FCC RADIO TEST REPORT

FCC ID	:	GKRRMLN1T
Equipment	:	5G LGA Module
Brand Name	:	COMPAL
Model Name	:	RML-N1t
Marketing Name	:	5G LGA Module
Applicant	:	Compal Electronics, Inc. No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan
Manufacturer	:	Compal Electronics, Inc. No.581 & 581-1, Ruiguang Rd., Neihu District, Taipei, (114) Taiwan
Standard	:	FCC 47 CFR Part 2, 24(E), 27

The product was received on Dec. 15, 2022 and testing was performed from Dec. 19, 2022 to Mar. 06, 2023. 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 report apply exclusively to the tested model / sample. Without written approval from 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	Issue Date
FG2N2510-01B	01	Initial issue of report	Mar. 15, 2023
FG2N2510-01B	02	1. Revise Product Feature of Equipment Under Test and Support Unit used in test configuration and system. 2. This report is an updated version, replacing the report issued on Mar. 15, 2023.	Mar. 24, 2023

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 (c)(10)	Effective Radiated Power (n71)	Pass	
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n25) (n41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n66)		
3.3	§24.232 (d) §27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n41)		
3.6	§2.1051 §24.238 (a) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n25) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n41)		
3.7	§2.1055 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §24.238 (a) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n25) (n66) (n71)	Pass	1.32 dB under the limit at 7632.000 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n41)		

Declaration of Conformity:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to report "Uncertainty of Evaluation".
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR and GNSS

The following antennas were provided to the EUT

5G NR	Band	Antenna Port	RF Exposure Max Antenna Gain(dBi)
5G NR	n25	OAI2/EA2/DA2	8
		OAI4/EA4/DA4	
	n41	OAI1/EA1_5	6.8
		OAI2/EA2/DA2	
		OAI3/EA3_6	
		OAI4/EA4/DA4	
	n66	OAI2/DA2/OAI4/DA4	5
		EA2/EA4	5.5
	n71	OAI0	5

Remark: The EUT's information above is declared by manufacturer.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

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	03CH07-HY
Test Engineer	Jimmy Chang and George Chen	Jesse Wang, Stan Hsieh and Ken Wu
Temperature (℃)	23.5~24.1	16~25.5
Relative Humidity (%)	48~52	49~72.3

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

FCC Designation No.: TW1190

1.4 Applicable Standards

According to the specifications declared by 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, 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.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

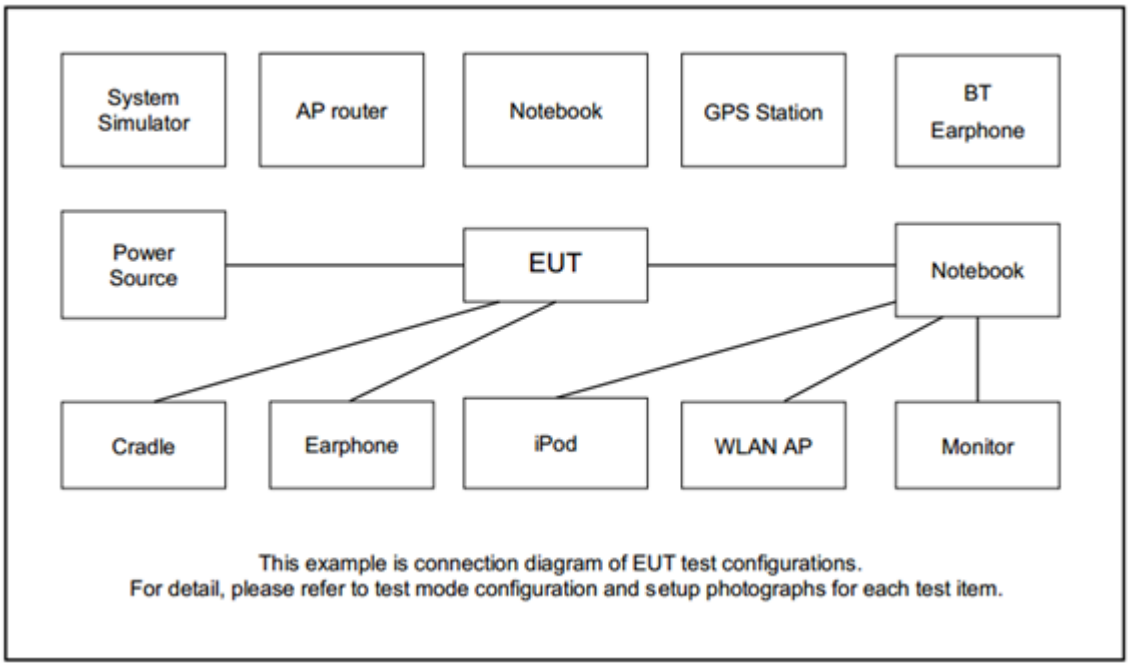
Test Items	NR Band	Bandwidth (MHz)													Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n41_ HPUE	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	n66	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n25				v				-	-	-	-	-	-	v	v	v	v	v			v		v	
	n41_ HPUE	-			v	-									v	v	v	v	v			v		v	
	n66				v				-	-	-	-	-	-	v	v	v	v	v			v		v	
	n71				v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n41_ HPUE	-	v	v	v	-	v	v	v	v	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	
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
Conducted Band Edge	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v		v	v		v
	n41_ HPUE	-	v	v	v	-	v	v	v	v	v	v	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		v
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n25	v							-	-	-	-	-	-		v				v			v	v	v
	n41_ HPUE	-	v			-										v				v			v	v	v
	n66	v							-	-	-	-	-	-		v				v			v	v	v
	n71	v				-	-	-	-	-	-	-	-	-		v				v			v	v	v

Test Items	NR Band	Bandwidth (MHz)													Modulation					RB #			Test Channel		
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Frequency Stability	n25				v				-	-	-	-	-	-	v							v		v	
	n41_HPUE	-			v	-									v	v						v		v	
	n66				v				-	-	-	-	-	-	v							v		v	
	n71				v	-	-	-	-	-	-	-	-	-	v							v		v	
E.R.P / E.I.R.P	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	Max Power					
	n41_HPUE	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v						
	n66	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
Radiated Spurious Emission	n25	Worst Case																					v	v	v
	n41_HPUE	Worst Case																					v	v	v
	n66	Worst Case																					v	v	v
	n71	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.
5. One representative bandwidth is selected to perform PAR and frequency stability.
6. 5G NR n25 support Antenna OAI 2, DA 2, EA 2, OAI 4, DA 4, EA 4, for Radiated Spurious Emission is full test (the Antenna OAI 4, DA 4,EA 4 test combination are EN-DC 66A-n25A) ,in Conducted test ietms are verified, the worst case is Antenna OAI 2. Therefore, only performed the Antenna OAI 2 test results in this report.
7. 5G NR n41 SISO mode support Antenna OAI 2, DA 2, EA 2, OAI 4, DA 4, EA 4, OAI 3, EA 3_6, OAI 1, EA 1_5, for Radiated Spurious Emission is full test ,in Conducted test ietms are verified, the worst case is Antenna OAI 4. Therefore, only performed the Antenna OAI 4 test results in this report.
8. 5G NR n41 MIMO mode support Antenna OAI 4+OAI 2, DA 4+DA 2, EA 4+EA 2, OAI 4+OAI 3, EA 4+EA 3_6, OAI 4+OAI 1, EA 4+EA 1_5, OAI 2+OAI 3, EA 2+EA 3_6, OAI 2+OAI 1, EA 2+EA 1_5, OAI 3+OAI 1, EA 3_6+EA 1_5 for Radiated Spurious Emission is full test ,in Conducted test ietms are verified, the worst case is Antenna OAI 4+OAI 2. Therefore, only performed the Antenna OAI 4+OAI 2 test results in this report.
9. 5G NR n66 supports Antenna OAI2, DA2, EA2, OAI4, DA4, EA4, among when switching to Antenna EA 2 & EA 4, there are Power back off mechanism and different Tune up power, in conducted power are Verified, the worst case is Antenna EA 1_5 test results are included in this report, for Radiated Spurious Emission is full test (the Antenna OAI 4, DA 4, EA 4 test combination are EN-DC 2A-n66A) ,in Conducted test items are verified, the worst case is Antenna OAI2. Therefore, only performed the Antenna OAI2 test results in this report.
10. 5G NR n71 only support Antenna OAI 0.
11. For 5G NR n25, n66, n71 BW:10/15/20/25/30/40 support SCS 15kHz & SCS 30 kHz, after verified, the worst case is SCS 15kHz. Therefore, only performed the SCS 15kHz test results for Conducted test item in this report.
12. For 5G NR n41 BW:10/15/20/30/40 support SCS 15kHz & SCS 30 kHz, after verified, the worst case is SCS 30kHz. Therefore, only performed the SCS 30kHz test results for Conducted test item in this report.

