0.3112		
5	1	23		23.68	23.68	23.48				
5	12	6		23.68	23.68	23.68				
5	1	0		23.68	23.68	23.68				
5	1	24		23.68	23.58	23.48				
5	25	0		23.68	23.68	23.68				
5	1	1	QPSK	23.68	23.68	23.58				
5	1	23		23.58	23.58	23.38				
5	12	6		23.38	23.58	23.58				
5	1	0		23.38	23.28	23.18				
5	1	24		23.18	23.08	22.98				
5	25	0		23.38	23.28	23.18				
5	1	1	16-QAM	23.58	23.58	23.48	24.73	0.2972		
5	1	1	64-QAM	21.98	21.78	21.78				
5	1	1	256-QAM	19.98	19.88	19.78				
Limit	ERP < 30W			Result			Pass			

NR n12 Maximum Average Power [dBm] (GT - LC = 3.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	23.78	23.78	23.78	24.93	0.3112		
10	1	50		23.68	23.68	23.58				
10	25	12		23.68	23.68	23.68				
10	1	0		23.68	23.68	23.68				
10	1	51		23.68	23.68	23.48				
10	50	0		23.68	23.68	23.68				
10	1	1	QPSK	23.68	23.68	23.68				
10	1	50		23.58	23.58	23.48				
10	25	12		23.58	23.58	23.58				
10	1	0		23.38	23.28	23.18				
10	1	51		23.18	22.98	22.98				
10	50	0		23.38	23.28	23.28				
10	1	1	16-QAM	23.18	23.08	23.08	24.33	0.271		
10	1	1	64-QAM	21.48	21.48	21.38				
10	1	1	256-QAM	19.48	19.38	19.28				
Limit	ERP < 30W			Result			Pass			



NR n12 Maximum Average Power [dBm] (GT - LC = 3.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.88	23.88	23.88	25.03	0.3184		
15	1	77		23.68	23.68	23.68				
15	36	18		23.78	23.78	23.78				
15	1	0		23.78	23.78	23.78				
15	1	78		23.58	23.58	23.58				
15	75	0		23.78	23.78	23.78				
15	1	1	QPSK	23.78	23.78	23.78				
15	1	77		23.58	23.58	23.58				
15	36	18		23.68	23.68	23.68				
15	1	0		23.38	23.38	23.28				
15	1	78		23.08	23.08	22.98				
15	75	0		23.38	23.38	23.28				
15	1	1	16-QAM	23.28	23.18	23.18	24.43	0.2773		
15	1	1	64-QAM	21.68	21.86	21.86				
15	1	1	256-QAM	19.68	19.68	19.68				
Limit	ERP < 30W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	22.66	22.66	22.66	31.76	1.4997		
5	1	23		22.56	22.56	22.56				
5	12	6		22.56	22.56	22.56				
5	1	0		22.56	22.56	22.56				
5	1	24		22.56	22.56	22.56				
5	25	0		22.56	22.56	22.56				
5	1	1	QPSK	22.56	22.56	22.56				
5	1	23		22.46	22.46	22.46				
5	12	6		22.46	22.46	22.46				
5	1	0		22.46	22.46	22.46				
5	1	24		22.46	22.46	22.46				
5	25	0		22.46	22.46	22.46				
5	1	1	16-QAM	22.46	22.46	22.46	31.56	1.4322		
5	1	1	64-QAM	20.96	20.96	21.06				
5	1	1	256-QAM	19.06	19.06	19.06				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.66	22.66	22.66	31.76	1.4997		
10	1	50		22.56	22.56	22.56				
10	25	12		22.56	22.56	22.56				
10	1	0		22.56	22.56	22.56				
10	1	51		22.56	22.56	22.56				
10	50	0		22.56	22.56	22.56				
10	1	1	QPSK	22.56	22.56	22.56				
10	1	50		22.46	22.46	22.46				
10	25	12		22.46	22.46	22.46				
10	1	0		22.46	22.46	22.46				
10	1	51		22.46	22.46	22.46				
10	50	0		22.46	22.46	22.46				
10	1	1	16-QAM	22.46	22.46	22.46	31.56	1.4322		
10	1	1	64-QAM	21.06	20.86	20.96				
10	1	1	256-QAM	19.16	19.06	18.76				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	22.66	22.66	22.66	31.76	1.4997		
15	1	77		22.56	22.56	22.56				
15	36	18		22.56	22.56	22.56				
15	1	0		22.56	22.56	22.56				
15	1	78		22.56	22.56	22.46				
15	75	0		22.56	22.56	22.56				
15	1	1	QPSK	22.56	22.56	22.56				
15	1	77		22.46	22.46	22.46				
15	36	18		22.46	22.46	22.46				
15	1	0		22.46	22.46	22.46				
15	1	78		22.46	22.46	22.36				
15	75	0		22.46	22.46	22.46				
15	1	1	16-QAM	22.46	22.46	22.46	31.56	1.4322		
15	1	1	64-QAM	21.06	21.06	21.06				
15	1	1	256-QAM	18.76	18.86	18.76				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 9.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	22.76	22.66	22.66	31.86	1.5346		
20	1	104		22.66	22.46	22.46				
20	50	25		22.66	22.56	22.56				
20	1	0		22.66	22.56	22.46				
20	1	105		22.66	22.46	22.46				
20	100	0		22.66	22.66	22.56				
20	1	1	QPSK	22.66	22.56	22.56				
20	1	104		22.46	22.36	22.36				
20	50	25		22.56	22.56	22.46				
20	1	0		22.56	22.56	22.36				
20	1	105		22.46	22.36	22.36				
20	100	0		22.56	22.46	22.46				
20	1	1	16-QAM	22.56	22.56	22.56	31.66	1.4655		
20	1	1	64-QAM	21.06	21.16	20.96				
20	1	1	256-QAM	18.76	18.76	18.76				
Limit	EIRP < 2W			Result			Pass			



NR n38 Maximum Average Power [dBm] (GT - LC = 6 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.92	23.92	23.82	29.92	0.9817		
20	1	49		23.82	23.82	23.72				
20	25	12		23.82	23.82	23.72				
20	1	0		23.82	23.82	23.72				
20	1	50		23.82	23.82	23.72				
20	50	0		23.82	23.82	23.72				
20	1	1	QPSK	23.82	23.82	23.72				
20	1	49		23.72	23.72	23.62				
20	25	12		23.72	23.72	23.62				
20	1	0		23.72	23.72	23.62				
20	1	50		23.72	23.72	23.62				
20	50	0		23.72	23.72	23.62				
20	1	1	16-QAM	23.72	23.72	23.62	29.72	0.9376		
20	1	1	64-QAM	22.92	23.02	22.92				
20	1	1	256-QAM	21.02	21.02	21.02				
Limit	Output power < 2W			Result			Pass			



NR n41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.90	23.30	22.30	34.2	2.6303
20	1	49		23.80	23.30	23.10		
20	25	12		23.90	23.20	22.90		
20	1	0		21.50	22.70	20.80		
20	1	50		21.20	21.60	21.30		
20	50	0		23.80	22.60	22.30		
20	1	1	QPSK	23.80	23.20	22.30	34.2	2.6303
20	1	49		23.80	23.30	23.10		
20	25	12		23.90	23.10	22.80		
20	1	0		21.50	23.30	20.80		
20	1	50		21.20	21.60	21.20		
20	50	0		23.40	22.10	22.20		
20	1	1	16-QAM	22.90	22.20	21.20	33.2	2.0893
20	1	1	64-QAM	22.10	21.60	20.50		
20	1	1	256-QAM	20.30	20.10	18.90		
Limit	Output power < 2W			Result			Pass	



NR n41 Maximum Average Power [dBm] (GT - LC = 10.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	23.50	23.80	23.60	34.1	2.5704		
100	1	271		22.90	23.30	23.70				
100	135	67		23.70	23.60	23.40				
100	1	0		20.90	20.90	20.90				
100	1	272		20.60	20.50	20.90				
100	270	0		23.50	23.50	23.40				
100	1	1	QPSK	23.40	23.70	23.60				
100	1	271		22.80	23.20	23.20				
100	135	67		23.60	23.50	23.40				
100	1	0		20.80	20.80	20.80				
100	1	272		20.60	20.40	20.80				
100	270	0		23.20	23.20	23.20				
100	1	1	16-QAM	22.60	23.50	22.50	33.8	2.3988		
100	1	1	64-QAM	20.90	21.80	20.80				
100	1	1	256-QAM	19.70	19.70	19.80				
Limit	Output power < 2W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	19.33	19.33	19.33	27.83	0.6067		
5	1	23		19.33	19.33	19.33				
5	12	6		19.33	19.33	19.33				
5	1	0		19.33	19.23	19.33				
5	1	24		19.33	19.33	19.33				
5	25	0		19.33	19.33	19.23				
5	1	1	QPSK	19.33	19.33	19.33				
5	1	23		19.23	19.23	19.23				
5	12	6		19.23	19.23	19.23				
5	1	0		19.23	19.13	19.23				
5	1	24		19.23	19.23	19.23				
5	25	0		19.23	19.13	19.23				
5	1	1	16-QAM	19.23	19.23	19.23	27.73	0.5929		
5	1	1	64-QAM	19.13	19.13	19.13				
5	1	1	256-QAM	19.03	19.03	19.03				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	19.33	19.33	19.33	27.83	0.6067		
10	1	50		19.33	19.33	19.33				
10	25	12		19.33	19.23	19.33				
10	1	0		19.33	19.33	19.23				
10	1	51		19.33	19.33	19.33				
10	50	0		19.33	19.33	19.23				
10	1	1	QPSK	19.33	19.33	19.33				
10	1	50		19.23	19.23	19.23				
10	25	12		19.23	19.13	19.13				
10	1	0		19.23	19.23	19.23				
10	1	51		19.23	19.23	19.23				
10	50	0		19.23	19.23	19.23				
10	1	1	16-QAM	19.23	19.23	19.23	27.73	0.5929		
10	1	1	64-QAM	19.13	19.03	18.93				
10	1	1	256-QAM	19.03	19.03	18.83				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	19.33	19.33	19.33	27.83	0.6067		
15	1	77		19.33	19.33	19.33				
15	36	18		19.33	19.23	19.33				
15	1	0		19.33	19.33	19.33				
15	1	78		19.33	19.33	19.33				
15	75	0		19.33	19.23	19.33				
15	1	1	QPSK	19.33	19.33	19.33				
15	1	77		19.23	19.23	19.23				
15	36	18		19.23	19.13	19.23				
15	1	0		19.23	19.23	19.23				
15	1	78		19.23	19.13	19.23				
15	75	0		19.23	19.23	19.23				
15	1	1	16-QAM	19.13	19.03	19.13	27.63	0.5794		
15	1	1	64-QAM	19.03	19.03	19.03				
15	1	1	256-QAM	18.93	18.83	18.93				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 8.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	19.43	19.43	19.43	27.93	0.6209		
20	1	104		19.33	19.33	19.33				
20	50	25		19.33	19.33	19.33				
20	1	0		19.33	19.33	19.33				
20	1	105		19.33	19.23	19.13				
20	100	0		19.33	19.33	19.30				
20	1	1	QPSK	19.33	19.33	19.33				
20	1	104		19.33	19.33	19.33				
20	50	25		19.33	19.20	19.33				
20	1	0		19.33	19.33	19.33				
20	1	105		19.33	19.23	19.23				
20	100	0		19.33	19.33	19.13				
20	1	1	16-QAM	19.23	19.23	19.23	27.73	0.5929		
20	1	1	64-QAM	19.13	19.03	19.03				
20	1	1	256-QAM	19.03	19.03	19.03				
Limit	EIRP < 1W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 3.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	23.36	23.16	23.06	24.31	0.2698		
5	1	23		23.16	23.06	22.76				
5	12	6		23.26	23.06	22.96				
5	1	0		22.76	22.66	22.46				
5	1	24		22.56	22.46	22.26				
5	25	0		22.76	22.56	22.36				
5	1	1	QPSK	23.26	23.06	22.96				
5	1	23		23.06	22.96	22.66				
5	12	6		23.16	22.96	22.86				
5	1	0		22.56	22.06	21.96				
5	1	24		22.46	21.96	21.76				
5	25	0		22.66	22.16	21.96				
5	1	1	16-QAM	22.16	22.06	21.96	23.11	0.2046		
5	1	1	64-QAM	20.36	19.96	20.26				
5	1	1	256-QAM	18.76	18.46	18.36				
Limit	ERP < 30W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 3.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	23.36	23.16	23.16	24.31	0.2698		
10	1	50		23.06	23.06	22.86				
10	25	12		23.26	23.06	23.06				
10	1	0		22.76	22.46	22.56				
10	1	51		22.46	22.66	22.36				
10	50	0		22.76	22.66	22.56				
10	1	1	QPSK	23.26	23.06	23.06				
10	1	50		22.96	22.96	22.76				
10	25	12		23.16	22.96	22.96				
10	1	0		22.26	21.96	22.06				
10	1	51		21.96	22.06	21.76				
10	50	0		22.26	22.16	22.06				
10	1	1	16-QAM	22.26	22.06	22.06	23.21	0.2094		
10	1	1	64-QAM	20.46	20.16	20.16				
10	1	1	256-QAM	18.56	18.26	18.26				
Limit	ERP < 30W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = 3.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	23.46	23.16	23.16	24.41	0.2761		
15	1	77		23.26	23.06	22.86				
15	36	18		23.26	23.06	22.96				
15	1	0		22.86	22.56	22.46				
15	1	78		22.66	22.46	22.26				
15	75	0		21.06	22.66	22.56				
15	1	1	QPSK	23.36	23.06	23.06				
15	1	77		23.16	22.96	22.76				
15	36	18		23.16	22.96	22.86				
15	1	0		22.36	22.06	22.06				
15	1	78		22.06	22.06	21.76				
15	75	0		22.36	22.26	22.06				
15	1	1	16-QAM	22.26	21.86	21.86	23.21	0.2094		
15	1	1	64-QAM	20.76	20.46	20.46				
15	1	1	256-QAM	18.66	18.36	18.36				
Limit	ERP < 30W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = 3.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	23.56	23.26	23.26	24.51	0.2825		
20	1	104		23.06	23.06	22.86				
20	50	25		23.36	23.16	23.16				
20	1	0		22.96	22.76	22.76				
20	1	105		22.56	22.56	22.36				
20	100	0		20.96	21.16	22.66				
20	1	1	QPSK	23.36	23.16	23.16				
20	1	104		22.96	22.96	22.76				
20	50	25		23.26	23.06	23.06				
20	1	0		22.36	22.16	22.16				
20	1	105		21.96	21.96	21.76				
20	100	0		22.26	22.16	22.06				
20	1	1	16-QAM	22.16	22.16	22.26	23.21	0.2094		
20	1	1	64-QAM	20.76	20.36	20.36				
20	1	1	256-QAM	18.56	18.56	18.46				
Limit	ERP < 30W			Result			Pass			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	22.40	23.50	23.80	37.1	5.1286		
40	1	104		22.30	23.40	23.70				
40	50	25		22.20	23.40	23.30				
40	1	0		21.70	22.90	22.80				
40	1	105		21.70	23.10	23.20				
40	100	0		21.60	23.00	23.00				
40	1	1	QPSK	22.20	23.40	23.70				
40	1	104		22.10	23.30	23.60				
40	50	25		22.10	23.30	23.20				
40	1	0		21.20	22.40	22.30				
40	1	105		21.40	22.70	22.70				
40	100	0		21.10	22.90	22.50				
40	1	1	16-QAM	21.30	22.50	22.40	35.8	3.8019		
40	1	1	64-QAM	19.60	20.80	20.70				
40	1	1	256-QAM	17.60	18.90	18.70				
Limit	Reporting only			Result			PASS			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	22.90	23.80	23.80	37.1	5.1286		
50	1	131		22.80	23.70	23.70				
50	64	32		22.80	23.70	23.70				
50	1	0		21.30	22.50	22.30				
50	1	132		21.40	22.90	22.90				
50	128	0		22.80	23.60	23.70				
50	1	1	QPSK	22.80	23.70	23.70				
50	1	131		22.70	23.60	23.60				
50	64	32		22.70	23.60	23.60				
50	1	0		21.20	22.40	22.20				
50	1	132		21.30	22.80	22.80				
50	128	0		22.70	23.60	23.60				
50	1	1	16-QAM	22.70	23.60	23.60	36.9	4.8978		
50	1	1	64-QAM	22.10	23.20	23.20				
50	1	1	256-QAM	20.30	21.20	21.20				
Limit	Reporting only			Result			PASS			

NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	23.00	23.80	23.80	37.1	5.1286		
60	1	160		22.70	23.70	23.20				
60	81	40		22.20	23.70	23.70				
60	1	0		21.90	22.00	21.70				
60	1	161		21.60	22.50	21.80				
60	162	0		22.30	23.70	23.70				
60	1	1	QPSK	22.70	23.70	23.70				
60	1	160		22.60	23.60	23.10				
60	81	40		21.90	23.60	23.60				
60	1	0		21.00	21.90	21.60				
60	1	161		21.20	22.40	21.70				
60	162	0		22.20	23.60	23.60				
60	1	1	16-QAM	22.60	23.60	23.30	36.9	4.8978		
60	1	1	64-QAM	22.00	22.90	22.60				
60	1	1	256-QAM	20.00	21.00	20.50				
Limit	Reporting only			Result			PASS			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	22.70	23.80	23.80	37.1	5.1286		
80	1	215		22.60	23.70	23.70				
80	108	54		22.60	23.70	23.70				
80	1	0		21.10	22.10	22.50				
80	1	216		21.00	22.50	22.60				
80	216	0		22.60	23.70	23.70				
80	1	1	QPSK	22.60	23.70	23.70				
80	1	215		22.50	23.60	23.60				
80	108	54		22.50	23.60	23.60				
80	1	0		21.00	22.00	22.40				
80	1	216		20.90	22.40	22.50				
80	216	0		22.50	23.60	23.60				
80	1	1	16-QAM	22.30	23.10	23.60	36.9	4.8978		
80	1	1	64-QAM	22.10	23.00	23.50				
80	1	1	256-QAM	19.90	20.80	21.30				
Limit	Reporting only			Result			PASS			



NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	22.70	23.80	23.80	37.1	5.1286		
90	1	243		22.60	23.70	23.70				
90	120	60		22.60	23.70	23.70				
90	1	0		21.10	21.80	22.70				
90	1	244		22.60	22.30	22.70				
90	240	0		22.60	23.70	23.70				
90	1	1	QPSK	22.60	23.70	23.70				
90	1	243		22.50	23.60	23.60				
90	120	60		22.50	23.60	23.60				
90	1	0		21.00	21.70	22.60				
90	1	244		22.50	22.20	22.60				
90	240	0		22.50	23.60	23.60				
90	1	1	16-QAM	22.50	23.50	23.60	36.9	4.8978		
90	1	1	64-QAM	22.10	22.90	23.50				
90	1	1	256-QAM	19.80	20.60	21.40				
Limit	Reporting only			Result			PASS			

NR n77 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	22.60	23.80	23.90	37.2	5.2481		
100	1	271		22.50	23.70	23.80				
100	135	67		22.50	23.70	23.80				
100	1	0		21.10	21.90	22.50				
100	1	272		21.20	22.40	22.50				
100	270	0		22.70	23.70	23.80				
100	1	1	QPSK	22.50	23.60	23.80				
100	1	271		22.40	23.50	23.70				
100	135	67		22.40	23.50	23.70				
100	1	0		21.00	21.80	22.40				
100	1	272		21.10	22.30	22.40				
100	270	0		22.60	23.50	23.70				
100	1	1	16-QAM	22.60	23.50	23.70	37	5.0119		
100	1	1	64-QAM	22.20	22.80	23.60				
100	1	1	256-QAM	19.90	20.60	21.40				
Limit	Reporting only			Result			PASS			



NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	23.70	23.70	23.70	37	5.0119		
20	1	49		23.60	23.60	23.60				
20	25	12		23.60	23.60	23.60				
20	1	0		20.80	20.90	20.70				
20	1	50		20.80	20.80	20.70				
20	50	0		23.60	23.60	23.60				
20	1	1	QPSK	23.60	23.60	23.60				
20	1	49		23.50	23.50	23.50				
20	25	12		23.50	23.50	23.50				
20	1	0		20.70	20.80	20.60				
20	1	50		20.70	20.70	20.60				
20	50	0		23.50	23.50	23.50				
20	1	1	16-QAM	23.50	23.50	23.50	36.8	4.7863		
20	1	1	64-QAM	21.70	21.60	21.60				
20	1	1	256-QAM	19.80	19.90	19.70				
Limit	Reporting only			Result			PASS			

NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	23.70	23.70	23.70	37	5.0119		
40	1	104		23.60	23.60	23.60				
40	50	25		23.60	23.60	23.60				
40	1	0		21.20	21.20	21.30				
40	1	105		21.20	21.30	21.30				
40	100	0		23.60	23.60	23.60				
40	1	1	QPSK	23.60	23.60	23.60				
40	1	104		23.50	23.50	23.50				
40	50	25		23.50	23.50	23.50				
40	1	0		21.10	21.10	21.20				
40	1	105		21.10	21.20	21.20				
40	100	0		23.50	23.50	23.50				
40	1	1	16-QAM	23.50	23.50	23.50	36.8	4.7863		
40	1	1	64-QAM	22.00	22.10	22.00				
40	1	1	256-QAM	20.00	20.10	20.00				
Limit	Reporting only			Result			PASS			



NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	23.70	23.70	23.70	37	5.0119		
50	1	131		23.60	23.60	23.60				
50	64	32		23.60	23.60	23.60				
50	1	0		20.60	21.00	21.10				
50	1	132		21.00	21.10	21.30				
50	128	0		23.60	23.60	23.60				
50	1	1	QPSK	23.60	23.60	23.60				
50	1	131		23.50	23.50	23.50				
50	64	32		23.50	23.50	23.50				
50	1	0		20.50	20.90	21.00				
50	1	132		20.90	21.00	21.20				
50	128	0		23.30	23.40	23.50				
50	1	1	16-QAM	23.30	23.50	23.50	36.8	4.7863		
50	1	1	64-QAM	21.60	21.70	22.00				
50	1	1	256-QAM	19.70	19.80	20.00				
Limit	Reporting only			Result			PASS			

NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	23.70	23.70	23.70	37	5.0119		
60	1	160		23.60	23.60	23.60				
60	81	40		23.60	23.60	23.60				
60	1	0		20.40	20.40	20.70				
60	1	161		20.60	20.70	20.90				
60	162	0		23.60	23.60	23.60				
60	1	1	QPSK	23.60	23.60	23.60				
60	1	160		23.50	23.50	23.50				
60	81	40		23.50	23.50	23.50				
60	1	0		20.30	20.30	20.60				
60	1	161		20.50	20.60	20.80				
60	162	0		23.00	23.20	23.20				
60	1	1	16-QAM	23.10	23.00	23.30	36.6	4.5709		
60	1	1	64-QAM	21.30	21.30	21.50				
60	1	1	256-QAM	19.30	19.40	19.40				
Limit	Reporting only			Result			PASS			



NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	23.70	23.70	23.70	37	5.0119		
80	1	215		23.60	23.60	23.60				
80	108	54		23.60	23.60	23.60				
80	1	0		20.30	20.60	20.40				
80	1	216		20.70	20.90	20.80				
80	216	0		23.60	23.30	23.60				
80	1	1	QPSK	23.60	23.60	23.60				
80	1	215		23.50	23.50	23.50				
80	108	54		23.50	23.50	23.50				
80	1	0		20.20	20.50	20.30				
80	1	216		20.60	20.80	20.70				
80	216	0		23.20	23.20	23.20				
80	1	1	16-QAM	22.90	23.20	23.10	36.5	4.4668		
80	1	1	64-QAM	21.20	21.40	21.30				
80	1	1	256-QAM	19.30	19.30	19.30				
Limit	Reporting only			Result			PASS			



NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	23.70	23.70	23.70	37.00	5.0119		
90	1	243		23.60	23.60	23.60				
90	120	60		23.60	23.60	23.60				
90	1	0		20.50	20.40	20.60				
90	1	244		20.80	20.80	20.70				
90	240	0		23.60	23.60	23.60				
90	1	1	QPSK	23.60	23.60	23.60				
90	1	243		23.50	23.50	23.50				
90	120	60		23.50	23.50	23.50				
90	1	0		20.40	20.30	20.50				
90	1	244		20.70	20.70	20.80				
90	240	0		23.30	23.50	23.30				
90	1	1	16-QAM	23.10	23.00	23.20	36.50	4.4668		
90	1	1	64-QAM	21.30	21.30	21.40				
90	1	1	256-QAM	19.30	19.40	19.40				
Limit	Reporting only			Result			PASS			

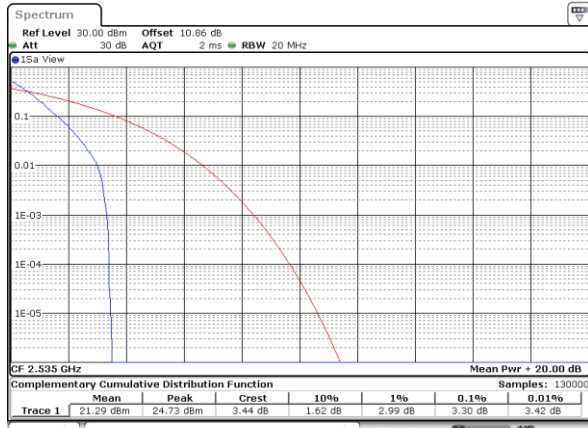
NR n78 Maximum Average Power [dBm] (GT - LC = 13.3 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	-	23.80	-	37.10	5.1286		
100	1	271		-	23.70	-				
100	135	67		-	23.70	-				
100	1	0		-	20.40	-				
100	1	272		-	23.70	-				
100	270	0		-	23.70	-				
100	1	1	QPSK	-	23.70	-				
100	1	271		-	23.60	-				
100	135	67		-	23.60	-				
100	1	0		-	20.30	-				
100	1	272		-	20.60	-				
100	270	0		-	23.20	-				
100	1	1	16-QAM	-	23.10	-	36.40	4.3652		
100	1	1	64-QAM	-	21.30	-				
100	1	1	256-QAM	-	19.40	-				
Limit	Reporting only			Result			PASS			

**FR1 n7****Peak-to-Average Ratio**

Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.30	4.26	5.48	5.91	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.67				PASS

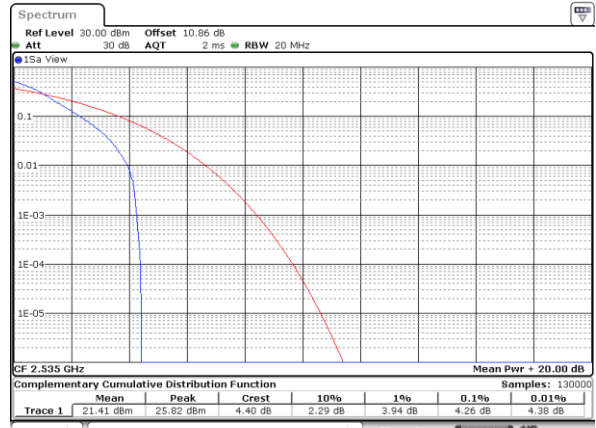
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



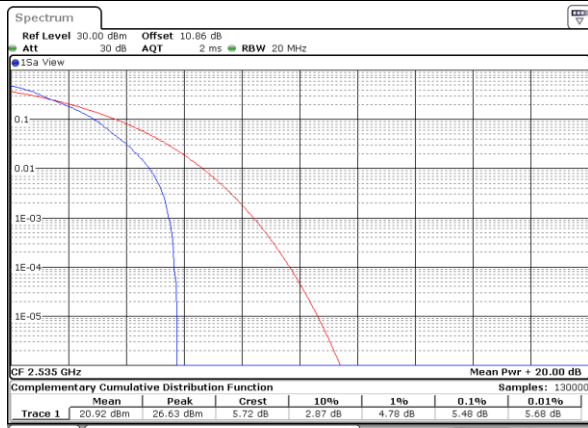
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QPSK



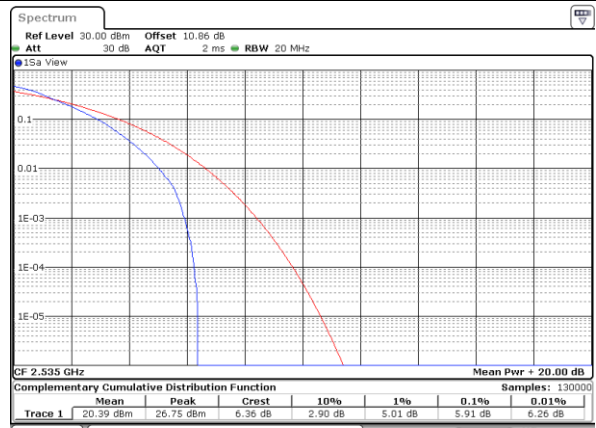
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16QAM



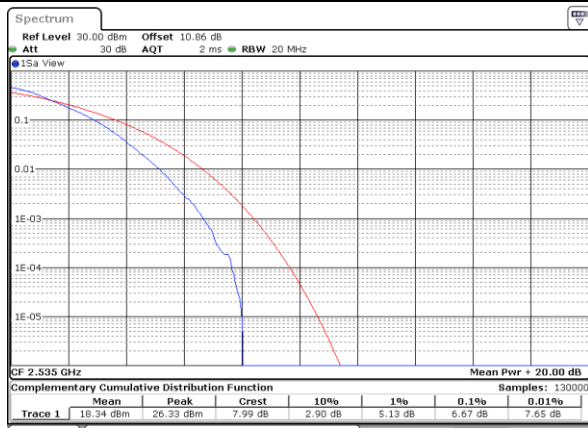
Date: 13.MAR.2021 07:28:58

64QAM



Date: 13.MAR.2021 07:29:17

256QAM

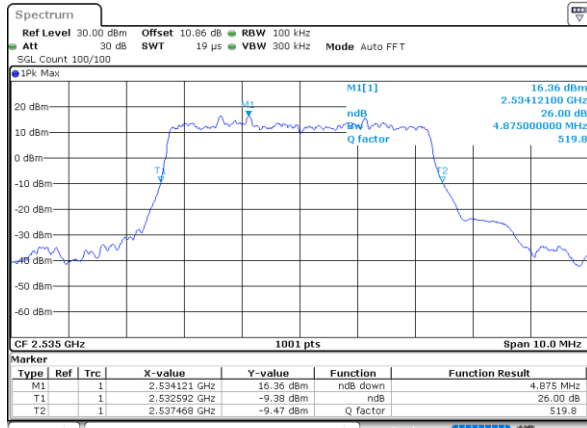


Date: 13.MAR.2021 07:29:34

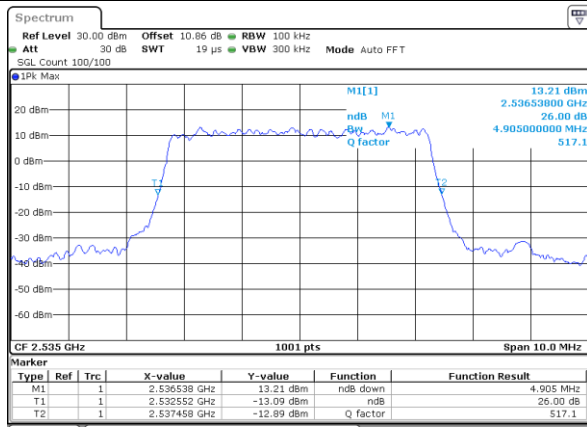
**26dB Bandwidth**

Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.88		9.49		14.24		18.74	

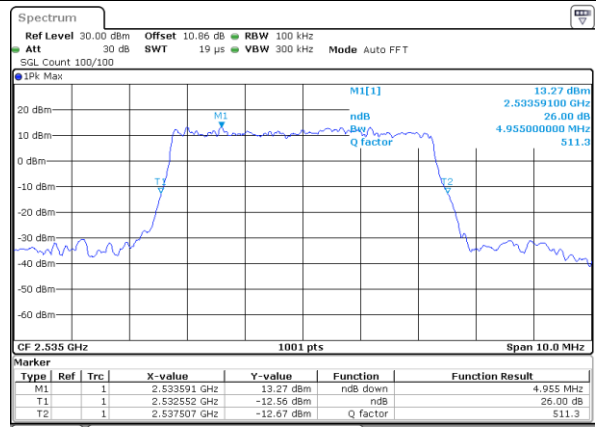
Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.91	4.96	9.91	9.87	14.90	14.90	19.74	19.74
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.97	4.99	9.79	9.89	15.02	14.93	19.78	19.70

FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK


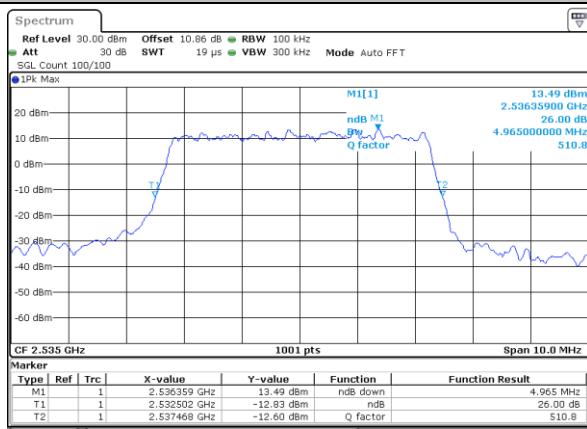
Date: 13.MAR.2021 10:27:13

FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK


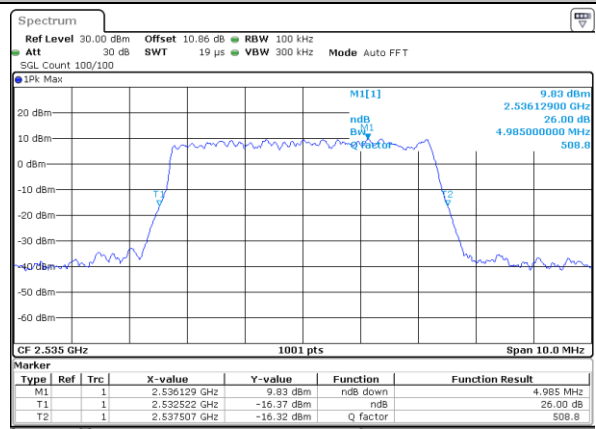
Date: 13.MAR.2021 10:25:23

16QAM


Date: 13.MAR.2021 10:25:47

64QAM


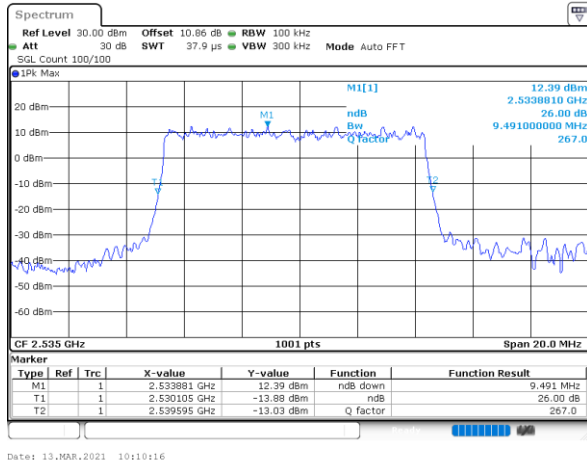
Date: 13.MAR.2021 10:26:08

256QAM


Date: 13.MAR.2021 10:26:30

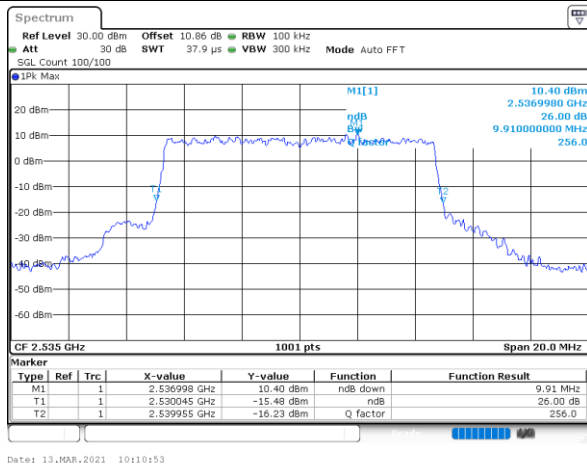
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

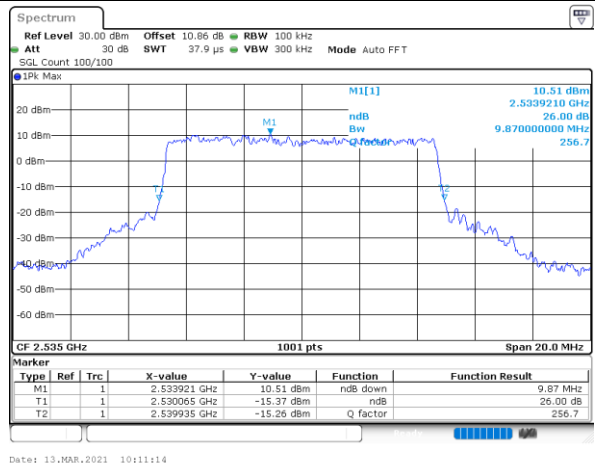


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

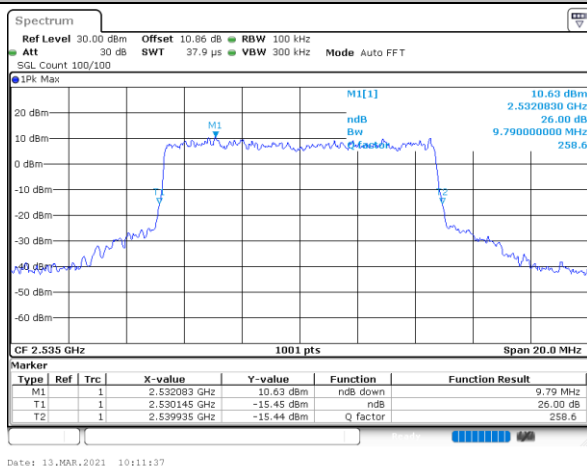
QPSK



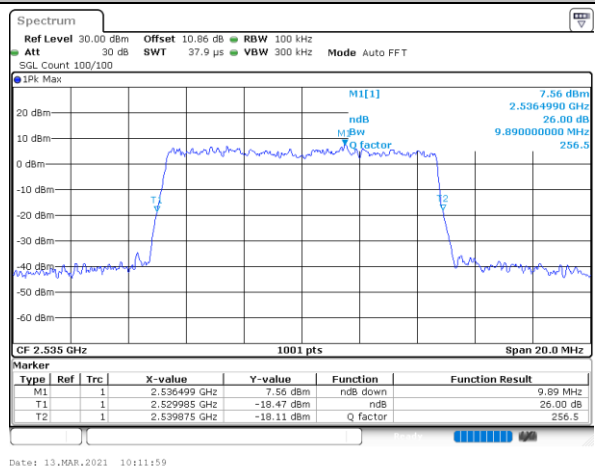
16QAM



64QAM

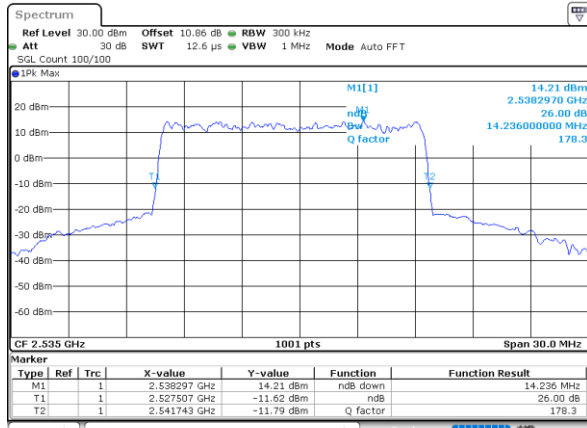


256QAM



FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

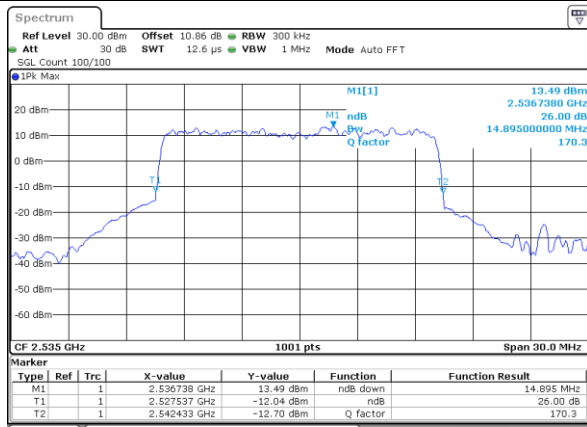
PI/2 BPSK



Date: 13.MAR.2021 09:01:26

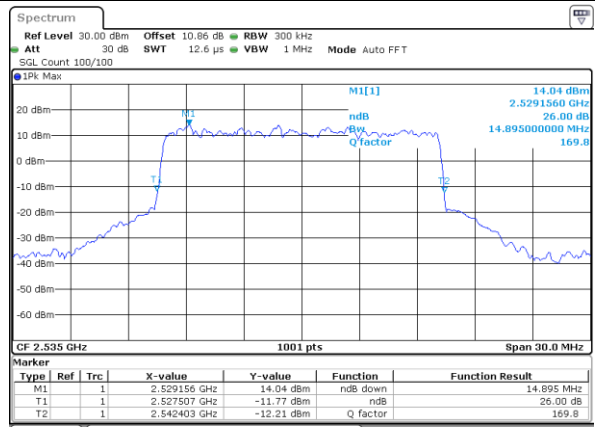
FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



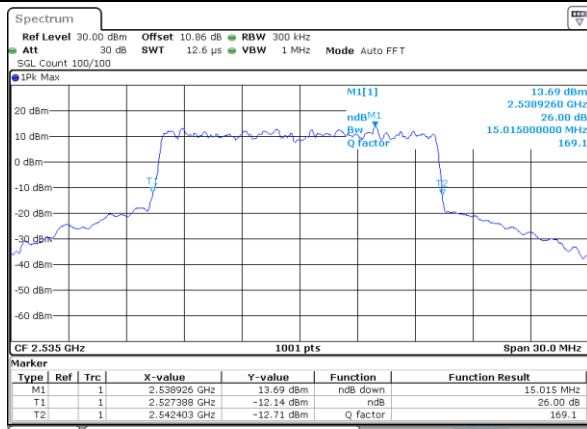
Date: 13.MAR.2021 08:59:22

16QAM



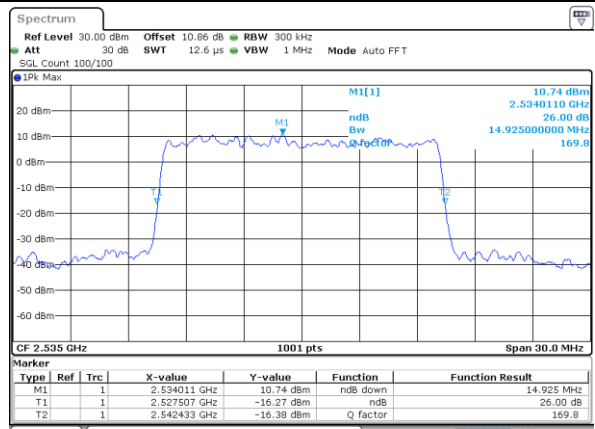
Date: 13.MAR.2021 08:59:54

64QAM



Date: 13.MAR.2021 09:00:29

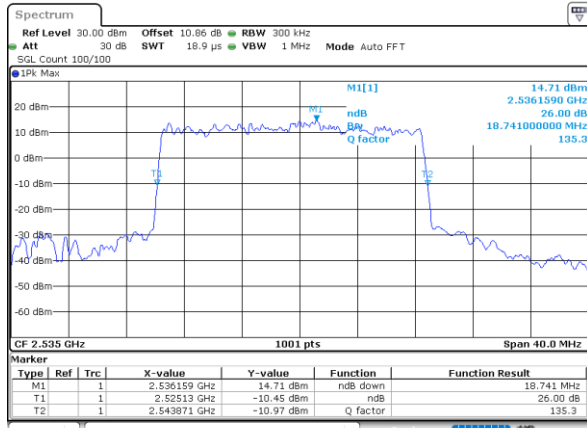
256QAM



Date: 13.MAR.2021 09:00:54

FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

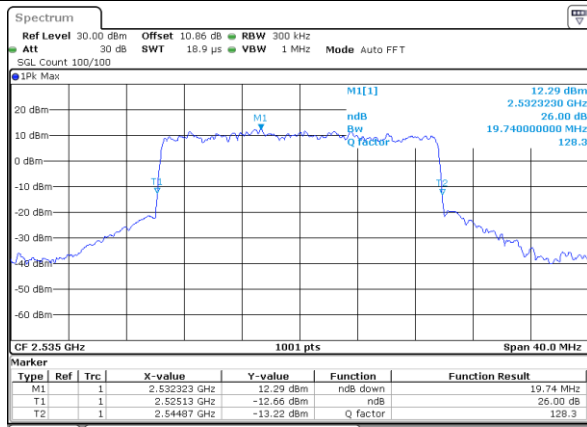
PI/2 BPSK



Date: 13.MAR.2021 07:28:29

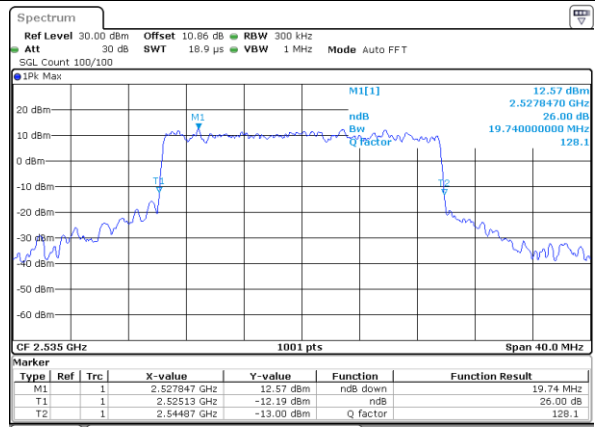
FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



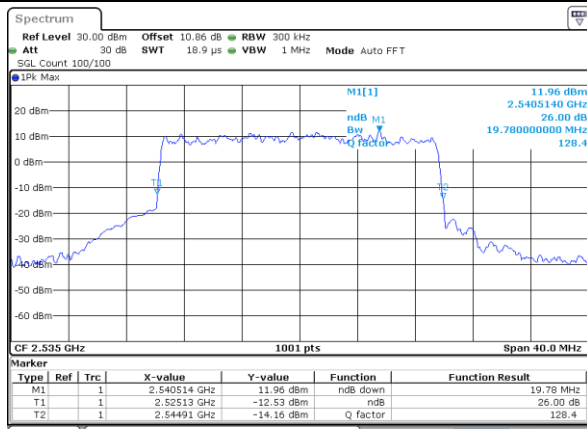
Date: 13.MAR.2021 07:31:27

16QAM



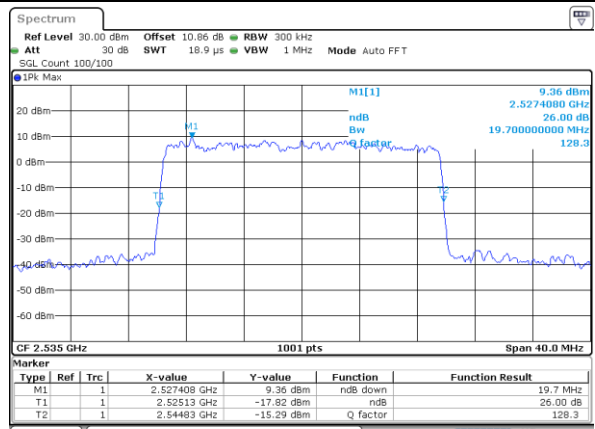
Date: 13.MAR.2021 07:31:06

64QAM



Date: 13.MAR.2021 07:30:41

256QAM

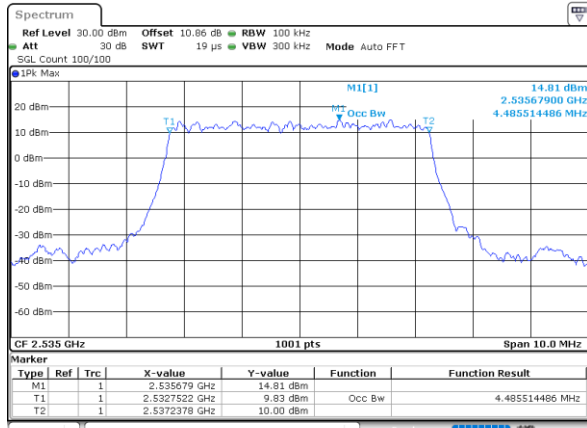
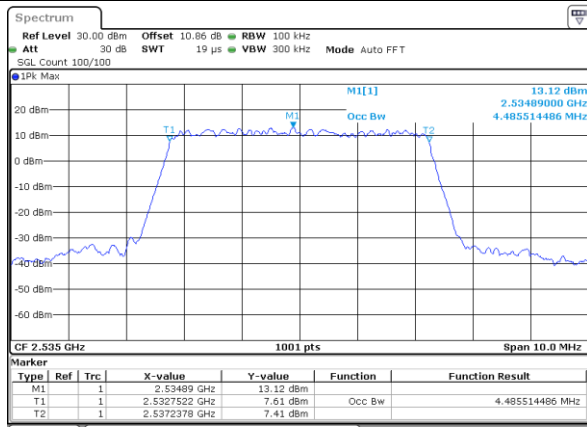
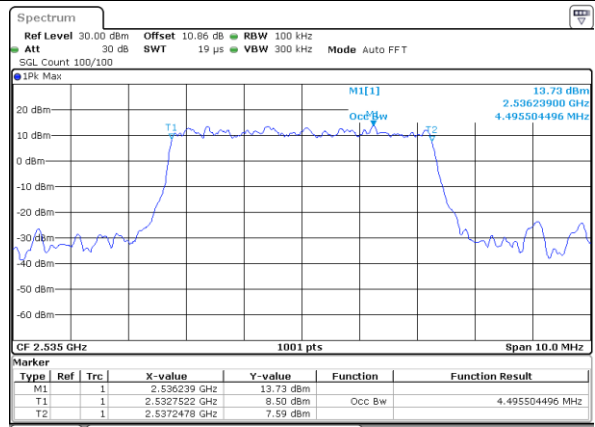
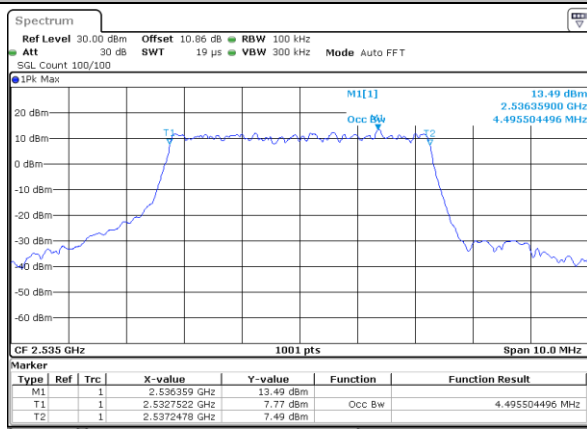
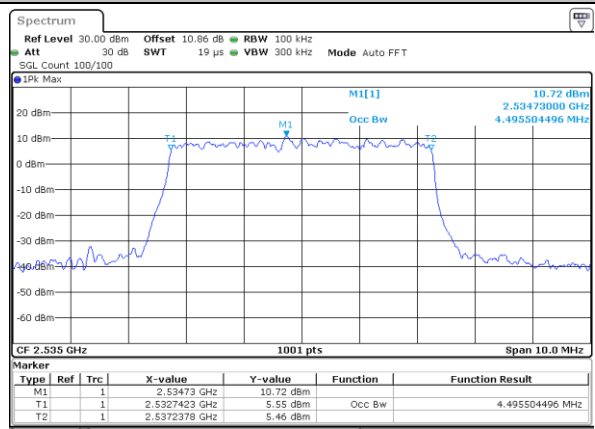