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.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	Antenna (Type: Monopole)	Inpaq	ANT0	N/A	N/A	N/A
4.	Antenna (Type: Monopole)	Inpaq	ANT1	N/A	N/A	N/A
5.	Antenna (Type: Monopole)	Inpaq	ANT2	N/A	N/A	N/A
6.	Antenna (Type: Monopole)	Inpaq	ANT3	N/A	N/A	N/A
7.	Antenna (Type: Monopole)	Inpaq	ANT4	N/A	N/A	N/A

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 :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n25 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
40	Channel	374000	376500	379000
	Frequency	1870	1882.5	1895
30	Channel	373000	376500	380000
	Frequency	1865	1882.5	1900
25	Channel	372500	376500	380500
	Frequency	1862.5	1882.5	1902.5
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 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
70	Channel	506202	518598	531000
	Frequency	2531.01	2592.99	2655
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
30	Channel	502200	518598	534996
	Frequency	2511	2592.99	2674.98
20	Channel	501204	518598	535998
	Frequency	2506.02	2592.99	2679.99
15	Channel	500700	518598	536496
	Frequency	2503.5	2592.99	2682.48
10	Channel	500202	518598	537000
	Frequency	2501.01	2592.99	2685

5G NR n66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	346000	349000	352000
	Frequency	1730	1745	1760
30	Channel	345000	349000	353000
	Frequency	1725	1745	1765
25	Channel	344500	349000	353500
	Frequency	1722.5	1745	1767.5
20	Channel	344000	349000	354000
	Frequency	1720	1745	1770
15	Channel	343500	349000	354500
	Frequency	1717.5	1745	1772.5
10	Channel	343000	349000	355000
	Frequency	1715	1745	1775
5	Channel	342500	349000	355500
	Frequency	1712.5	1745	1777.5

5G NR 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

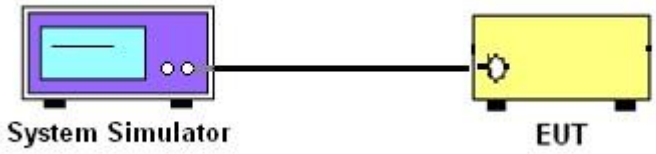
3 Conducted Test Items

3.1 Measuring Instruments

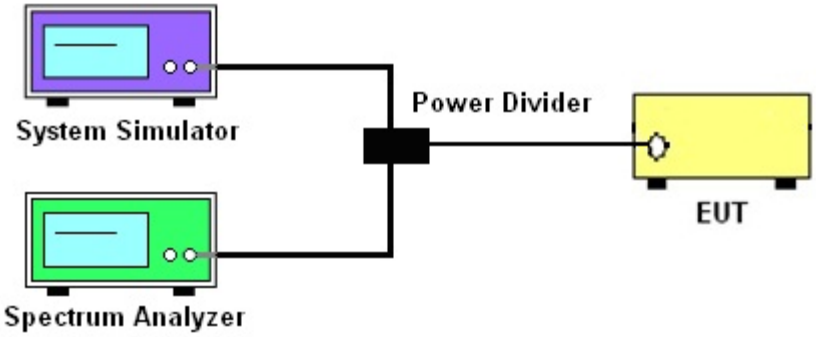
See list of measuring instruments of this test report.

3.1.1 Test Setup

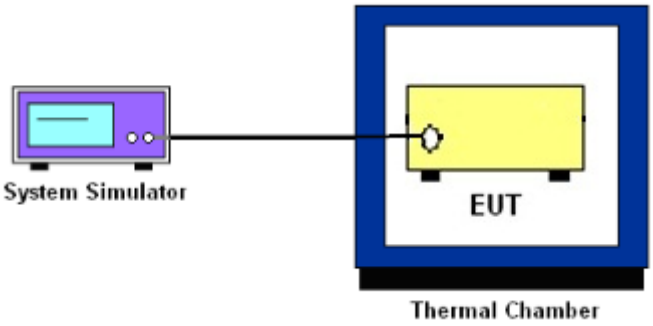
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, 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 3 Watts for 5G NR n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n25 and n41

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

The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

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

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(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 + 10log10(P[Watts]) dB below the transmitter power P(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 + 10log10(P[Watts]) dB below the transmitter power P(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)(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.

3.5.2 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 >= 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 + 10log(P)dB below the transmitter power P(Watts)
   For 5G NR n41
   The other 40 dB, and 55 dB have additionally applied same calculation above.
8. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

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.

For 5G NR n41

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.

3.6.2 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 + 10log(P)dB below the transmitter power P(Watts)

   For 5G NR n41

   The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
10. For MIMO mode, add additional MIMO factor 10log(NTX=2) = 3.01dB into the spectrum analyzer offset.

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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±5° 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.

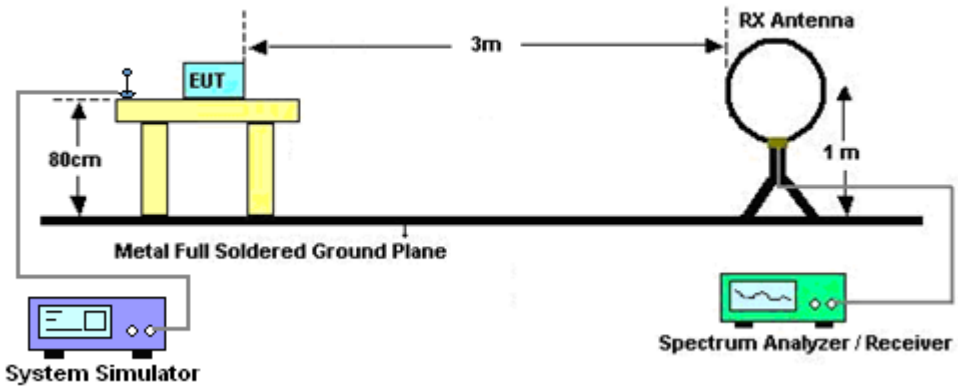
4 Radiated Test Items

4.1 Measuring Instruments

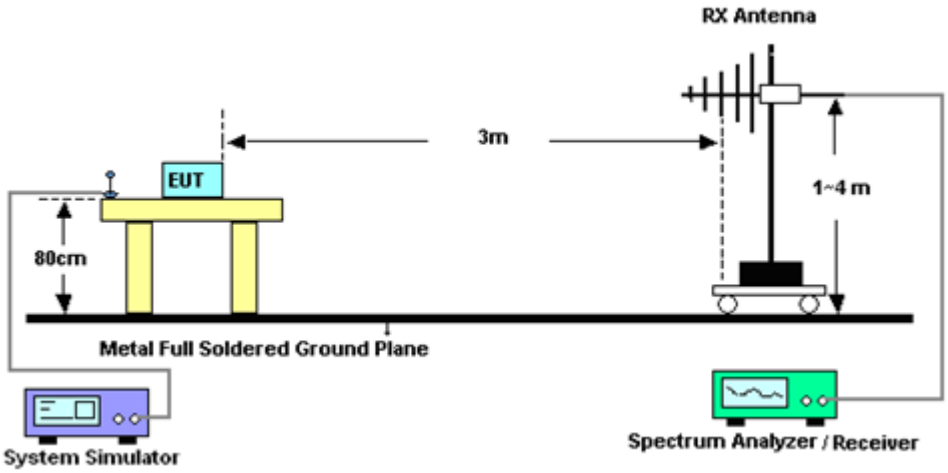
See list of measuring instruments of this test report.

4.1.1 Test Setup

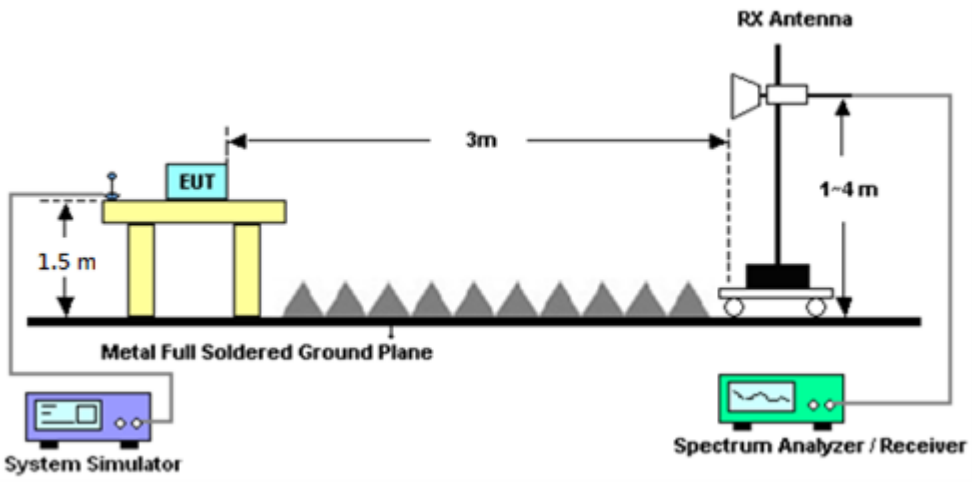
For radiated test below 30MHz



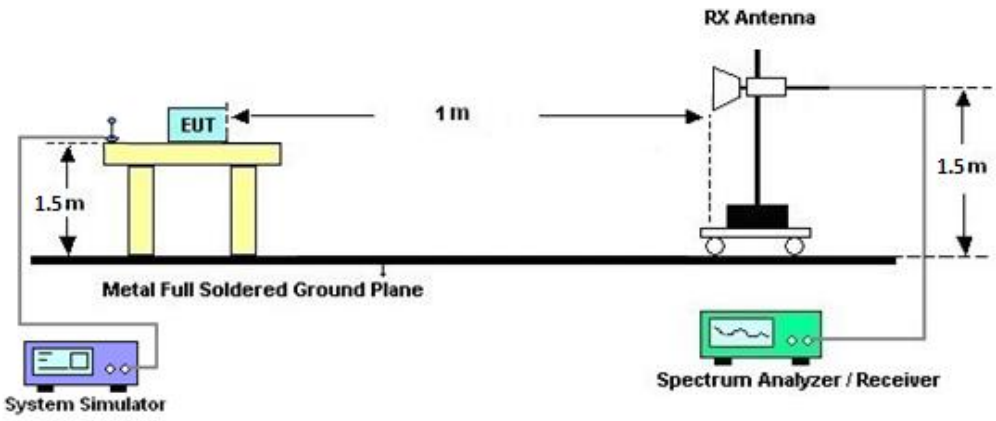
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test 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 adequate comparison measurement 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.

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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.

4.2.2 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 + 10log(P)dB below the transmitter power P(Watts)

    For 5G NR n41

    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	Dec. 30, 2022~ Feb. 07, 2023	Apr. 23, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Dec. 30, 2022~ Feb. 07, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Dec. 30, 2022~ Feb. 07, 2023	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Dec. 30, 2022~ Feb. 07, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 03, 2022	Dec. 30, 2022~ Feb. 07, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Dec. 30, 2022~ Feb. 07, 2023	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Dec. 30, 2022~ Feb. 07, 2023	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Dec. 30, 2022~ Feb. 07, 2023	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Dec. 30, 2022~ Feb. 07, 2023	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Dec. 30, 2022~ Feb. 07, 2023	Feb. 22, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Dec. 30, 2022~ Feb. 07, 2023	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Dec. 30, 2022~ Feb. 07, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Dec. 30, 2022~ Feb. 07, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Dec. 30, 2022~ Feb. 07, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Dec. 30, 2022~ Feb. 07, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Dec. 30, 2022~ Feb. 07, 2023	Mar. 06, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Dec. 30, 2022~ Feb. 07, 2023	Feb. 22, 2023	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Dec. 30, 2022~ Feb. 07, 2023	Sep. 19, 2023	Radiation (03CH07-HY)
Horn Antenna	ETS-Lindgren	3117	00143261	1GHz~18GHz	Feb. 11, 2022	Dec. 30, 2022~ Feb. 07, 2023	Feb. 10, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 24, 2022	Dec. 30, 2022~ Feb. 07, 2023	Nov. 23, 2023	Radiation (03CH07-HY)
Signal Generator	Anritsu	MG3710A	6261943042	2G / 3G / LTE / 5G FR1	May 23, 2022	Dec. 30, 2022~ Feb. 07, 2023	May 22, 2023	Radiation (03CH07-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	0V~64V ;0A~6A	Sep. 29, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 28, 2023	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893241	NA	Mar. 18, 2022	Dec. 19, 2022~ Mar. 06, 2023	Mar. 17, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 05, 2022	Dec. 19, 2022~ Mar. 06, 2023	May 04, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 07, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Dec. 19, 2022~ Mar. 06, 2023	Jun. 12, 2023	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))	**3.25 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.50 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.08 dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

<SISO Mode>
<SCS 15k>
<OAI 2 Antenna>

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.25	23.11	23.05	31.46	1.3996
5	1	23		23.18	23.07	23.09		
5	12	6		23.34	23.26	23.32		
5	1	0		22.79	22.69	22.54		
5	1	24		22.70	22.65	22.60		
5	25	0		22.82	22.79	22.85		
5	1	1	QPSK	22.52	23.42	23.02		
5	1	23		23.46	23.45	23.09		
5	12	6		23.36	23.26	23.32		
5	1	0		22.57	22.42	22.56		
5	1	24		22.45	22.42	22.57		
5	25	0		22.35	22.33	22.86		
5	1	1	16-QAM	22.42	22.34	22.42	30.42	1.1015
5	1	1	64-QAM	21.12	21.03	21.04		
5	1	1	256-QAM	19.19	19.12	19.07		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.35	23.05	23.09	31.62	1.4521
10	1	50		23.29	23.09	23.13		
10	25	12		23.47	23.32	23.35		
10	1	0		22.83	22.58	22.63		
10	1	51		22.85	22.66	22.65		
10	50	0		22.92	22.78	22.89		
10	1	1	QPSK	22.67	23.37	23.52		
10	1	50		23.62	23.52	23.56		
10	25	12		23.52	23.35	23.44		
10	1	0		22.61	22.35	22.42		
10	1	51		22.61	22.57	22.56		
10	50	0		22.47	22.30	22.45		
10	1	1	16-QAM	22.57	22.30	22.42	30.57	1.1402
10	1	1	64-QAM	21.25	21.95	21.12		
10	1	1	256-QAM	19.25	19.08	19.12		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.28	23.05	23.12	31.62	1.4521
15	1	77		23.32	23.14	23.16		
15	36	18		23.48	23.31	23.48		
15	1	0		22.74	22.63	22.65		
15	1	78		22.84	22.62	22.65		
15	75	0		22.94	22.76	22.87		
15	1	1	QPSK	23.62	23.21	23.49		
15	1	77		23.62	23.22	23.57		
15	36	18		23.46	23.36	23.47		
15	1	0		22.54	22.22	22.29		
15	1	78		22.65	22.32	22.56		
15	75	0		22.48	22.26	22.37		
15	1	1	16-QAM	22.49	22.25	22.42	30.49	1.1194
15	1	1	64-QAM	21.18	21.03	21.04		
15	1	1	256-QAM	19.25	19.05	19.15		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.32	23.25	23.21	31.67	1.4689
20	1	104		23.32	23.17	23.23		
20	50	25		23.39	23.32	23.39		
20	1	0		22.89	22.78	22.73		
20	1	105		22.83	22.74	22.79		
20	100	0		22.96	22.75	22.72		
20	1	1	QPSK	23.67	23.32	23.32		
20	1	104		23.62	23.29	23.37		
20	50	25		23.45	23.34	23.42		
20	1	0		22.62	22.39	22.35		
20	1	105		22.62	22.35	22.39		
20	100	0		22.46	22.27	22.28		
20	1	1	16-QAM	22.57	22.45	22.47	30.57	1.1402
20	1	1	64-QAM	21.25	21.17	21.17		
20	1	1	256-QAM	19.28	19.22	19.25		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	22.72	22.60	22.51	31.41	1.3836
25	1	131		22.59	22.58	22.57		
25	64	32		23.38	23.26	23.25		
25	1	0		22.23	22.18	22.02		
25	1	132		22.15	22.15	22.14		
25	128	0		22.73	22.38	22.36		
25	1	1	QPSK	22.97	22.83	22.85		
25	1	131		22.92	22.93	22.97		
25	64	32		23.41	23.27	23.25		
25	1	0		21.97	21.85	21.83		
25	1	132		21.85	21.93	21.98		
25	128	0		22.26	21.95	21.91		
25	1	1	16-QAM	21.85	21.57	21.82	29.85	0.9661
25	1	1	64-QAM	20.59	20.42	20.46		
25	1	1	256-QAM	18.75	18.56	18.56		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.37	23.18	23.05	31.75	1.4962
30	1	158		23.32	23.14	23.12		
30	80	40		23.55	23.31	23.37		
30	1	0		22.92	22.64	22.63		
30	1	159		22.84	22.58	22.67		
30	160	0		23.02	22.68	22.88		
30	1	1	QPSK	23.75	23.42	23.18		
30	1	158		23.62	23.42	23.25		
30	80	40		23.56	23.35	23.42		
30	1	0		22.72	22.44	22.22		
30	1	159		22.62	22.45	22.32		
30	160	0		22.55	22.24	22.35		
30	1	1	16-QAM	22.62	22.41	22.41	30.62	1.1535
30	1	1	64-QAM	21.34	21.07	21.15		
30	1	1	256-QAM	19.32	19.16	19.15		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.37	23.30	23.38	31.75	1.4962
40	1	214		23.26	23.24	23.27		
40	108	54		23.44	23.30	23.47		
40	1	0		22.95	22.83	22.92		
40	1	215		22.81	22.75	22.79		
40	216	0		22.93	22.68	22.94		
40	1	1	QPSK	23.75	23.42	23.67		
40	1	214		23.65	23.38	23.68		
40	108	54		23.44	23.34	23.52		
40	1	0		22.74	22.62	22.72		
40	1	215		22.67	22.42	22.72		
40	216	0		22.49	22.23	22.53		
40	1	1	16-QAM	22.62	22.57	22.66	30.66	1.1641
40	1	1	64-QAM	21.32	21.27	21.35		
40	1	1	256-QAM	19.35	19.32	19.42		
Limit	EIRP < 2W			Result			Pass	