Date: 13.MAR.2021 07:30:20

**Occupied Bandwidth**

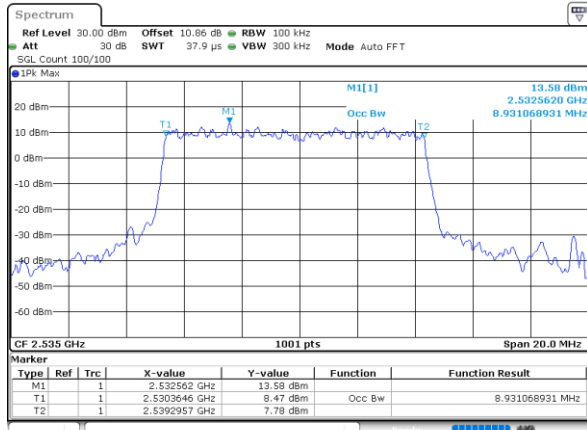
Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.93		13.43		17.90	

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.50	9.29	9.27	14.12	14.18	18.98	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.50	4.50	9.27	9.27	14.15	14.15	18.90	18.90

FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


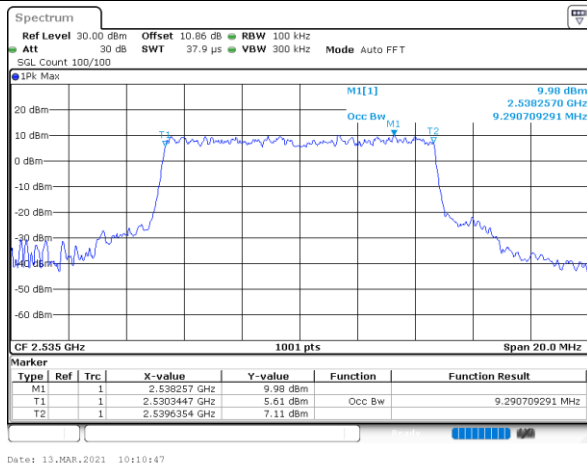
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

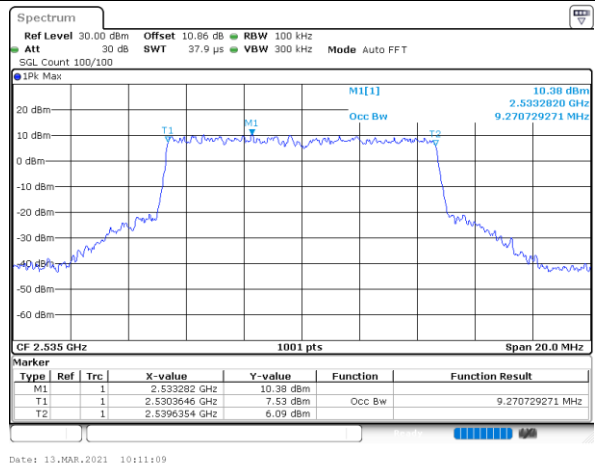


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

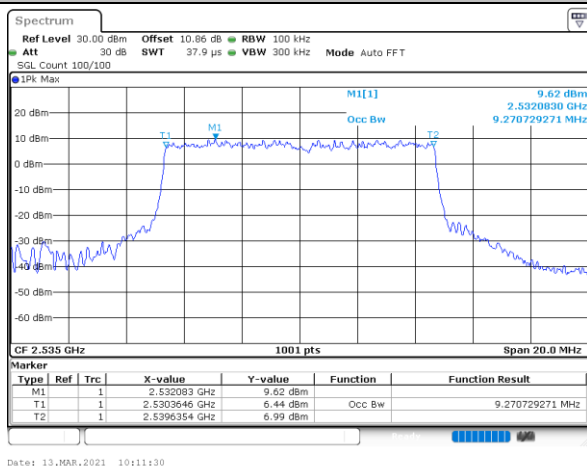
QPSK



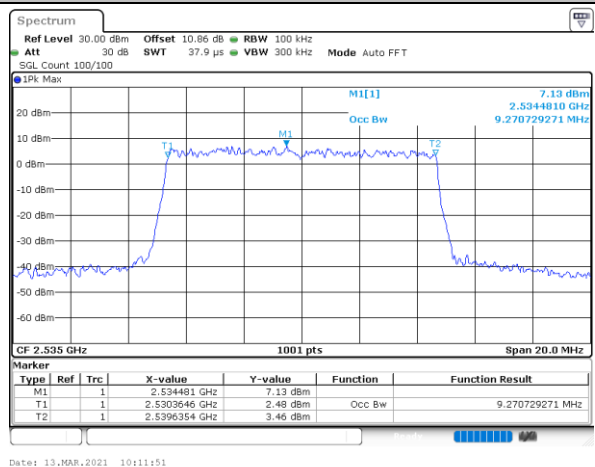
16QAM



64QAM

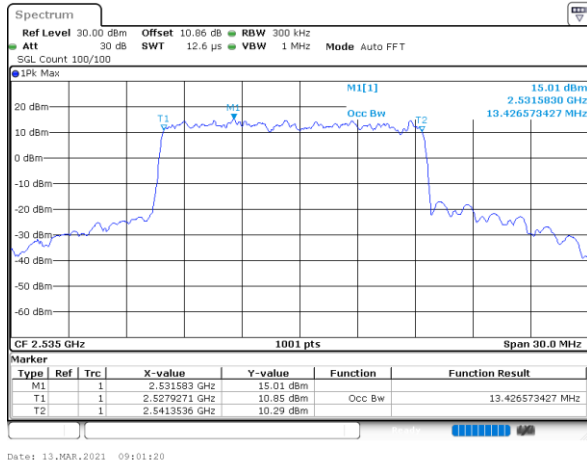


256QAM



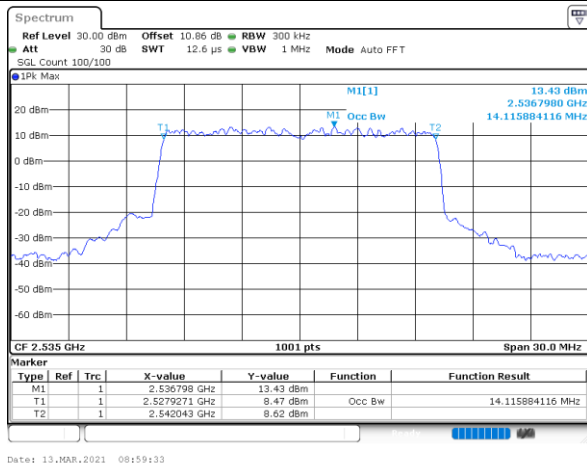
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

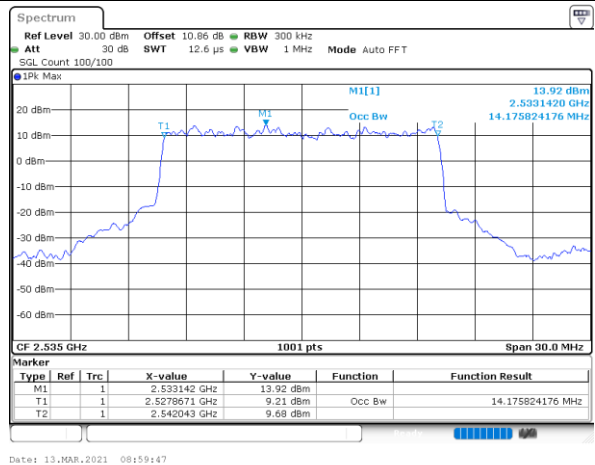


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

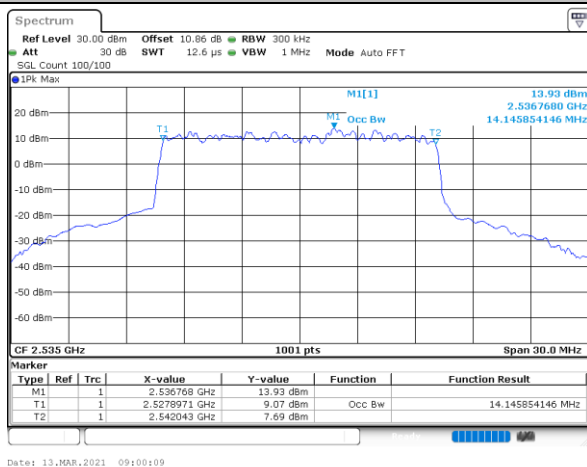
QPSK



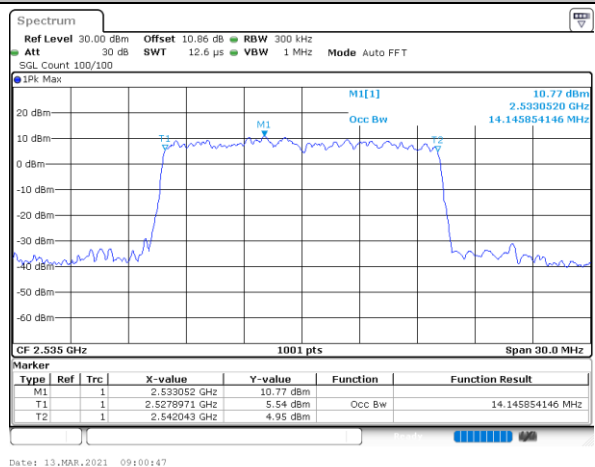
16QAM

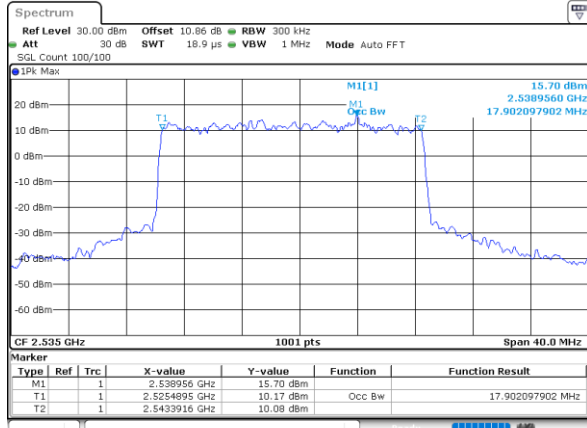


64QAM

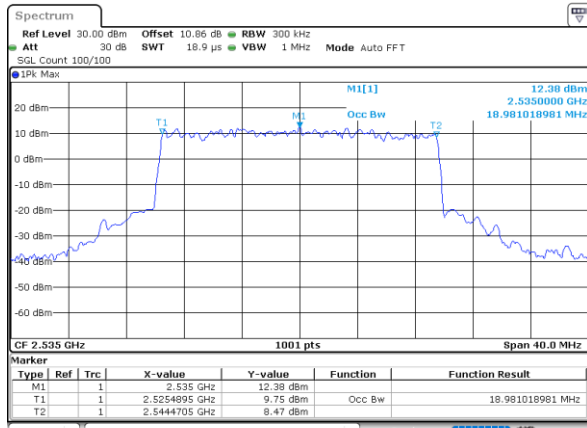


256QAM

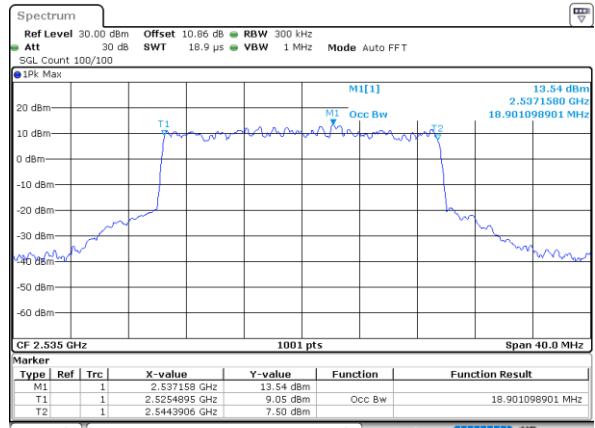


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK


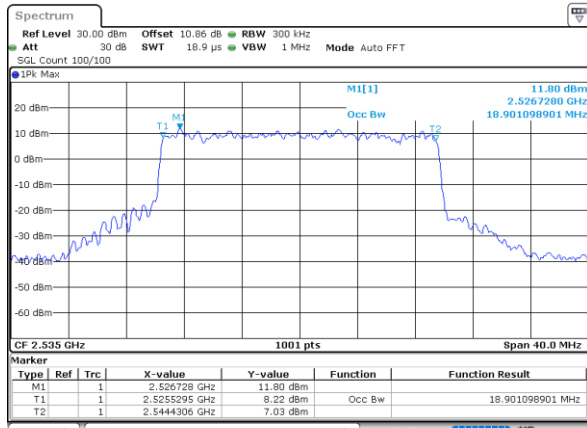
Date: 13.MAR.2021 07:28:23

FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB
QPSK


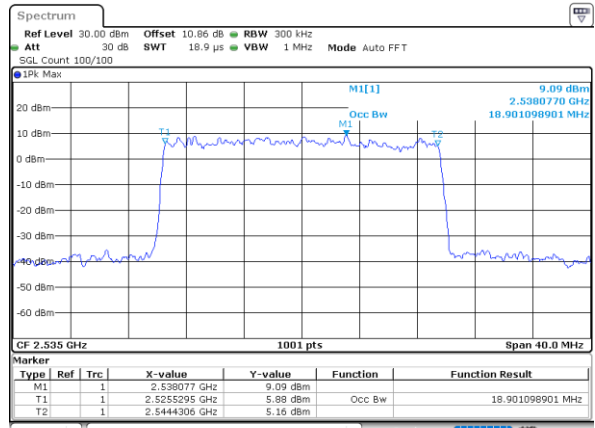
Date: 13.MAR.2021 07:31:20

16QAM


Date: 13.MAR.2021 07:30:59

64QAM


Date: 13.MAR.2021 07:30:35

256QAM


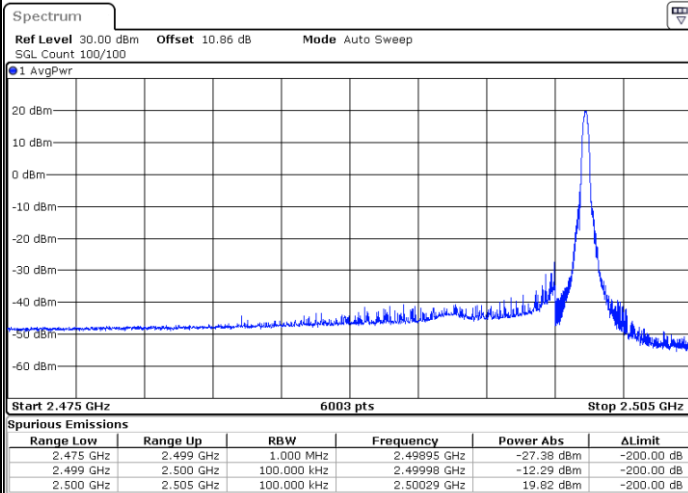
Date: 13.MAR.2021 07:30:14

**Conducted Band Edge**

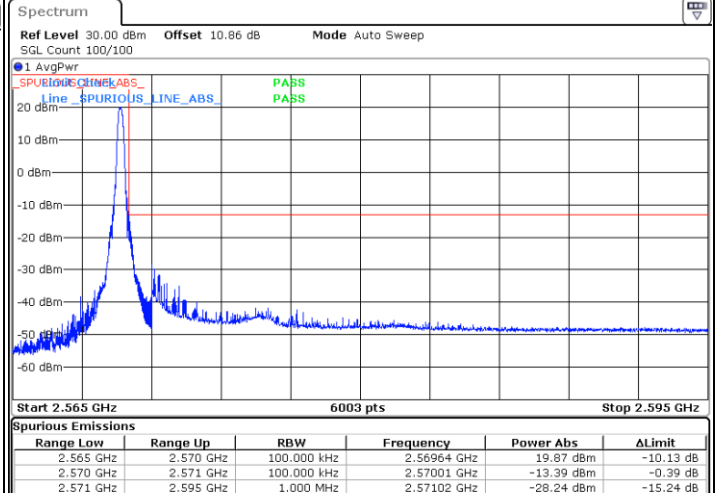
FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

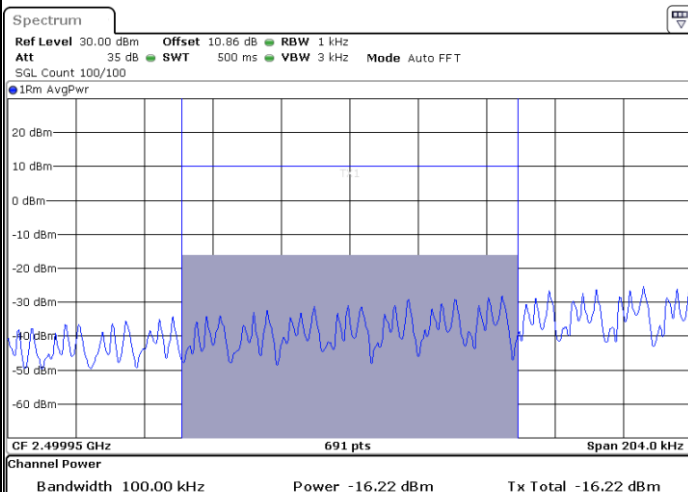


Date: 18.MAR.2021 18:23:08



Date: 18.MAR.2021 18:29:41

Channel Power -16.22dBm < -13dBm (Pass)

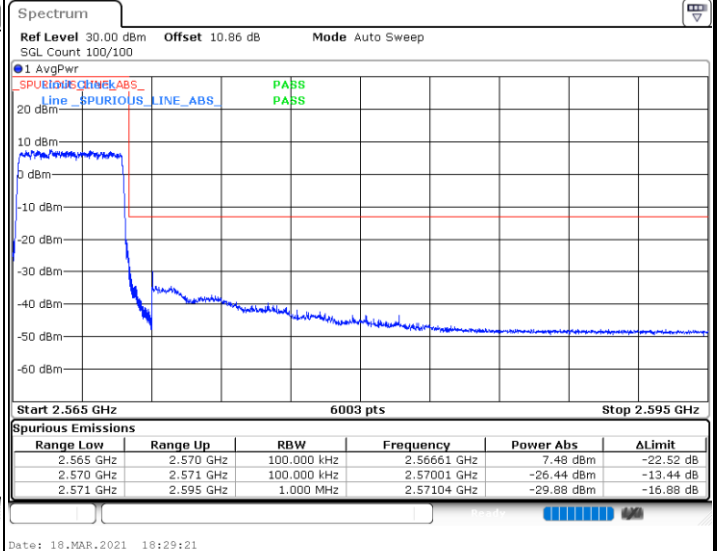
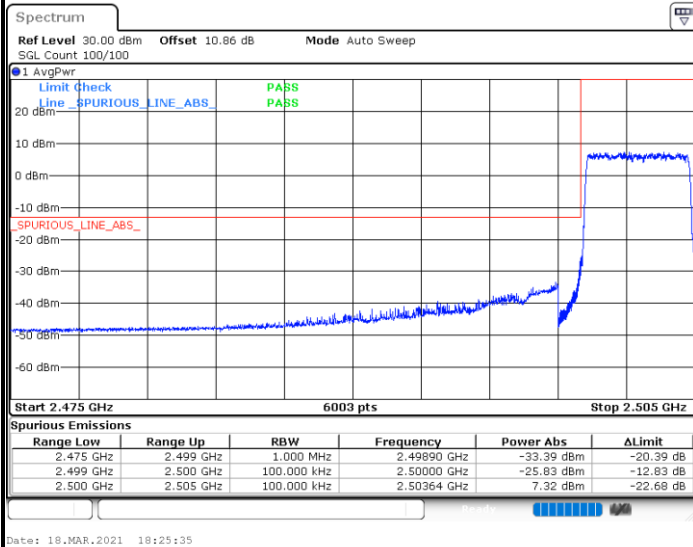


Date: 18.MAR.2021 18:25:06



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

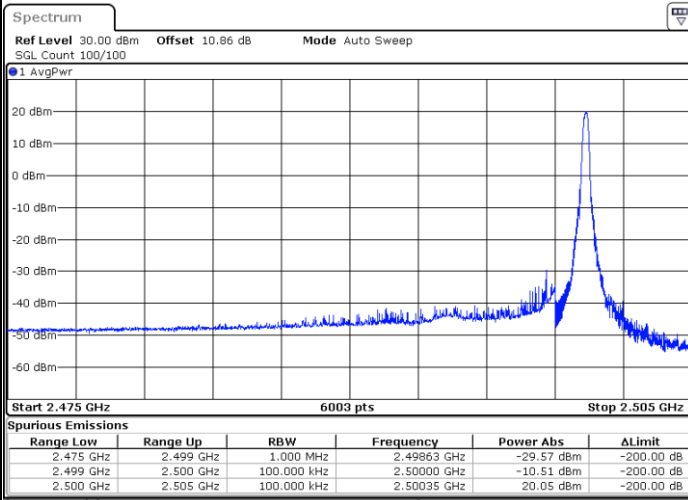




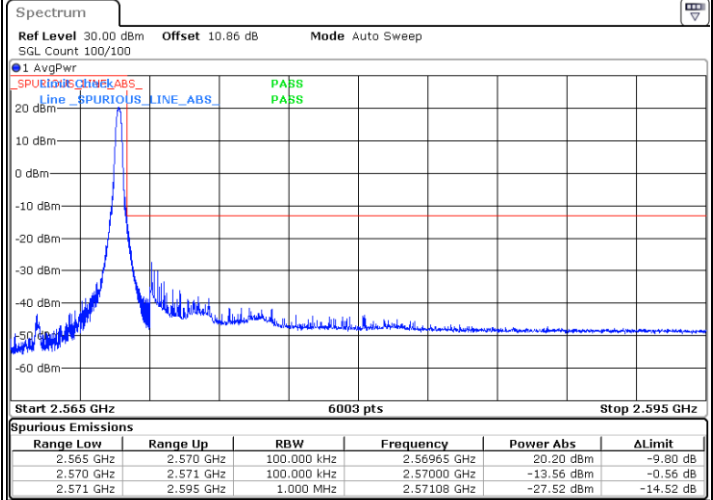
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

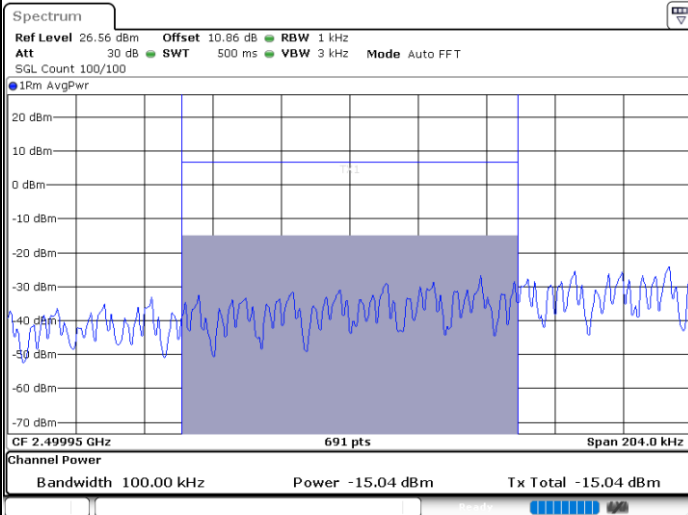


Date: 18.MAR.2021 18:22:45



Date: 18.MAR.2021 18:30:01

Channel Power -15.04dBm < -13dBm (Pass)

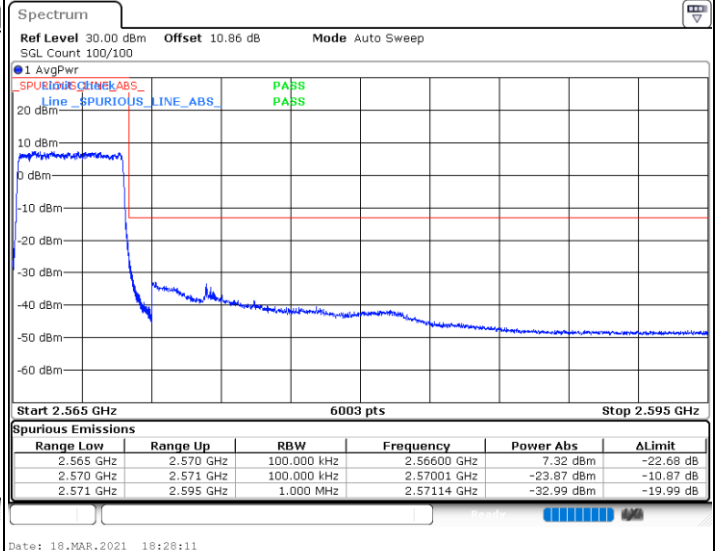
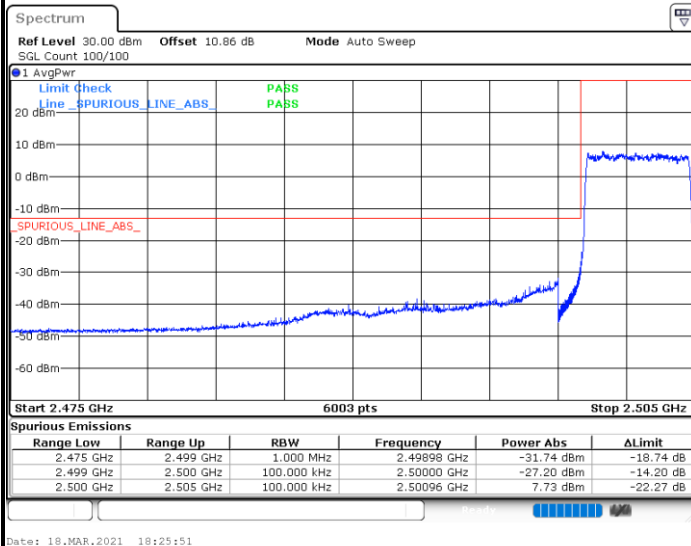


Date: 18.MAR.2021 10:39:19



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

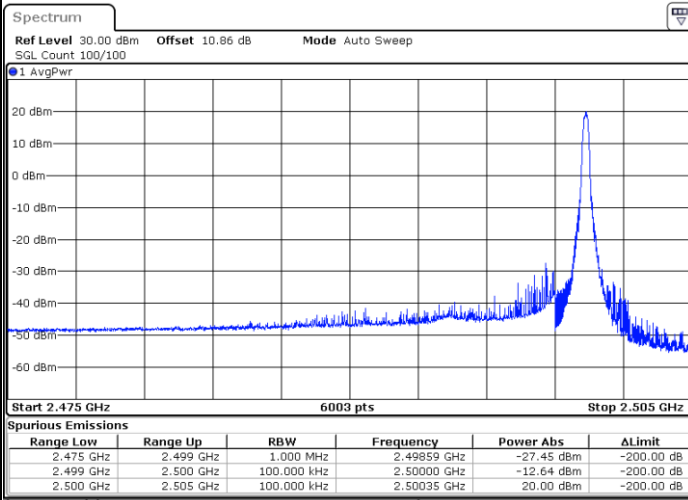




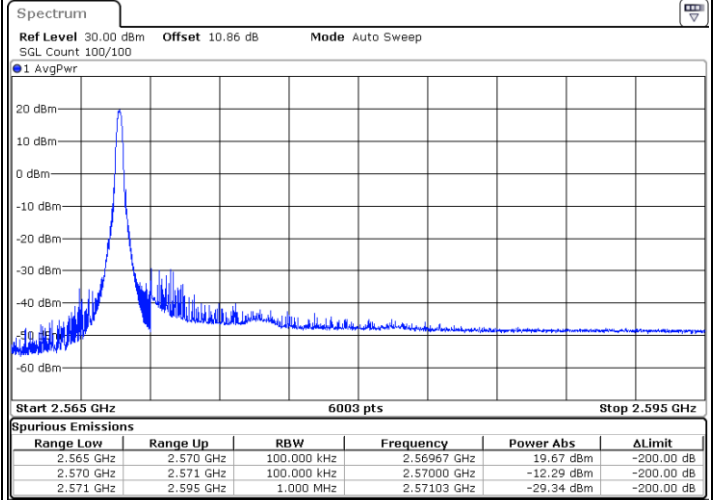
FR1 n7 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



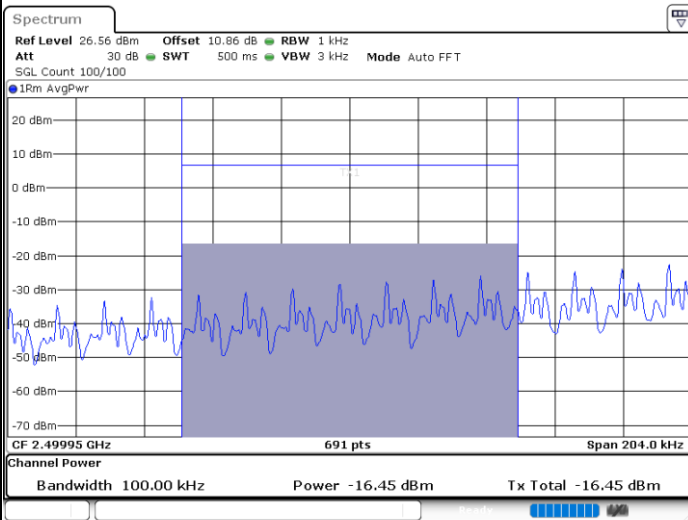
Date: 18.MAR.2021 18:22:22



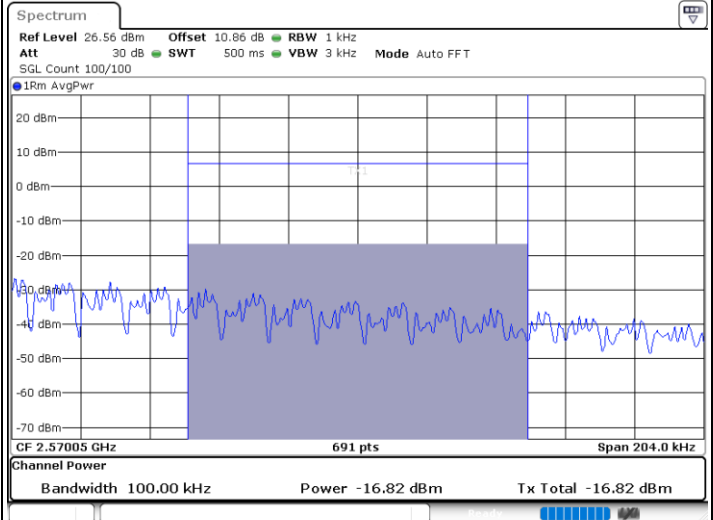
Date: 18.MAR.2021 18:31:30

Channel Power -16.45dBm < -13dBm (Pass)

Channel Power -16.82dBm < -13dBm (Pass)