<OAI 4 Antenna>

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	25.22	25.34	24.25	32.54	1.7947
10	1	50		25.25	25.47	24.62		
10	25	12		25.61	25.70	24.58		
10	1	0		22.04	22.22	20.97		
10	1	51		22.19	22.30	21.37		
10	50	0		25.12	25.19	24.08		
10	1	1	QPSK	25.17	25.51	24.35		
10	1	50		25.54	25.57	24.73		
10	25	12		25.43	25.74	24.62		
10	1	0		22.17	22.22	20.91		
10	1	51		22.25	22.37	21.37		
10	50	0		24.73	24.67	23.54		
10	1	1	16-QAM	24.58	24.43	23.35	31.38	1.374
10	1	1	64-QAM	23.43	23.32	22.04		
10	1	1	256-QAM	21.35	21.26	19.82		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.12	25.37	24.02	32.51	1.7824
15	1	77		24.63	25.43	24.63		
15	36	18		24.60	25.67	24.43		
15	1	0		20.75	22.19	20.73		
15	1	78		21.34	22.27	21.31		
15	75	0		24.05	25.22	23.99		
15	1	1	QPSK	24.17	25.65	24.09		
15	1	77		24.72	25.52	24.61		
15	36	18		24.60	25.71	24.46		
15	1	0		20.82	22.25	20.75		
15	1	78		21.33	22.30	21.35		
15	75	0		24.02	24.72	23.49		
15	1	1	16-QAM	23.19	24.54	22.92	31.34	1.3614
15	1	1	64-QAM	21.95	23.26	21.75		
15	1	1	256-QAM	19.85	21.29	20.32		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.32	25.43	24.25	32.59	1.8155
20	1	104		25.46	25.45	24.72		
20	50	25		25.62	25.65	24.39		
20	1	0		22.15	22.32	21.02		
20	1	105		22.24	22.34	21.45		
20	100	0		24.97	25.23	23.93		
20	1	1	QPSK	25.14	25.51	24.32		
20	1	104		25.62	25.54	24.82		
20	50	25		25.79	25.68	24.39		
20	1	0		22.23	22.36	20.95		
20	1	105		22.32	22.43	21.46		
20	100	0		24.68	24.76	24.43		
20	1	1	16-QAM	24.65	24.75	23.42	31.55	1.4289
20	1	1	64-QAM	23.54	23.42	21.92		
20	1	1	256-QAM	21.42	21.38	20.02		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.16	25.34	25.40	32.64	1.8365
30	1	158		25.57	25.44	25.63		
30	80	40		25.67	25.70	25.83		
30	1	0		22.03	22.14	22.15		
30	1	159		22.27	22.22	22.42		
30	160	0		25.09	25.15	25.23		
30	1	1	QPSK	25.14	25.47	25.46		
30	1	158		25.74	25.49	25.72		
30	80	40		25.79	25.78	25.84		
30	1	0		22.09	22.15	22.15		
30	1	159		22.27	22.27	22.45		
30	160	0		24.70	24.65	24.78		
30	1	1	16-QAM	24.35	24.52	24.46	31.32	1.3552
30	1	1	64-QAM	23.25	23.32	23.26		
30	1	1	256-QAM	21.35	21.25	21.27		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.30	25.42	25.42	32.74	1.8793
40	1	214		25.69	25.52	25.94		
40	108	54		25.66	25.65	25.76		
40	1	0		22.17	22.24	22.27		
40	1	215		22.46	22.41	22.56		
40	216	0		25.09	25.15	25.13		
40	1	1	QPSK	25.16	25.61	25.72		
40	1	214		25.83	25.75	25.86		
40	108	54		25.79	25.72	25.82		
40	1	0		22.25	22.35	22.27		
40	1	215		22.40	22.45	22.57		
40	216	0		24.66	24.66	24.74		
40	1	1	16-QAM	24.62	24.57	24.55	31.42	1.3868
40	1	1	64-QAM	23.38	23.34	23.35		
40	1	1	256-QAM	21.35	21.42	21.25		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.27	25.32	25.62	32.77	1.8923
50	1	268		25.63	25.71	25.92		
50	135	67		25.68	25.67	25.79		
50	1	0		22.22	22.18	22.30		
50	1	269		22.32	22.45	22.56		
50	270	0		25.17	25.20	25.27		
50	1	1	QPSK	25.10	25.54	25.74		
50	1	268		25.74	25.71	25.97		
50	135	67		25.79	25.71	25.77		
50	1	0		22.24	22.19	22.35		
50	1	269		22.37	22.47	22.62		
50	270	0		24.70	24.71	24.79		
50	1	1	16-QAM	24.32	24.42	24.51	31.31	1.3521
50	1	1	64-QAM	23.34	23.35	23.42		
50	1	1	256-QAM	21.34	21.25	21.42		
Limit	EIRP < 2W			Result			Pass	

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NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	24.94	24.94	24.85	29.94	0.9863
5	1	23		24.93	24.83	24.92		
5	12	6		24.89	24.92	24.89		
5	1	0		24.51	24.10	24.49		
5	1	24		24.51	24.16	24.53		
5	25	0		24.62	24.14	24.63		
5	1	1	QPSK	24.89	24.87	24.89		
5	1	23		24.92	24.89	24.87		
5	12	6		24.89	24.87	24.86		
5	1	0		24.21	24.12	24.06		
5	1	24		24.23	24.13	24.13		
5	25	0		24.17	24.17	24.16		
5	1	1	16-QAM	24.16	23.81	24.07	29.16	0.8241
5	1	1	64-QAM	22.51	22.35	22.52		
5	1	1	256-QAM	20.42	20.42	20.39		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.85	24.87	24.87	29.96	0.9908
10	1	50		24.96	24.96	24.93		
10	25	12		24.89	24.83	24.87		
10	1	0		24.36	24.39	24.40		
10	1	51		24.54	24.56	24.54		
10	50	0		24.51	24.54	24.47		
10	1	1	QPSK	24.92	24.89	24.89		
10	1	50		24.93	24.89	24.91		
10	25	12		24.89	24.89	24.89		
10	1	0		24.13	24.15	24.13		
10	1	51		24.22	24.32	24.13		
10	50	0		24.09	24.09	24.07		
10	1	1	16-QAM	24.07	24.16	24.12	29.16	0.8241
10	1	1	64-QAM	22.42	22.43	22.51		
10	1	1	256-QAM	20.39	20.35	20.35		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.80	24.89	24.92	29.93	0.984
15	1	77		24.91	24.91	24.87		
15	36	18		24.89	24.87	24.89		
15	1	0		24.32	24.42	23.95		
15	1	78		24.43	24.57	24.06		
15	75	0		24.57	24.57	24.07		
15	1	1	QPSK	24.87	24.91	24.92		
15	1	77		24.87	24.89	24.89		
15	36	18		24.91	24.91	24.93		
15	1	0		24.06	23.92	23.93		
15	1	78		24.18	24.09	24.12		
15	75	0		24.12	24.02	24.09		
15	1	1	16-QAM	23.92	23.75	23.57	28.92	0.7798
15	1	1	64-QAM	22.42	22.47	22.19		
15	1	1	256-QAM	20.32	20.24	20.34		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.87	24.89	24.84	29.93	0.9840
20	1	104		24.89	24.87	24.86		
20	50	25		24.89	24.87	24.91		
20	1	0		24.43	24.46	24.39		
20	1	105		24.59	24.57	24.57		
20	100	0		24.57	24.48	24.56		
20	1	1	QPSK	24.87	24.87	24.91		
20	1	104		24.89	24.91	24.93		
20	50	25		24.89	24.81	24.91		
20	1	0		24.06	24.15	24.23		
20	1	105		24.15	24.35	24.38		
20	100	0		24.11	24.00	24.12		
20	1	1	16-QAM	24.05	24.06	24.06	29.06	0.8054
20	1	1	64-QAM	22.57	22.46	22.54		
20	1	1	256-QAM	20.43	20.37	20.43		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	24.32	24.33	24.32	29.93	0.9840
25	1	131		24.44	24.47	24.43		
25	64	32		24.87	24.89	24.93		
25	1	0		23.82	23.85	23.84		
25	1	132		24.04	24.05	24.07		
25	128	0		24.34	24.19	24.35		
25	1	1	QPSK	24.52	24.52	24.57		
25	1	131		24.62	24.72	24.67		
25	64	32		24.89	24.87	24.89		
25	1	0		23.54	23.52	23.62		
25	1	132		23.62	23.74	23.72		
25	128	0		23.89	23.74	23.91		
25	1	1	16-QAM	23.53	23.53	23.52	28.53	0.7129
25	1	1	64-QAM	21.87	21.82	21.83		
25	1	1	256-QAM	19.85	19.85	19.83		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.83	24.82	24.72	29.97	0.9931
30	1	158		24.89	24.97	24.97		
30	80	40		24.91	24.87	24.89		
30	1	0		24.38	24.38	24.36		
30	1	159		24.63	24.52	24.48		
30	160	0		24.33	24.45	24.63		
30	1	1	QPSK	24.89	24.87	24.89		
30	1	158		24.87	24.89	24.91		
30	80	40		24.18	24.86	24.89		
30	1	0		24.06	24.03	24.12		
30	1	159		24.30	24.26	24.32		
30	160	0		24.16	24.02	24.16		
30	1	1	16-QAM	24.00	24.02	23.65	29.02	0.7980
30	1	1	64-QAM	22.43	22.41	22.16		
30	1	1	256-QAM	20.35	20.26	20.32		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.84	24.87	24.89	29.99	0.9977
40	1	214		24.89	24.91	24.86		
40	108	54		24.91	24.87	24.89		
40	1	0		24.45	24.38	24.43		
40	1	215		24.62	24.63	24.65		
40	216	0		24.63	24.35	24.60		
40	1	1	QPSK	24.87	24.87	24.91		
40	1	214		24.91	24.87	24.99		
40	108	54		24.93	24.87	24.89		
40	1	0		24.23	24.12	24.16		
40	1	215		24.38	24.36	24.38		
40	216	0		24.19	23.96	24.20		
40	1	1	16-QAM	24.12	24.15	24.17	29.17	0.8260
40	1	1	64-QAM	22.23	22.46	22.46		
40	1	1	256-QAM	20.42	20.35	20.43		
Limit	EIRP < 1W			Result			Pass	

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NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	24.35	24.32	24.46	27.42	0.5521
5	1	23		24.46	24.39	24.53		
5	12	6		24.38	24.36	24.56		
5	1	0		23.85	23.85	23.99		
5	1	24		23.96	23.92	24.02		
5	25	0		24.02	23.84	24.03		
5	1	1	QPSK	24.42	24.23	24.45		
5	1	23		24.32	24.18	24.38		
5	12	6		24.42	24.33	24.57		
5	1	0		23.45	23.25	23.44		
5	1	24		23.32	23.23	23.42		
5	25	0		23.52	23.33	23.52		
5	1	1	16-QAM	23.43	23.04	23.54	26.39	0.4355
5	1	1	64-QAM	21.64	21.99	21.85		
5	1	1	256-QAM	20.04	19.92	19.95		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	24.37	24.28	24.45	27.43	0.5534
10	1	50		24.48	24.46	24.57		
10	25	12		24.35	24.42	24.58		
10	1	0		23.87	23.78	23.92		
10	1	51		24.02	23.94	24.09		
10	50	0		24.12	23.98	23.94		
10	1	1	QPSK	24.24	24.22	24.33		
10	1	50		24.45	24.36	24.52		
10	25	12		24.44	24.33	24.54		
10	1	0		23.32	23.32	23.36		
10	1	51		23.48	23.34	23.53		
10	50	0		23.57	23.46	23.43		
10	1	1	16-QAM	23.37	23.42	23.37	26.27	0.4236
10	1	1	64-QAM	22.18	22.02	22.19		
10	1	1	256-QAM	19.75	19.72	19.76		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	24.31	24.35	24.38	27.41	0.5508
15	1	77		24.37	24.54	24.56		
15	36	18		24.40	24.35	24.48		
15	1	0		23.85	23.82	23.87		
15	1	78		23.92	23.95	24.09		
15	75	0		23.82	24.08	23.78		
15	1	1	QPSK	24.30	24.32	24.22		
15	1	77		24.32	24.38	24.42		
15	36	18		24.33	24.39	24.44		
15	1	0		23.29	23.32	23.20		
15	1	78		23.31	23.40	23.47		
15	75	0		23.32	23.62	23.32		
15	1	1	16-QAM	23.32	23.42	23.13	26.27	0.4236
15	1	1	64-QAM	22.16	22.14	21.95		
15	1	1	256-QAM	19.92	19.72	19.85		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	24.38	24.46	24.47	27.46	0.5572
20	1	104		24.45	24.56	24.61		
20	50	25		24.38	24.37	24.35		
20	1	0		23.97	24.03	24.02		
20	1	105		24.11	24.17	24.20		
20	100	0		23.45	24.28	24.32		
20	1	1	QPSK	24.35	24.43	24.47		
20	1	104		24.42	24.55	24.54		
20	50	25		24.43	24.42	24.42		
20	1	0		23.47	23.51	23.47		
20	1	105		23.42	23.71	23.65		
20	100	0		23.01	23.82	23.81		
20	1	1	16-QAM	23.57	23.46	23.48	26.42	0.4385
20	1	1	64-QAM	22.17	22.22	22.22		
20	1	1	256-QAM	19.85	19.87	19.88		
Limit	ERP < 3W			Result			Pass	

<EA 2 Antenna>

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.80	24.05	23.97	29.71	0.9354
5	1	23		23.91	24.06	23.91		
5	12	6		24.05	24.15	24.11		
5	1	0		23.37	23.57	23.53		
5	1	24		23.47	23.56	23.46		
5	25	0		23.54	23.63	23.56		
5	1	1	QPSK	24.00	24.17	24.21		
5	1	23		24.06	24.18	24.12		
5	12	6		24.03	24.19	24.11		
5	1	0		22.93	23.16	23.19		
5	1	24		23.12	23.17	23.07		
5	25	0		23.01	23.17	23.07		
5	1	1	16-QAM	22.88	23.06	23.12	28.62	0.7278
5	1	1	64-QAM	21.57	21.91	21.81		
5	1	1	256-QAM	19.39	19.58	19.55		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.86	24.05	24.06	29.75	0.9441
10	1	50		24.02	24.06	23.97		
10	25	12		24.16	24.12	24.16		
10	1	0		23.42	23.57	23.52		
10	1	51		23.61	23.61	23.55		
10	50	0		23.66	23.63	23.53		
10	1	1	QPSK	24.07	24.16	24.16		
10	1	50		24.19	24.18	24.25		
10	25	12		24.19	24.19	24.13		
10	1	0		22.96	23.10	23.11		
10	1	51		23.27	23.17	23.11		
10	50	0		23.19	23.12	23.10		
10	1	1	16-QAM	22.97	23.09	23.13	28.63	0.7295
10	1	1	64-QAM	21.65	21.82	21.76		
10	1	1	256-QAM	19.48	19.58	19.57		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.91	24.05	23.95	29.74	0.9419
15	1	77		24.06	24.05	23.89		
15	36	18		24.16	24.17	24.11		
15	1	0		23.36	23.56	23.46		
15	1	78		23.60	23.52	23.44		
15	75	0		23.68	23.62	23.55		
15	1	1	QPSK	24.07	24.18	24.13		
15	1	77		24.24	24.20	24.20		
15	36	18		24.19	24.17	24.12		
15	1	0		22.94	23.09	23.10		
15	1	78		23.21	23.16	23.14		
15	75	0		23.19	23.14	23.08		
15	1	1	16-QAM	23.00	23.11	23.13	28.63	0.7295
15	1	1	64-QAM	21.66	21.78	21.74		
15	1	1	256-QAM	19.46	19.61	19.55		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.00	24.11	24.02	29.98	0.9954
20	1	104		24.17	24.16	24.01		
20	50	25		24.13	24.13	24.10		
20	1	0		23.44	23.65	23.52		
20	1	105		23.72	23.74	23.54		
20	100	0		23.74	23.54	23.58		
20	1	1	QPSK	24.19	24.30	24.23		
20	1	104		24.30	24.48	24.17		
20	50	25		24.19	24.10	24.13		
20	1	0		23.07	23.22	23.27		
20	1	105		23.27	23.44	23.21		
20	100	0		23.21	23.08	23.06		
20	1	1	16-QAM	23.06	23.15	23.20	28.70	0.7413
20	1	1	64-QAM	21.77	21.91	21.78		
20	1	1	256-QAM	19.54	19.68	19.61		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	23.41	23.43	23.45	29.56	0.9036
25	1	131		23.45	23.51	23.44		
25	64	32		23.96	24.06	24.00		
25	1	0		22.93	22.99	23.01		
25	1	132		22.94	23.05	22.94		
25	128	0		23.45	23.09	23.44		
25	1	1	QPSK	23.47	23.47	23.61		
25	1	131		23.50	23.68	23.61		
25	64	32		23.99	24.01	24.01		
25	1	0		22.49	22.50	22.69		
25	1	132		22.40	22.65	22.60		
25	128	0		22.93	22.66	22.97		
25	1	1	16-QAM	22.43	22.49	22.64	28.14	0.6516
25	1	1	64-QAM	21.13	21.20	21.33		
25	1	1	256-QAM	18.91	18.99	19.03		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.03	24.04	24.09	29.74	0.9419
30	1	158		24.08	24.04	23.99		
30	80	40		24.21	24.19	24.19		
30	1	0		23.58	23.52	23.61		
30	1	159		23.58	23.57	23.53		
30	160	0		23.75	23.51	23.77		
30	1	1	QPSK	24.23	24.13	24.24		
30	1	158		24.18	24.24	24.24		
30	80	40		24.17	24.12	24.17		
30	1	0		23.20	23.11	23.25		
30	1	159		23.16	23.23	23.15		
30	160	0		23.27	23.01	23.29		
30	1	1	16-QAM	23.14	23.17	23.25	28.75	0.7499
30	1	1	64-QAM	21.81	21.77	21.86		
30	1	1	256-QAM	19.62	19.58	19.61		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.07	24.14	24.15	29.88	0.9727
40	1	214		24.14	24.19	24.03		
40	108	54		24.13	24.12	24.15		
40	1	0		23.66	23.67	23.66		
40	1	215		23.69	23.72	23.58		
40	216	0		23.74	23.35	23.89		
40	1	1	QPSK	24.27	24.25	24.31		
40	1	214		24.35	24.38	24.23		
40	108	54		24.18	24.15	24.18		
40	1	0		23.26	23.23	23.19		
40	1	215		23.43	23.45	23.30		
40	216	0		23.33	22.81	23.39		
40	1	1	16-QAM	23.23	23.27	23.21	28.77	0.7534
40	1	1	64-QAM	21.95	21.91	21.94		
40	1	1	256-QAM	19.64	19.70	19.66		
Limit	EIRP < 1W			Result			Pass	