Date: 18.MAR.2021 10:41:14

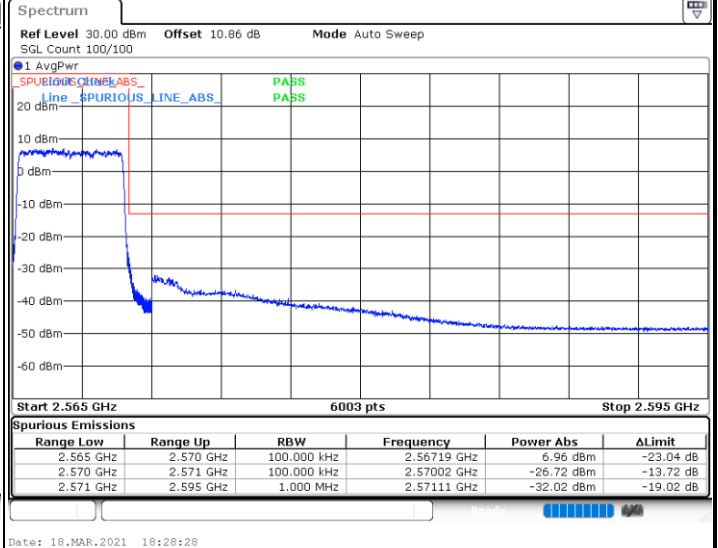
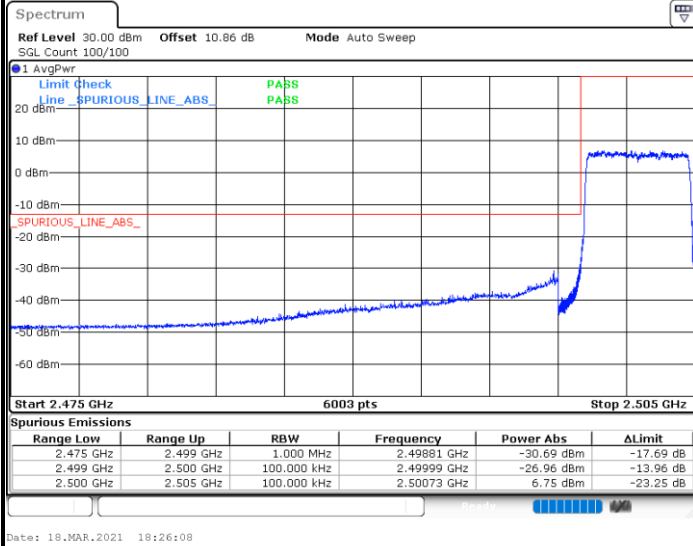


Date: 18.MAR.2021 11:48:45



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

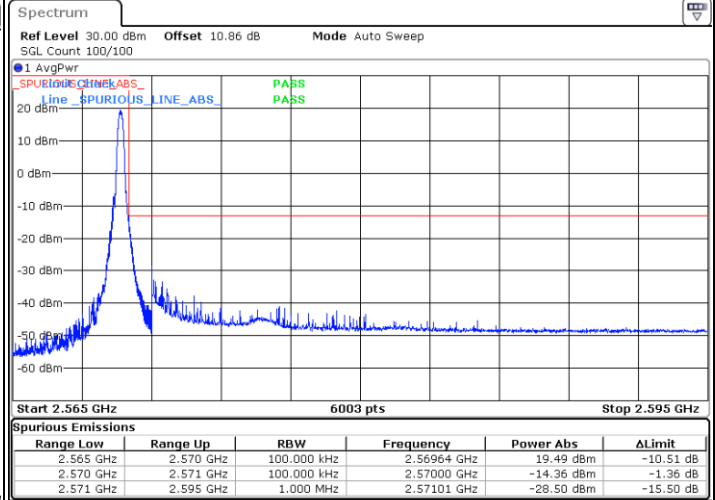
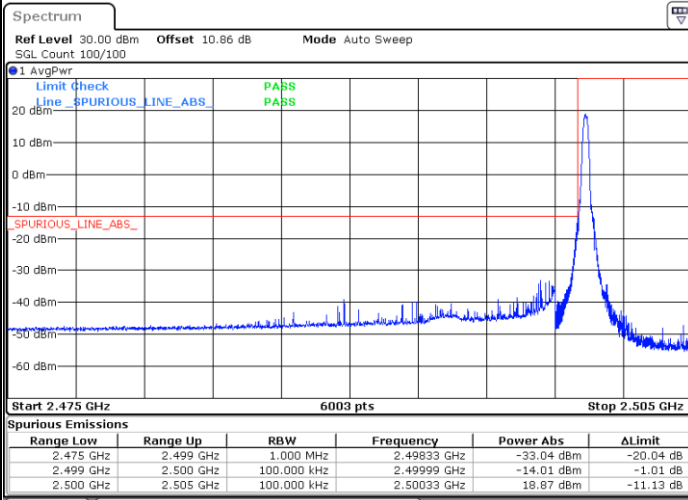




FR1 n7 / 5MHz / DFT-S OFDM / 64QAM

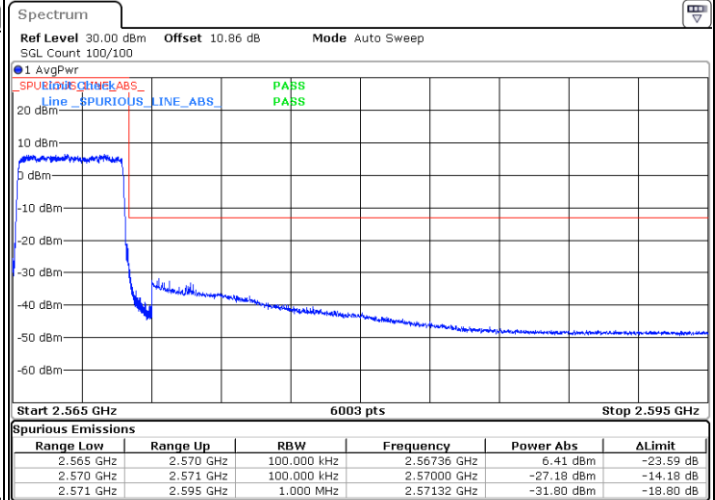
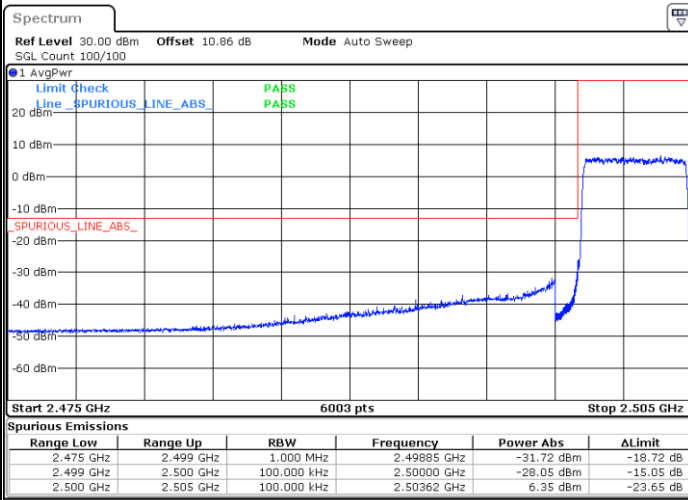
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

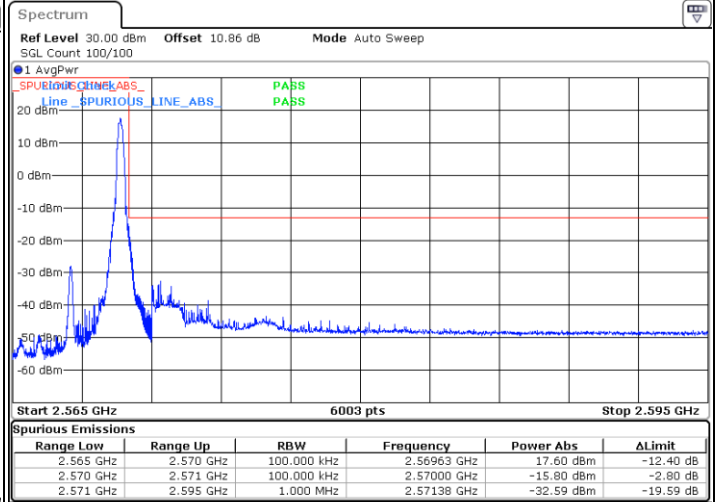
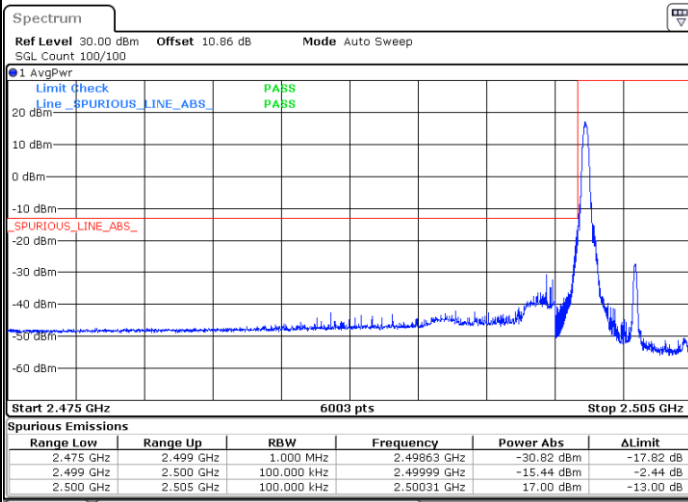




FR1 n7 / 5MHz / DFT-S OFDM / 256QAM

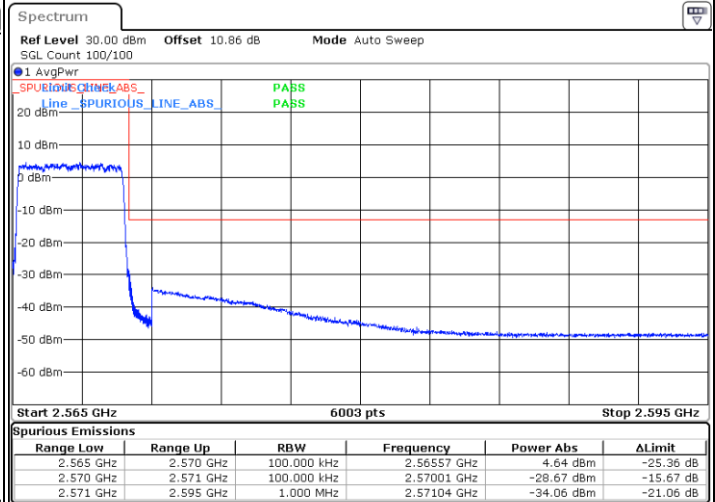
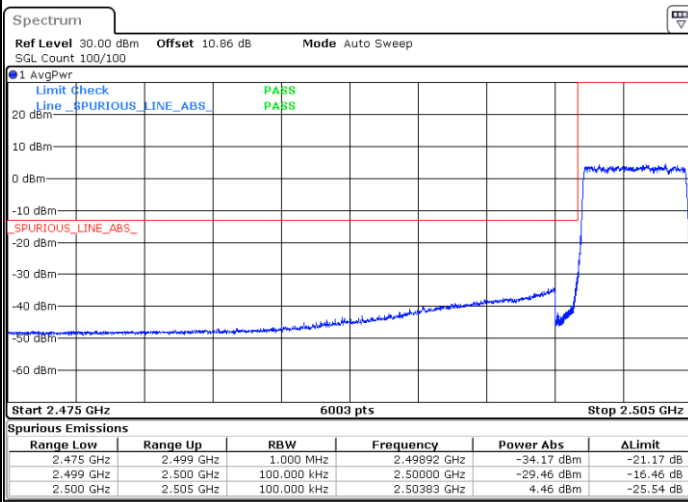
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

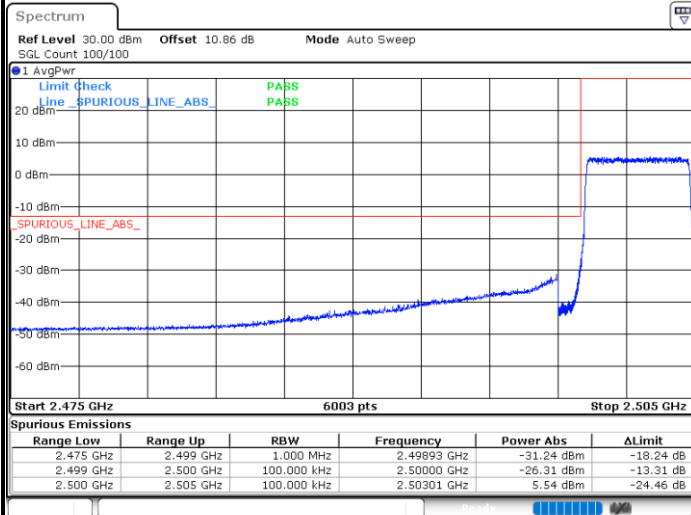
Highest Band Edge / Full RB



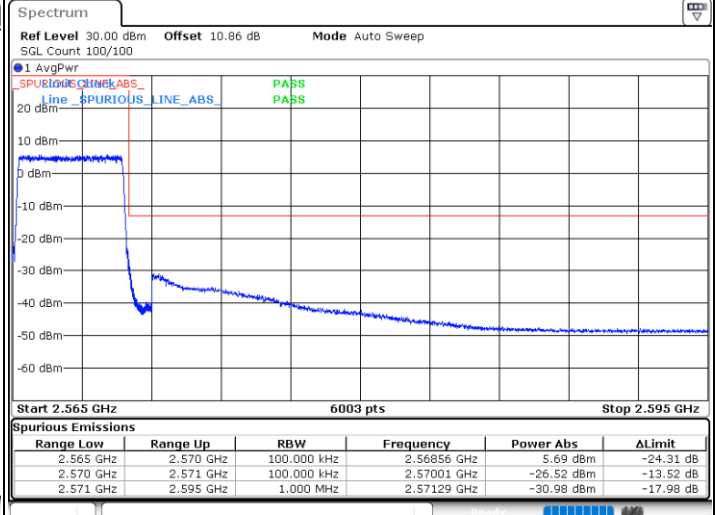


FR1 n7 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Highest Band Edge

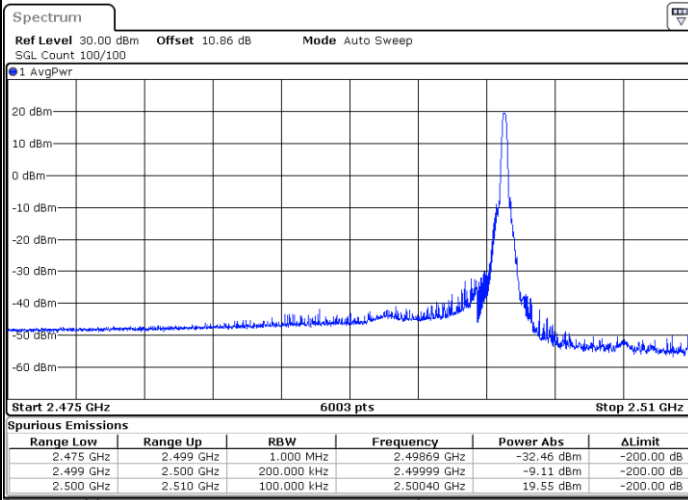




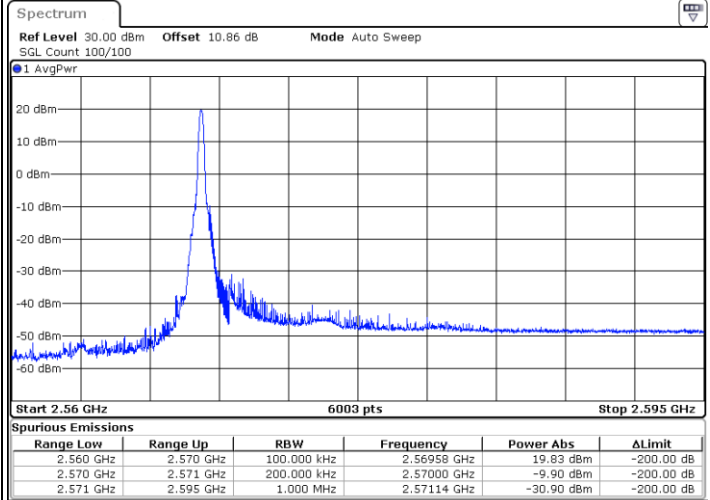
FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



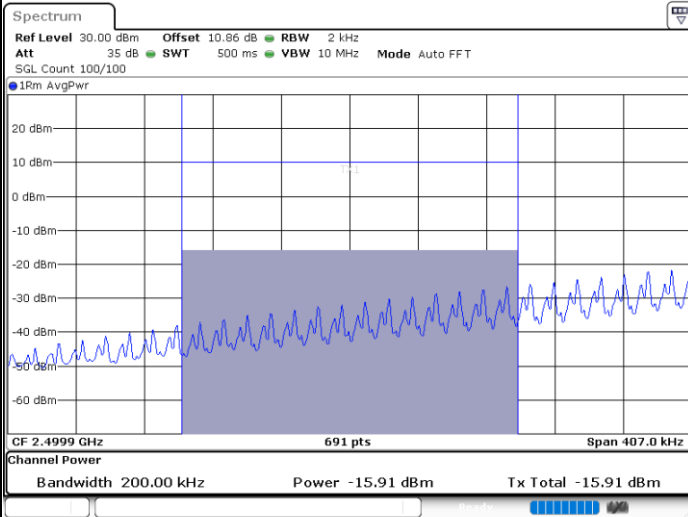
Date: 18.MAR.2021 18:06:38



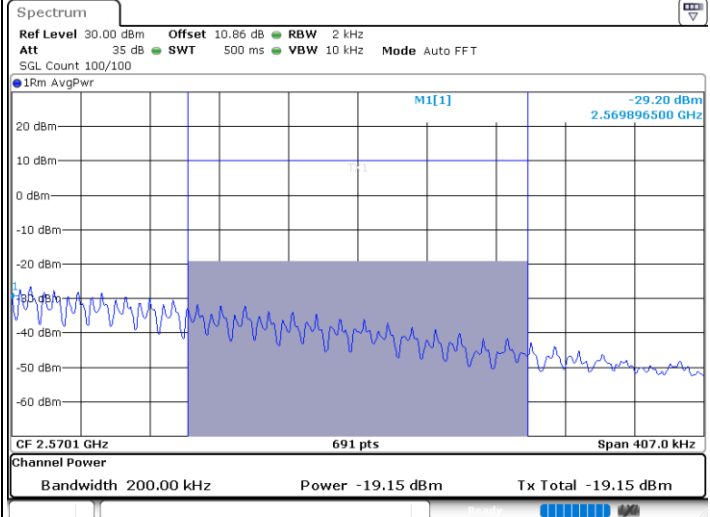
Date: 18.MAR.2021 18:15:31

Channel Power -15.91dBm < -13dBm (Pass)

Channel Power -19.15dBm < -13dBm (Pass)



Date: 18.MAR.2021 14:32:39

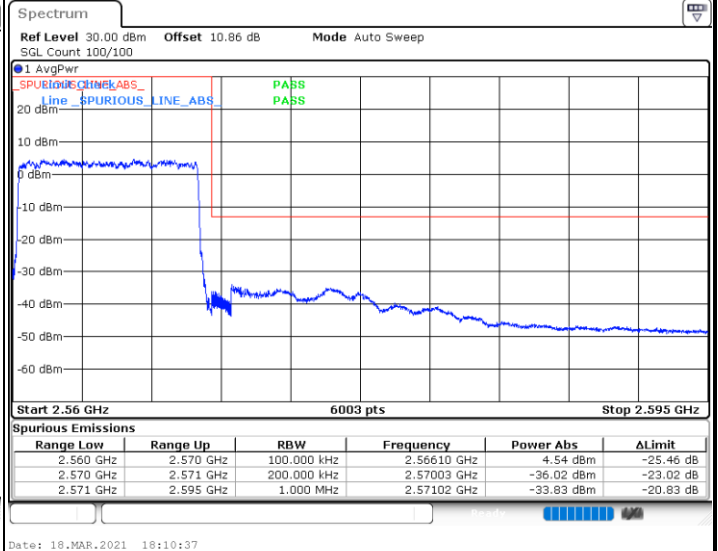
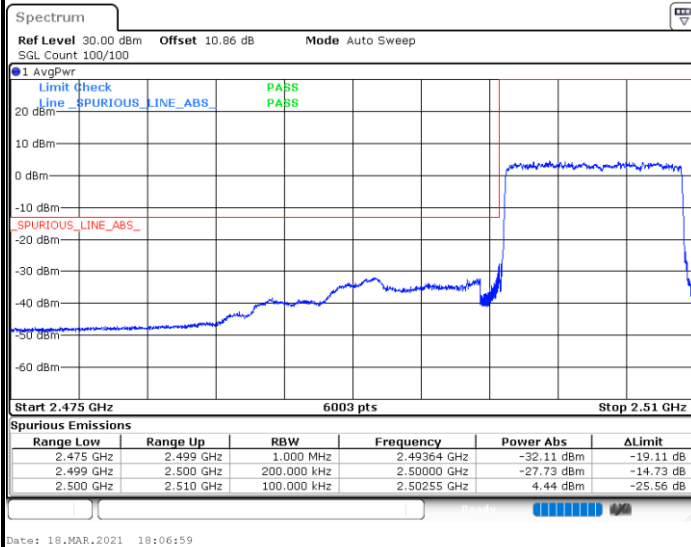


Date: 18.MAR.2021 14:49:56



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

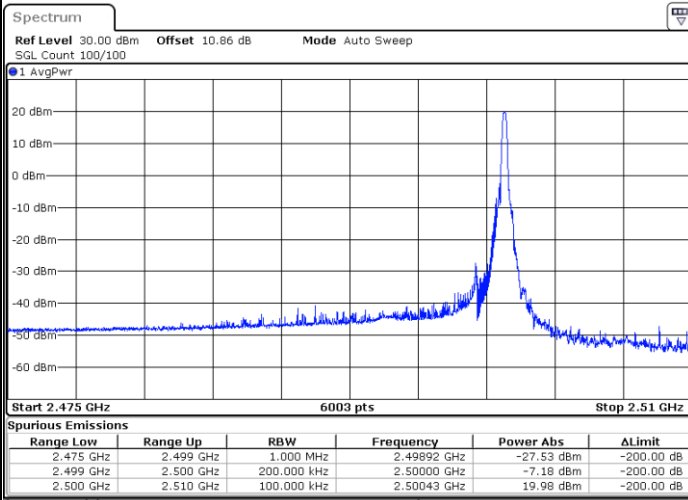




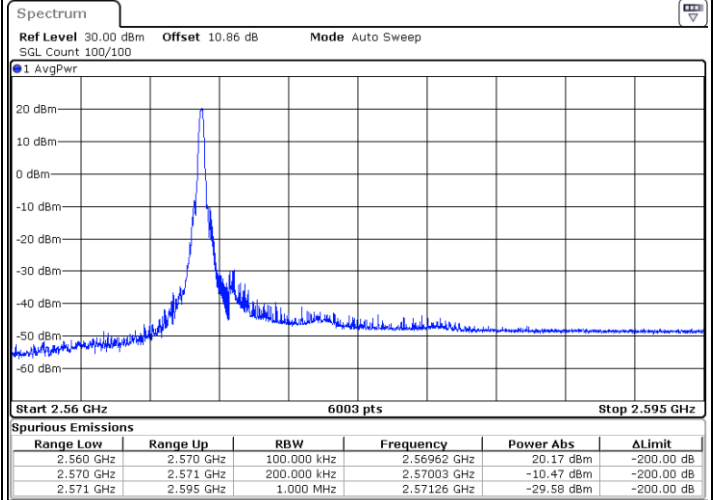
FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



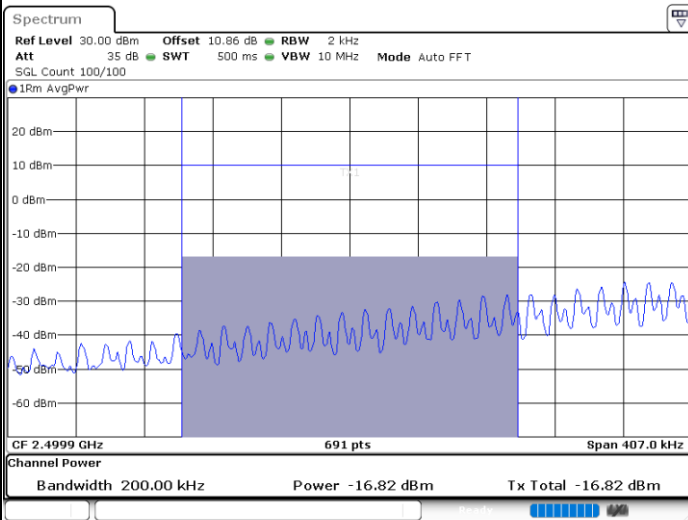
Date: 18.MAR.2021 18:06:16



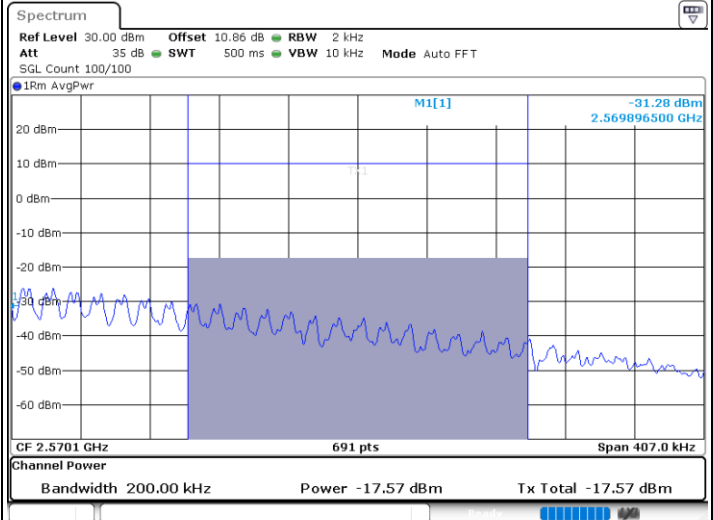
Date: 18.MAR.2021 18:15:57

Channel Power -16.82dBm < -13dBm (Pass)

Channel Power -17.57dBm < -13dBm (Pass)



Date: 18.MAR.2021 14:33:49

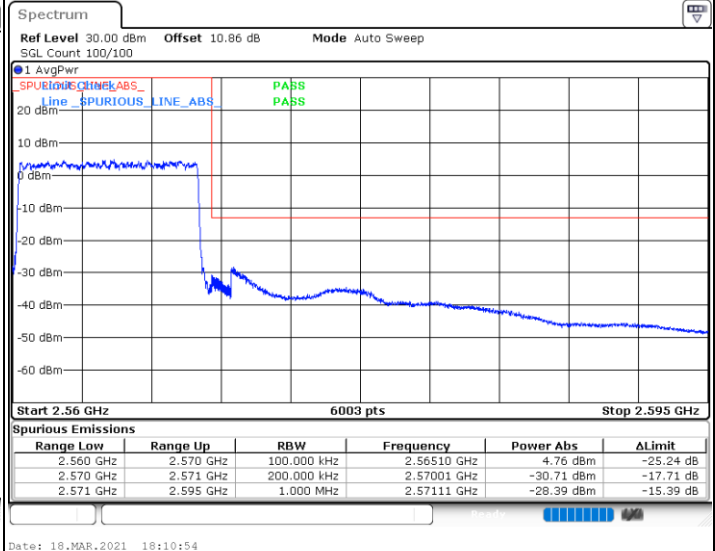
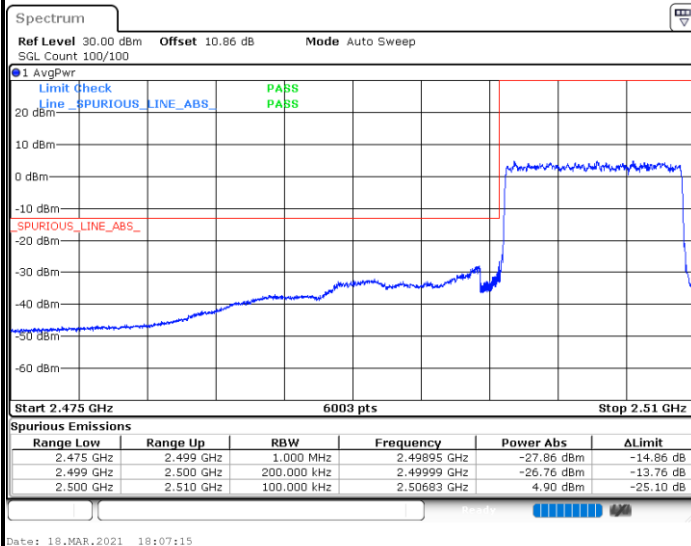


Date: 18.MAR.2021 14:51:12



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

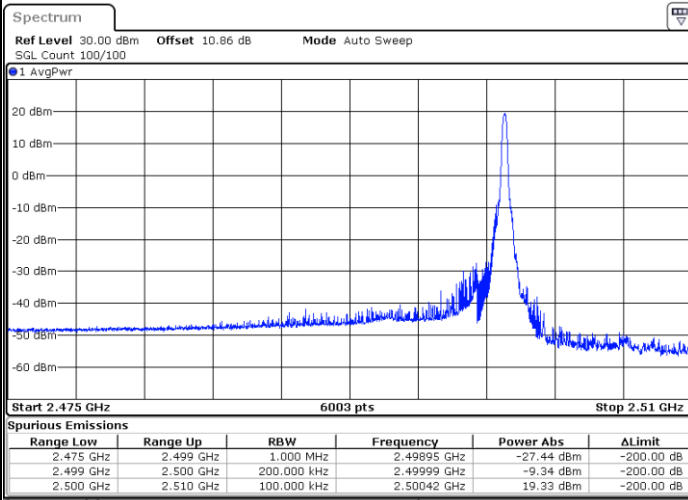




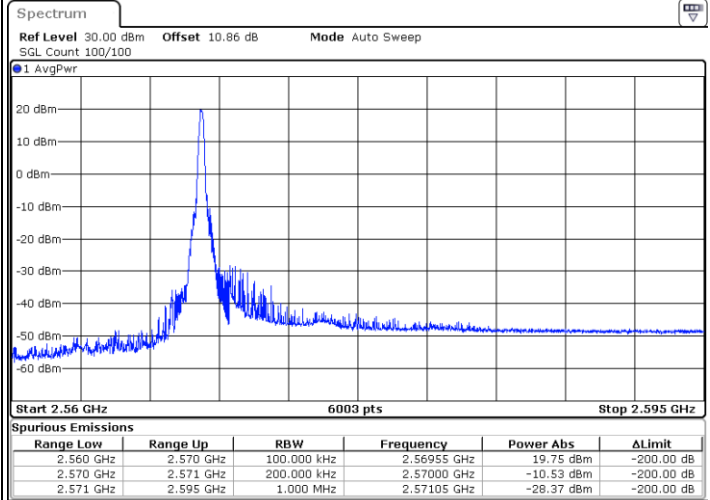
FR1 n7 / 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



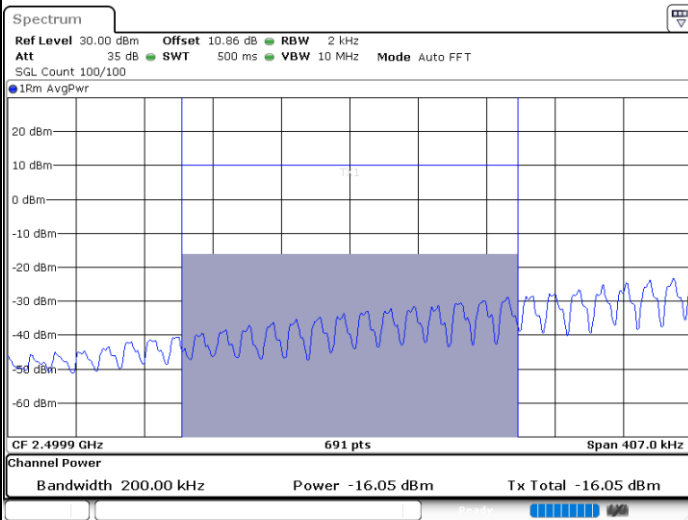
Date: 18.MAR.2021 18:05:54



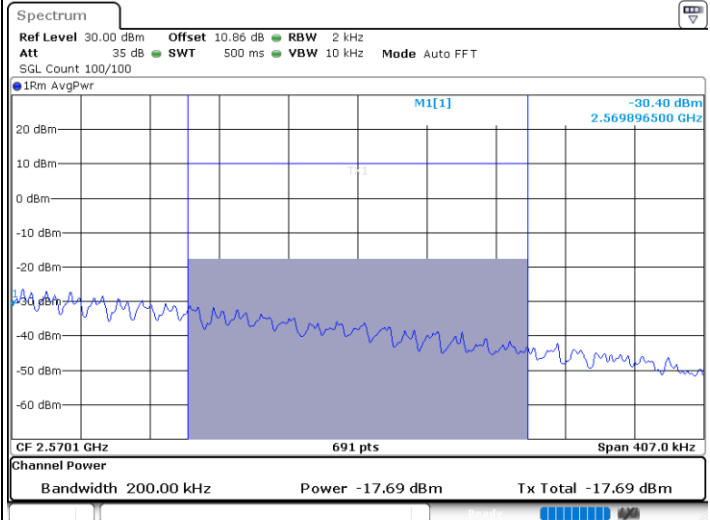
Date: 18.MAR.2021 18:16:18

Channel Power -16.05dBm < -13dBm (Pass)

Channel Power -17.69dBm < -13dBm (Pass)