<SCS 30k>
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NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.42	23.18	23.16	31.65	1.4622
10	1	22		23.35	23.15	23.18		
10	12	6		23.49	23.41	23.42		
10	1	0		22.95	22.70	22.69		
10	1	23		22.83	22.66	22.68		
10	24	0		22.94	22.82	22.92		
10	1	1	QPSK	23.65	23.23	23.25		
10	1	22		23.62	23.24	23.25		
10	12	6		23.52	23.37	23.45		
10	1	0		22.62	22.29	22.35		
10	1	23		22.52	22.27	22.32		
10	24	0		22.45	22.32	22.38		
10	1	1	16-QAM	22.52	22.26	22.64	30.64	1.1588
10	1	1	64-QAM	21.09	20.91	21.07		
10	1	1	256-QAM	19.23	18.85	19.18		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.37	23.21	23.26	31.52	1.4191
15	1	36		23.34	22.05	23.18		
15	18	9		23.49	23.39	23.46		
15	1	0		22.92	22.74	22.79		
15	1	37		22.88	22.72	22.74		
15	36	0		23.02	22.82	22.89		
15	1	1	QPSK	23.45	23.38	23.45		
15	1	36		23.41	23.42	23.42		
15	18	9		23.52	23.38	23.41		
15	1	0		22.47	22.42	22.45		
15	1	37		22.45	22.42	22.29		
15	36	0		22.54	22.34	22.46		
15	1	1	16-QAM	22.72	22.45	22.61	30.72	1.1803
15	1	1	64-QAM	21.32	21.12	21.18		
15	1	1	256-QAM	19.32	19.13	19.25		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.37	23.27	23.23	31.52	1.4191
20	1	49		23.29	23.16	23.24		
20	25	12		23.51	23.38	23.47		
20	1	0		22.93	22.78	22.75		
20	1	50		22.82	22.67	22.72		
20	50	0		23.02	22.75	22.72		
20	1	1	QPSK	23.45	23.45	23.32		
20	1	49		23.32	23.36	23.32		
20	25	12		23.52	23.38	23.48		
20	1	0		22.45	22.45	22.35		
20	1	50		22.35	22.38	22.35		
20	50	0		22.51	22.32	22.32		
20	1	1	16-QAM	22.52	22.57	22.42	30.57	1.1402
20	1	1	64-QAM	21.15	21.15	21.06		
20	1	1	256-QAM	19.22	19.12	19.15		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	22.81	22.73	22.67	31.42	1.3868
25	1	63		22.72	22.72	22.65		
25	32	16		23.39	23.29	23.28		
25	1	0		22.35	22.23	22.16		
25	1	64		22.22	22.19	22.15		
25	64	0		22.79	22.47	22.42		
25	1	1	QPSK	23.02	22.84	22.74		
25	1	63		22.87	22.75	22.73		
25	32	16		23.42	23.35	23.41		
25	1	0		22.03	21.87	21.79		
25	1	64		21.94	21.85	21.82		
25	64	0		22.32	21.97	21.95		
25	1	1	16-QAM	22.02	21.82	21.85	30.02	1.0046
25	1	1	64-QAM	20.61	20.43	20.49		
25	1	1	256-QAM	18.67	18.57	18.57		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	23.47	23.25	23.25	31.62	1.4521
30	1	76		23.41	23.25	23.27		
30	36	18		23.62	23.45	23.44		
30	1	0		22.95	22.82	22.72		
30	1	77		22.92	22.79	22.74		
30	75	0		23.13	22.85	22.93		
30	1	1	QPSK	23.62	23.32	23.52		
30	1	76		23.44	23.28	23.32		
30	36	18		23.62	23.42	23.52		
30	1	0		22.53	22.37	22.47		
30	1	77		22.52	22.35	22.35		
30	75	0		22.65	22.41	22.48		
30	1	1	16-QAM	22.75	22.52	22.39	30.75	1.1885
30	1	1	64-QAM	21.43	21.25	21.02		
30	1	1	256-QAM	19.42	19.22	19.15		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	23.42	23.35	23.43	31.65	1.4622
40	1	104		23.33	23.34	23.32		
40	50	25		23.51	23.36	23.52		
40	1	0		22.98	22.92	22.99		
40	1	105		22.85	22.91	22.85		
40	100	0		23.06	22.75	23.15		
40	1	1	QPSK	23.65	23.56	23.52		
40	1	104		23.62	23.54	23.44		
40	50	25		23.48	23.41	23.54		
40	1	0		22.72	22.57	22.63		
40	1	105		22.64	22.52	22.47		
40	100	0		23.51	22.31	22.65		
40	1	1	16-QAM	22.75	22.65	22.75	30.75	1.1885
40	1	1	64-QAM	21.32	20.79	21.45		
40	1	1	256-QAM	19.32	19.35	19.42		
Limit	EIRP < 2W			Result			Pass	

<OAI 4 Antenna>

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	25.14	25.53	24.43	32.98	1.9861
10	1	22		25.36	25.53	24.69		
10	12	6		25.39	25.87	24.79		
10	1	0		21.91	21.61	21.81		
10	1	23		22.02	21.60	21.90		
10	24	0		24.23	24.32	23.39		
10	1	1	QPSK	24.93	26.12	24.82		
10	1	22		25.36	26.18	24.97		
10	12	6		25.20	25.94	24.81		
10	1	0		22.00	21.66	21.82		
10	1	23		22.02	21.72	21.83		
10	24	0		23.87	23.87	22.87		
10	1	1	16-QAM	24.67	25.63	23.57	32.43	1.7498
10	1	1	64-QAM	22.57	22.82	21.52		
10	1	1	256-QAM	20.23	20.42	19.10		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	25.15	25.67	24.21	32.68	1.8535
15	1	36		25.44	25.53	24.67		
15	18	9		25.66	25.88	24.61		
15	1	0		21.91	21.72	21.71		
15	1	37		22.00	21.71	21.85		
15	36	0		24.24	24.36	22.27		
15	1	1	QPSK	25.00	25.53	24.34		
15	1	36		25.87	25.53	25.12		
15	18	9		25.47	25.88	24.62		
15	1	0		19.37	19.36	17.83		
15	1	37		19.27	23.87	18.32		
15	36	0		23.78	23.83	22.75		
15	1	1	16-QAM	24.67	24.75	23.25	31.55	1.4289
15	1	1	64-QAM	22.67	22.92	21.32		
15	1	1	256-QAM	20.21	20.37	18.83		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.15	25.57	24.42	32.77	1.8923
20	1	49		25.57	25.61	24.73		
20	25	12		25.84	25.85	24.54		
20	1	0		21.90	21.72	21.91		
20	1	50		21.92	21.71	21.79		
20	50	0		24.19	24.38	23.24		
20	1	1	QPSK	24.97	25.97	24.57		
20	1	49		25.81	25.52	25.41		
20	25	12		25.70	25.93	24.58		
20	1	0		21.82	21.62	21.92		
20	1	50		21.91	21.71	21.91		
20	50	0		23.79	23.92	22.79		
20	1	1	16-QAM	24.57	24.93	23.42	31.73	1.4894
20	1	1	64-QAM	22.87	22.89	21.54		
20	1	1	256-QAM	20.23	20.42	19.02		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.15	25.57	25.63	32.83	1.9187
30	1	76		25.71	25.62	25.74		
30	36	18		25.81	25.85	25.93		
30	1	0		22.00	21.72	21.82		
30	1	77		21.90	21.62	22.00		
30	75	0		24.25	24.41	24.34		
30	1	1	QPSK	25.14	26.02	26.03		
30	1	76		25.73	25.60	25.45		
30	36	18		25.82	25.92	25.95		
30	1	0		22.00	21.52	21.82		
30	1	77		22.02	21.92	22.00		
30	75	0		23.82	23.92	23.93		
30	1	1	16-QAM	24.67	24.97	24.57	31.77	1.5031
30	1	1	64-QAM	22.92	22.83	22.73		
30	1	1	256-QAM	20.32	20.35	20.25		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	25.56	25.74	25.46	32.81	1.9099
40	1	104		25.82	25.75	25.93		
40	50	25		25.82	25.81	25.94		
40	1	0		22.05	21.72	21.93		
40	1	105		22.00	22.01	22.11		
40	100	0		24.22	24.35	24.37		
40	1	1	QPSK	25.42	25.70	25.52		
40	1	104		25.71	25.37	25.62		
40	50	25		25.89	25.96	26.01		
40	1	0		22.03	21.82	22.01		
40	1	105		22.01	22.01	22.12		
40	100	0		23.80	23.92	23.95		
40	1	1	16-QAM	24.32	24.93	24.62	31.73	1.4894
40	1	1	64-QAM	22.92	22.85	22.93		
40	1	1	256-QAM	20.35	20.45	20.35		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
50	1	1	PI/2 BPSK	25.36	25.94	25.71	32.92	1.9588
50	1	131		25.78	25.76	25.85		
50	64	32		25.91	25.93	25.97		
50	1	0		22.12	22.62	21.82		
50	1	132		22.92	22.02	22.12		
50	128	0		24.27	24.35	24.39		
50	1	1	QPSK	25.19	26.12	26.12		
50	1	131		25.78	25.19	25.57		
50	64	32		25.95	25.96	26.02		
50	1	0		22.12	21.72	21.82		
50	1	132		21.92	22.12	22.11		
50	128	0		23.83	23.86	23.91		
50	1	1	16-QAM	24.93	24.74	24.85	31.73	1.4894
50	1	1	64-QAM	22.73	22.74	22.82		
50	1	1	256-QAM	20.27	20.25	20.35		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	25.27	25.32	25.61	32.85	1.9275
60	1	160		25.56	25.72	25.03		
60	81	40		25.92	25.93	25.71		
60	1	0		21.92	21.52	21.62		
60	1	161		21.72	21.92	22.14		
60	162	0		24.24	24.37	24.36		
60	1	1	QPSK	25.12	25.57	26.05		
60	1	160		25.67	25.25	25.61		
60	81	40		25.86	25.81	25.69		
60	1	0		21.93	21.55	21.66		
60	1	161		21.73	21.93	22.12		
60	162	0		23.75	23.83	23.92		
60	1	1	16-QAM	24.73	24.45	24.46	31.53	1.4223
60	1	1	64-QAM	22.63	22.57	22.72		
60	1	1	256-QAM	20.02	20.06	20.22		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	25.32	25.35	25.52	32.91	1.9543
70	1	187		25.51	25.87	25.93		
70	90	45		25.91	25.87	26.08		
70	1	0		22.03	21.66	21.66		
70	1	188		21.82	22.02	22.18		
70	180	0		24.24	24.35	24.45		
70	1	1	QPSK	25.17	25.34	25.82		
70	1	187		25.78	24.94	25.46		
70	90	45		25.95	25.92	26.11		
70	1	0		22.13	21.66	22.18		
70	1	188		21.83	22.12	22.12		
70	180	0		23.79	23.75	23.97		
70	1	1	16-QAM	24.83	24.52	24.67	31.63	1.4555
70	1	1	64-QAM	22.72	22.83	22.62		
70	1	1	256-QAM	20.16	20.12	20.21		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	25.34	25.35	25.32	32.85	1.9275
80	1	215		25.66	25.95	25.91		
80	108	54		25.87	25.89	26.05		
80	1	0		22.14	21.66	21.56		
80	1	216		21.86	22.16	22.12		
80	216	0		24.15	24.32	24.35		
80	1	1	QPSK	25.17	25.73	25.66		
80	1	215		25.32	24.80	25.32		
80	108	54		25.68	25.63	25.50		
80	1	0		22.18	21.67	21.56		
80	1	216		21.83	22.12	22.23		
80	216	0		23.75	23.83	23.87		
80	1	1	16-QAM	24.45	24.59	24.47	31.39	1.3772
80	1	1	64-QAM	22.45	22.35	22.51		
80	1	1	256-QAM	20.12	20.06	20.03		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	25.20	25.73	25.22	32.60	1.8197
90	1	243		25.55	25.00	25.47		
90	120	60		25.80	25.74	25.63		
90	1	0		22.03	21.56	21.39		
90	1	244		21.86	22.31	22.12		
90	240	0		24.21	23.83	24.32		
90	1	1	QPSK	25.21	25.26	25.43		
90	1	243		25.30	24.74	25.20		
90	120	60		25.65	25.60	25.48		
90	1	0		22.05	21.57	21.52		
90	1	244		21.85	22.08	22.21		
90	240	0		23.74	24.32	23.82		
90	1	1	16-QAM	24.73	24.42	24.37	31.53	1.4223
90	1	1	64-QAM	22.61	22.37	22.39		
90	1	1	256-QAM	20.13	20.05	20.02		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 6.8 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	25.41	25.40	25.40	32.73	1.8750
100	1	271		25.17	24.83	25.32		
100	135	67		25.93	25.77	25.61		
100	1	0		22.03	21.54	21.38		
100	1	272		21.99	22.13	22.12		
100	270	0		24.23	24.22	24.27		
100	1	1	QPSK	25.04	24.99	25.61		
100	1	271		25.12	24.74	25.19		
100	135	67		25.66	25.58	25.51		
100	1	0		22.02	21.56	21.51		
100	1	272		21.93	22.10	22.31		
100	270	0		23.67	23.73	23.78		
100	1	1	16-QAM	23.57	24.14	24.25	31.05	1.2735
100	1	1	64-QAM	22.51	22.75	22.44		
100	1	1	256-QAM	20.10	20.14	20.04		
Limit	EIRP < 2W			Result			Pass	