Date: 18.MAR.2021 14:34:56

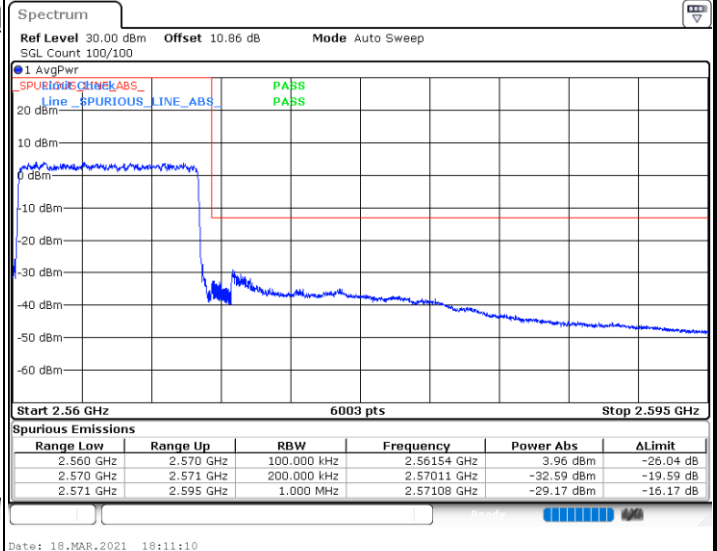
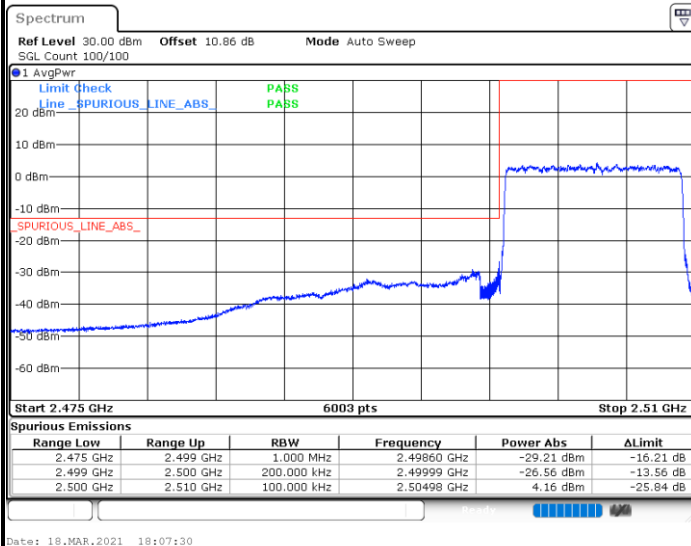


Date: 18.MAR.2021 14:52:31



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

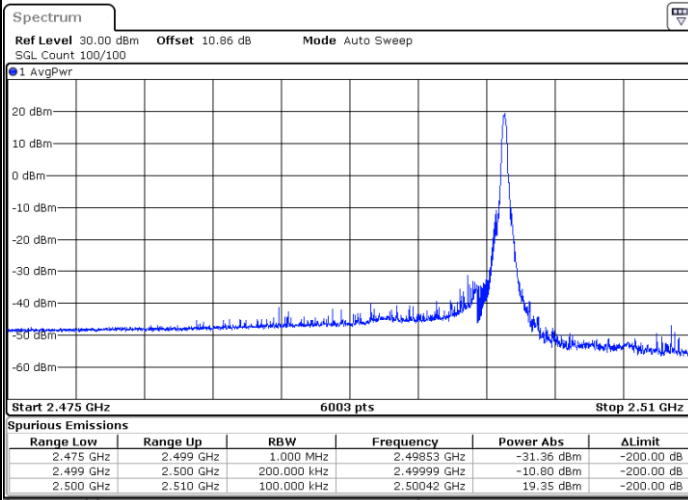




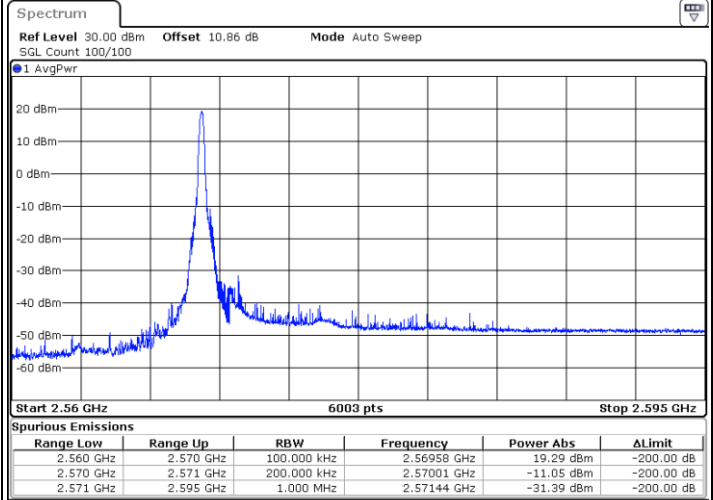
FR1 n7 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



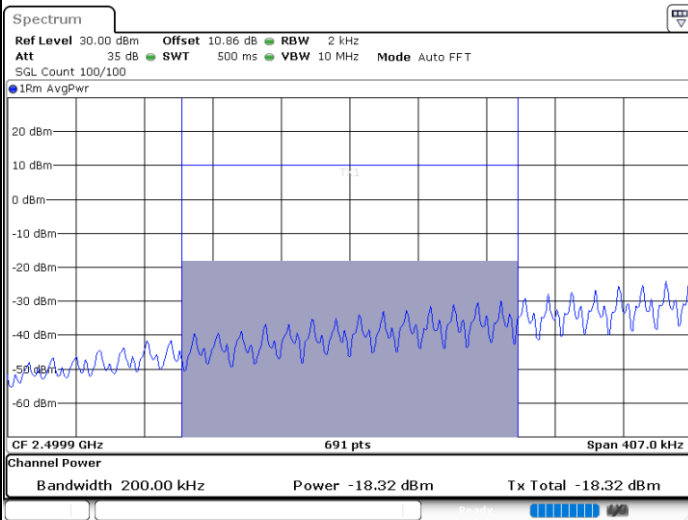
Date: 18.MAR.2021 18:05:32



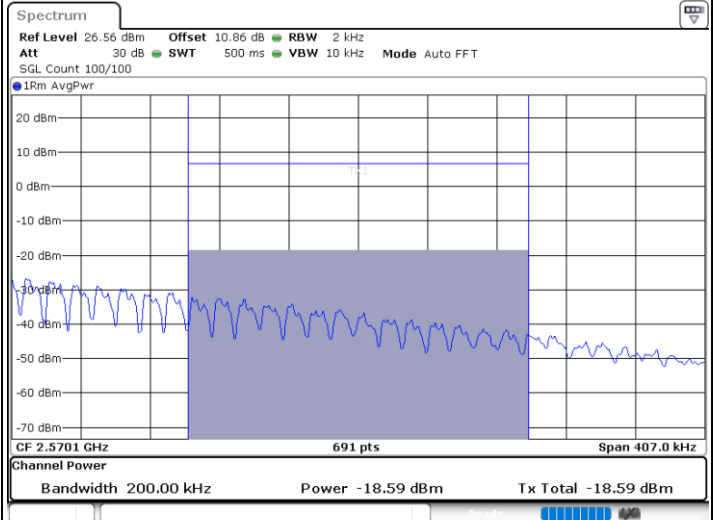
Date: 18.MAR.2021 18:16:39

Channel Power -18.32dBm < -13dBm (Pass)

Channel Power -18.59dBm < -13dBm (Pass)



Date: 18.MAR.2021 14:36:11

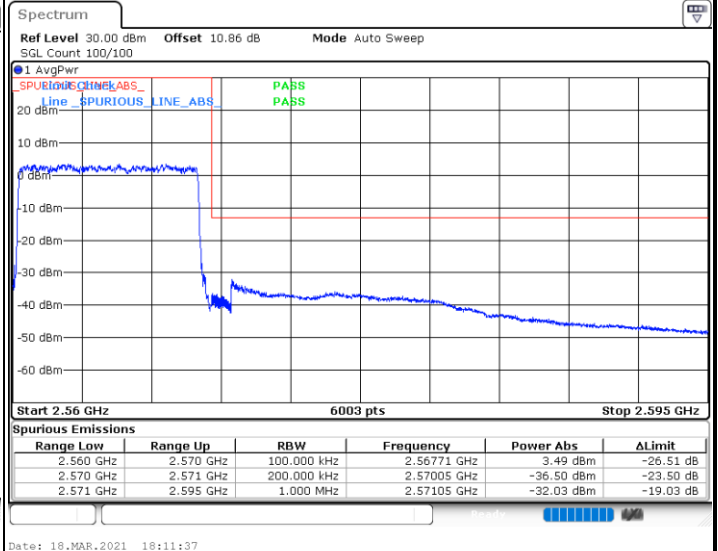
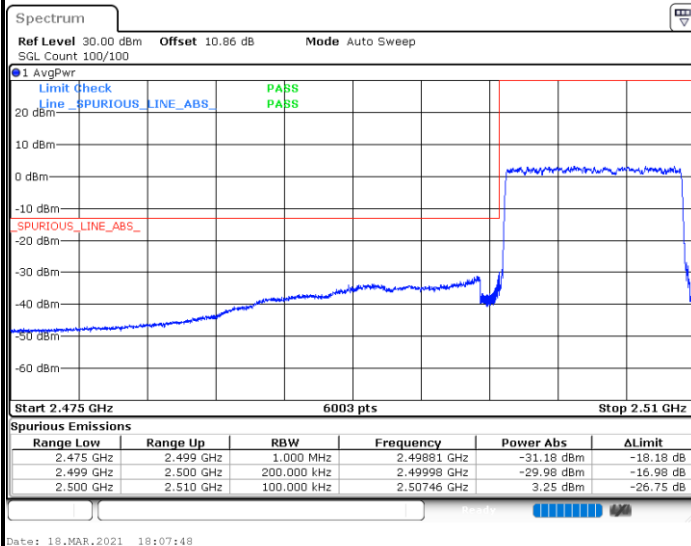


Date: 18.MAR.2021 18:19:17



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

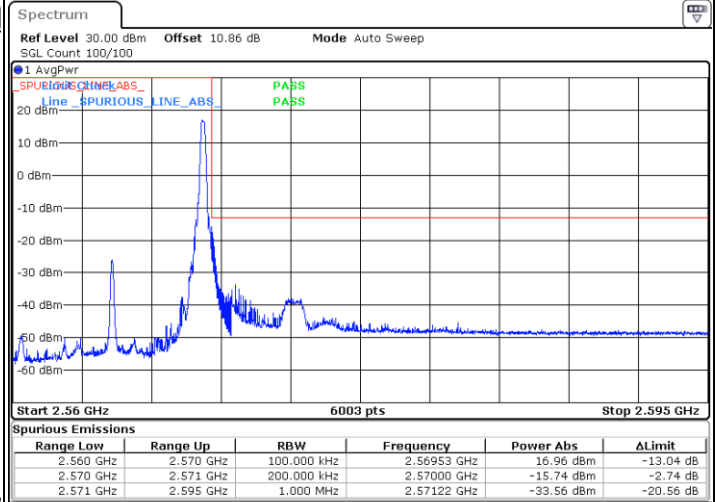
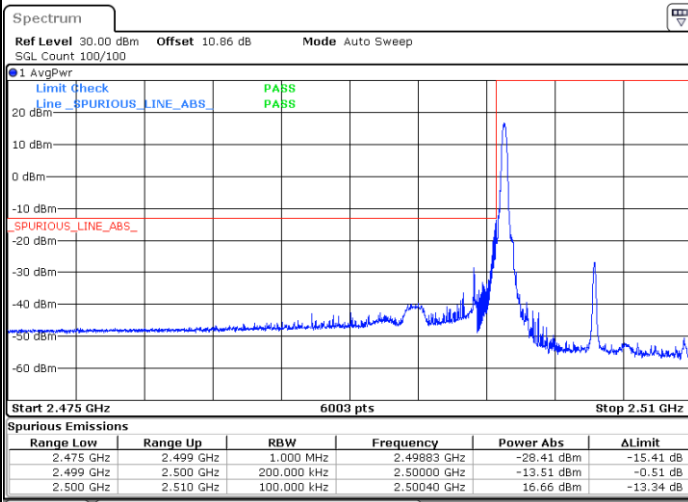




FR1 n7 / 10MHz / DFT-s-OFDM / 256QAM

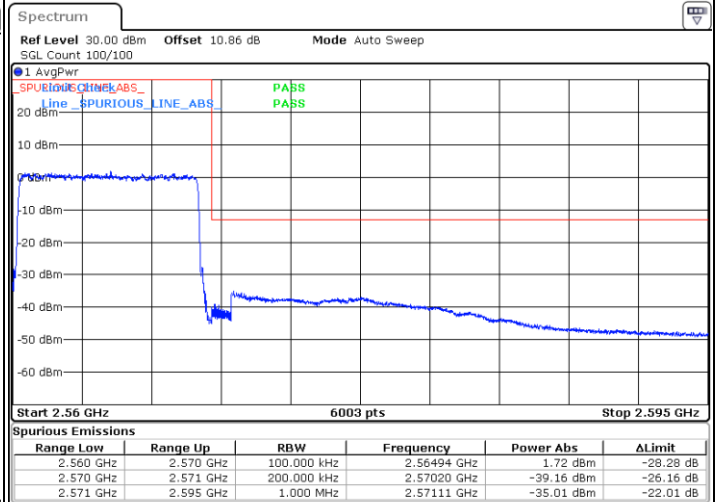
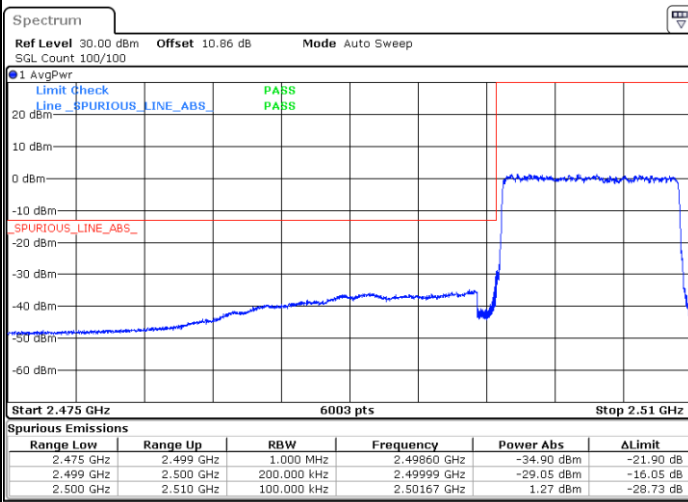
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

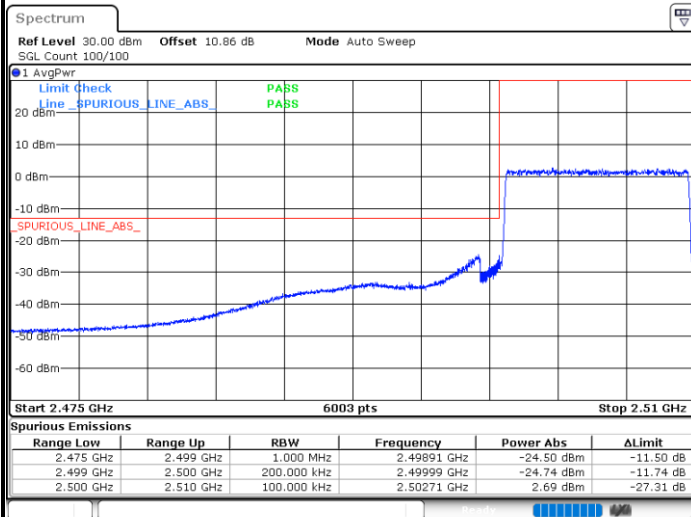
Highest Band Edge / Full RB





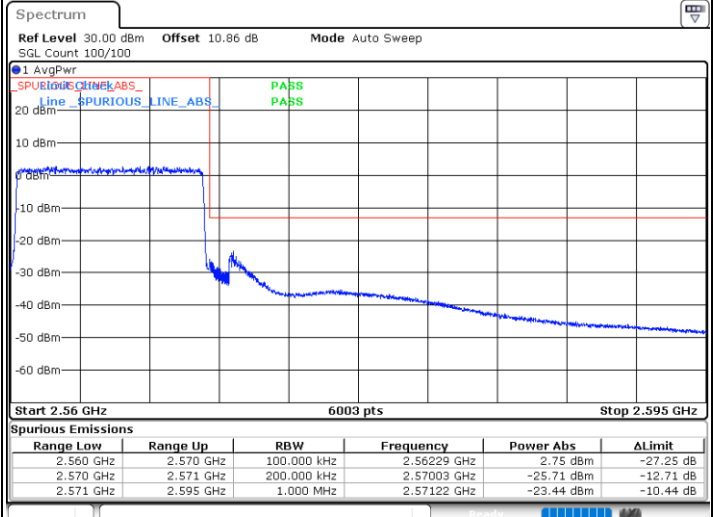
FR1 n7 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge



Date: 18.MAR.2021 18:08:43

Highest Band Edge



Date: 18.MAR.2021 18:10:10