<OAI 2 Antenna>

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.89	24.81	24.87	29.89	0.9750
10	1	22		24.87	24.87	24.83		
10	12	6		24.89	24.87	24.84		
10	1	0		24.52	24.53	24.53		
10	1	23		24.62	24.57	24.53		
10	24	0		24.62	24.62	24.52		
10	1	1	QPSK	24.89	24.87	24.86		
10	1	22		24.87	24.89	24.87		
10	12	6		24.87	24.87	24.83		
10	1	0		24.13	24.12	24.13		
10	1	23		24.17	24.16	24.17		
10	24	0		24.17	24.17	24.12		
10	1	1	16-QAM	23.87	24.23	23.92	29.23	0.8375
10	1	1	64-QAM	22.67	22.71	22.61		
10	1	1	256-QAM	20.62	20.63	20.63		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.87	24.87	24.87	29.89	0.9750
15	1	36		24.79	24.81	24.86		
15	18	9		24.87	24.89	24.87		
15	1	0		24.52	24.52	24.06		
15	1	37		24.35	24.62	24.12		
15	36	0		24.67	24.62	24.52		
15	1	1	QPSK	24.87	24.87	24.87		
15	1	36		24.87	24.86	24.79		
15	18	9		24.89	24.87	24.87		
15	1	0		24.07	24.06	24.07		
15	1	37		24.12	24.16	24.17		
15	36	0		24.23	24.17	24.13		
15	1	1	16-QAM	24.22	23.87	23.79	29.22	0.8356
15	1	1	64-QAM	22.63	22.62	22.67		
15	1	1	256-QAM	20.56	20.59	20.59		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.87	24.79	24.79	29.92	0.9817
20	1	49		24.86	24.87	24.76		
20	25	12		24.87	24.79	24.86		
20	1	0		24.49	24.53	24.47		
20	1	50		24.57	24.63	24.57		
20	50	0		24.63	24.57	24.58		
20	1	1	QPSK	24.79	24.79	24.88		
20	1	49		24.86	24.79	24.87		
20	25	12		24.92	24.89	24.19		
20	1	0		24.13	24.11	24.12		
20	1	50		24.13	24.19	24.15		
20	50	0		24.22	24.14	24.14		
20	1	1	16-QAM	23.97	24.21	22.93	29.21	0.8337
20	1	1	64-QAM	22.57	22.62	22.64		
20	1	1	256-QAM	20.63	20.52	20.64		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	24.47	24.42	24.53	29.91	0.9795
25	1	63		24.57	24.52	24.57		
25	32	16		24.79	24.89	24.87		
25	1	0		24.08	24.12	24.08		
25	1	64		24.12	24.12	24.15		
25	64	0		24.51	24.29	23.87		
25	1	1	QPSK	24.56	24.53	24.52		
25	1	63		24.63	24.62	24.62		
25	32	16		24.87	24.87	24.91		
25	1	0		23.63	23.64	24.05		
25	1	64		23.73	23.72	23.73		
25	64	0		24.02	23.82	23.02		
25	1	1	16-QAM	23.75	23.67	23.72	28.75	0.7499
25	1	1	64-QAM	22.27	22.12	22.24		
25	1	1	256-QAM	20.32	20.32	20.13		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.97	24.96	24.94	29.97	0.9931
30	1	76		24.79	24.87	24.86		
30	36	18		24.83	24.86	24.86		
30	1	0		24.46	24.43	24.45		
30	1	77		24.67	24.64	24.67		
30	75	0		24.77	24.62	24.74		
30	1	1	QPSK	24.79	24.87	24.87		
30	1	76		24.89	24.86	24.87		
30	36	18		24.87	24.89	24.79		
30	1	0		24.09	24.06	24.05		
30	1	77		24.25	24.25	24.27		
30	75	0		24.32	24.17	24.29		
30	1	1	16-QAM	23.92	24.03	24.03	29.03	0.7998
30	1	1	64-QAM	22.61	22.57	22.61		
30	1	1	256-QAM	20.57	20.56	20.57		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.99	24.89	24.96	29.99	0.9977
40	1	104		24.87	24.87	24.89		
40	50	25		24.89	24.87	24.87		
40	1	0		24.49	24.43	24.57		
40	1	105		24.72	24.72	24.74		
40	100	0		24.77	24.52	24.74		
40	1	1	QPSK	24.87	24.87	24.87		
40	1	104		24.87	24.79	24.86		
40	50	25		24.79	24.87	24.36		
40	1	0		24.12	24.13	24.17		
40	1	105		24.37	24.42	24.43		
40	100	0		24.32	24.02	24.29		
40	1	1	16-QAM	24.10	24.04	24.08	29.10	0.8128
40	1	1	64-QAM	22.63	22.58	22.62		
40	1	1	256-QAM	20.68	20.62	20.65		
Limit	EIRP < 1W			Result			Pass	

<OAI 0 Antenna>

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	24.32	24.19	24.35	27.33	0.5408
10	1	22		24.35	24.31	24.39		
10	12	6		24.25	24.38	24.48		
10	1	0		23.89	23.75	23.84		
10	1	23		23.99	23.83	23.94		
10	24	0		24.15	23.82	23.83		
10	1	1	QPSK	24.35	24.17	24.32		
10	1	22		24.32	24.25	24.43		
10	12	6		24.43	24.39	24.44		
10	1	0		23.35	23.25	23.35		
10	1	23		23.35	23.29	23.46		
10	24	0		23.55	23.43	23.42		
10	1	1	16-QAM	23.21	23.22	23.19	26.07	0.4046
10	1	1	64-QAM	21.86	21.82	21.82		
10	1	1	256-QAM	19.73	19.64	19.67		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
15	1	1	PI/2 BPSK	24.26	24.21	24.24	27.30	0.5370
15	1	36		24.17	24.38	24.38		
15	18	9		24.32	24.32	24.44		
15	1	0		23.79	23.75	23.75		
15	1	37		23.71	23.89	23.96		
15	36	0		23.67	24.03	23.75		
15	1	1	QPSK	24.25	24.18	24.25		
15	1	36		24.17	24.32	24.42		
15	18	9		24.35	24.33	24.45		
15	1	0		23.28	23.27	23.32		
15	1	37		23.23	23.34	23.44		
15	36	0		23.34	23.45	23.36		
15	1	1	16-QAM	23.11	23.24	23.01	26.09	0.4064
15	1	1	64-QAM	21.73	21.92	21.57		
15	1	1	256-QAM	19.62	19.63	19.52		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = 5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
20	1	1	PI/2 BPSK	24.41	24.35	24.25	27.38	0.5470
20	1	49		24.38	24.42	24.44		
20	25	12		24.29	24.27	24.50		
20	1	0		23.92	23.90	23.76		
20	1	50		23.92	23.95	23.95		
20	50	0		23.88	24.19	23.72		
20	1	1	QPSK	24.35	24.28	24.25		
20	1	49		24.42	24.35	24.45		
20	25	12		24.53	24.42	24.32		
20	1	0		23.39	23.35	23.25		
20	1	50		23.42	23.42	23.45		
20	50	0		23.29	23.71	23.32		
20	1	1	16-QAM	23.34	23.45	23.29	26.30	0.4266
20	1	1	64-QAM	21.74	22.04	21.71		
20	1	1	256-QAM	19.75	19.79	19.66		
Limit	ERP < 3W			Result			Pass	

<EA 2 Antenna>

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.94	24.04	24.07	29.76	0.9462
10	1	22		23.95	23.96	23.93		
10	12	6		24.17	24.14	24.09		
10	1	0		23.48	23.65	23.57		
10	1	23		23.52	23.54	23.46		
10	24	0		23.67	23.59	23.51		
10	1	1	QPSK	24.21	24.21	24.23		
10	1	22		24.26	24.20	24.24		
10	12	6		24.18	24.18	24.11		
10	1	0		23.15	23.12	23.24		
10	1	23		23.24	23.15	23.16		
10	24	0		23.21	23.11	23.07		
10	1	1	16-QAM	23.24	23.10	23.24	28.74	0.7482
10	1	1	64-QAM	21.75	21.57	21.88		
10	1	1	256-QAM	19.39	19.34	19.49		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.95	24.15	23.98	29.92	0.9817
15	1	36		24.05	24.01	23.87		
15	18	9		24.17	24.15	24.06		
15	1	0		23.46	23.68	23.51		
15	1	37		23.57	23.54	23.42		
15	36	0		23.67	23.62	23.51		
15	1	1	QPSK	24.25	24.37	24.21		
15	1	36		24.42	24.39	24.14		
15	18	9		24.13	24.09	23.98		
15	1	0		23.18	23.24	23.15		
15	1	37		23.31	23.24	23.09		
15	36	0		23.21	23.15	23.12		
15	1	1	16-QAM	23.18	23.24	23.03	28.74	0.7482
15	1	1	64-QAM	21.73	21.85	21.47		
15	1	1	256-QAM	19.42	19.50	19.35		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.90	24.12	24.02	29.97	0.9931
20	1	49		24.05	24.16	23.91		
20	25	12		24.17	24.13	24.04		
20	1	0		23.45	23.60	23.54		
20	1	50		23.64	23.65	23.45		
20	50	0		23.67	23.54	23.65		
20	1	1	QPSK	24.12	24.36	24.32		
20	1	49		24.38	24.47	24.24		
20	25	12		24.13	24.14	24.15		
20	1	0		23.15	23.20	23.18		
20	1	50		23.32	23.36	23.05		
20	50	0		23.23	23.04	23.07		
20	1	1	16-QAM	23.05	23.27	23.02	28.77	0.7534
20	1	1	64-QAM	21.46	21.89	21.51		
20	1	1	256-QAM	19.35	19.53	19.39		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
25	1	1	PI/2 BPSK	23.42	23.47	23.50	29.53	0.8974
25	1	63		23.43	23.46	23.39		
25	32	16		23.95	23.99	24.01		
25	1	0		22.94	23.07	23.04		
25	1	64		22.95	22.96	22.98		
25	64	0		23.42	23.12	23.47		
25	1	1	QPSK	23.57	23.62	23.79		
25	1	63		23.51	23.71	23.61		
25	32	16		24.01	24.03	24.02		
25	1	0		22.49	22.52	22.67		
25	1	64		22.54	22.65	22.51		
25	64	0		22.94	22.62	22.96		
25	1	1	16-QAM	22.57	22.64	22.84	28.34	0.6823
25	1	1	64-QAM	21.13	21.16	21.36		
25	1	1	256-QAM	18.79	18.87	19.04		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.05	24.04	24.09	29.92	0.9817
30	1	76		24.10	24.03	24.02		
30	36	18		24.21	24.16	24.21		
30	1	0		23.56	23.57	23.62		
30	1	77		23.63	23.51	23.57		
30	75	0		23.74	23.52	23.72		
30	1	1	QPSK	24.42	24.23	24.42		
30	1	76		24.26	24.42	24.25		
30	36	18		24.21	24.23	24.21		
30	1	0		23.24	23.16	23.24		
30	1	77		23.18	23.36	23.17		
30	75	0		23.24	23.02	23.29		
30	1	1	16-QAM	23.32	23.04	23.39	28.89	0.7745
30	1	1	64-QAM	21.87	21.55	21.87		
30	1	1	256-QAM	19.54	19.38	19.53		
Limit	EIRP < 1W			Result			Pass	

NR n66 Maximum Average Power [dBm] (GT - LC = 5.5 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.07	24.18	24.12	29.99	0.9977
40	1	104		24.13	24.16	24.04		
40	50	25		24.05	24.10	24.11		
40	1	0		23.68	23.63	23.62		
40	1	105		23.72	23.75	23.62		
40	100	0		23.72	23.31	23.86		
40	1	1	QPSK	24.37	24.40	24.23		
40	1	104		24.42	24.49	24.38		
40	50	25		24.13	24.11	24.20		
40	1	0		23.31	23.35	23.18		
40	1	105		23.46	23.45	23.35		
40	100	0		23.24	22.85	23.43		
40	1	1	16-QAM	23.39	23.43	23.18	28.93	0.7816
40	1	1	64-QAM	21.92	21.93	21.64		
40	1	1	256-QAM	19.54	19.62	19.45		
Limit	EIRP < 1W			Result			Pass	

<MIMO Mode>
<SCS 15k>

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	22.02	21.30	21.67	22.45	22.62	22.94	25.25	25.02	25.47	32.36	1.7219
10	1	50		21.51	21.42	22.00	22.81	22.73	23.04	25.22	25.13	25.56		
10	26	13		21.67	21.50	21.76	22.43	22.45	22.71	25.08	25.01	25.27		
10	1	0		18.05	18.06	18.25	18.72	19.00	19.05	21.41	21.57	21.68		
10	1	51		18.05	18.00	18.35	18.85	18.85	19.25	21.48	21.46	21.83		
10	52	0		20.70	20.57	20.78	21.60	21.62	21.75	24.18	24.14	24.30		
10	1	1	16-QAM	21.02	21.00	21.12	21.77	21.62	21.93	24.42	24.33	24.55	31.35	1.3646
10	1	1	64-QAM	20.71	20.35	20.75	21.23	21.07	21.35	23.99	23.74	24.07		
10	1	1	256-QAM	17.05	17.02	17.25	17.51	17.45	17.79	20.30	20.25	20.54		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	21.79	21.57	21.70	23.15	22.81	22.90	25.53	25.24	25.35	32.33	1.7100
15	1	77		21.85	21.63	21.70	23.00	23.02	22.90	25.47	25.39	25.35		
15	39	19		22.00	21.62	21.75	22.57	22.70	22.60	25.30	25.20	25.21		
15	1	0		18.35	18.02	18.15	19.00	18.90	18.90	21.70	21.49	21.55		
15	1	78		18.32	18.15	18.20	19.05	19.02	19.11	21.71	21.62	21.69		
15	79	0		21.00	20.67	20.71	21.54	21.67	21.61	24.29	24.21	24.19		
15	1	1	16-QAM	21.28	21.00	21.05	22.00	21.91	21.90	24.67	24.49	24.51	31.47	1.4028
15	1	1	64-QAM	20.97	20.56	20.72	21.52	21.32	21.32	24.26	23.97	24.04		
15	1	1	256-QAM	17.32	17.15	17.15	17.79	17.73	17.74	20.57	20.46	20.47		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	21.60	21.35	21.55	22.50	22.60	22.38	25.08	25.03	25.00	32.00	1.5849
20	1	104		21.60	21.57	21.71	22.57	22.62	22.63	25.12	25.14	25.20		
20	53	26		21.67	21.45	21.67	22.45	22.57	22.61	25.09	25.06	25.18		
20	1	0		18.25	18.00	18.21	19.00	18.91	18.95	21.65	21.49	21.61		
20	1	105		18.25	18.12	18.35	19.20	19.23	19.25	21.76	21.72	21.83		
20	106	0		20.70	20.55	20.71	21.52	21.53	21.68	24.14	24.08	24.23		
20	1	1	16-QAM	21.50	21.05	21.27	21.91	21.81	21.91	24.72	24.46	24.61	31.52	1.4191
20	1	1	64-QAM	20.50	20.12	20.45	21.52	21.39	21.43	24.05	23.81	23.98		
20	1	1	256-QAM	17.35	17.15	17.35	18.02	18.02	18.00	20.71	20.62	20.70		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	21.85	22.38	21.75	22.42	22.43	22.23	25.15	25.42	25.01	32.22	1.6672
30	1	158		21.44	21.52	21.77	22.51	22.48	22.48	25.02	25.04	25.15		
30	80	40		21.62	21.58	21.71	22.45	22.47	22.58	25.07	25.06	25.18		
30	1	0		18.22	17.79	17.92	18.75	18.85	18.74	21.50	21.36	21.36		
30	1	159		17.99	18.12	18.26	18.92	19.00	19.05	21.49	21.59	21.68		
30	160	0		20.64	20.52	20.74	21.45	21.42	21.45	24.07	24.00	24.12		
30	1	1	16-QAM	21.47	21.00	21.18	22.45	22.45	22.35	25.00	24.80	24.81	31.80	1.5136
30	1	1	64-QAM	20.87	20.23	20.52	21.72	21.71	21.64	24.33	24.04	24.13		
30	1	1	256-QAM	17.45	16.91	17.05	17.89	17.93	17.87	20.69	20.46	20.49		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.02	21.62	21.73	22.57	22.71	22.45	25.31	25.21	25.12	32.37	1.7258
40	1	214		22.05	22.04	22.05	22.91	23.03	22.71	25.51	25.57	25.40		
40	108	54		22.02	21.79	21.66	22.71	22.45	22.43	25.39	25.14	25.07		
40	1	0		18.41	18.24	18.28	19.06	19.35	18.87	21.76	21.84	21.60		
40	1	215		18.92	18.85	18.79	20.02	19.35	19.38	22.52	22.12	22.11		
40	216	0		21.00	21.00	20.81	21.45	21.47	21.35	24.24	24.25	24.10		
40	1	1	16-QAM	21.45	21.05	21.34	22.21	22.03	22.19	24.86	24.58	24.80	31.66	1.4655
40	1	1	64-QAM	21.00	21.00	20.98	21.75	22.03	21.75	24.40	24.56	24.39		
40	1	1	256-QAM	17.62	17.35	17.31	18.34	18.45	18.21	21.01	20.95	20.79		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.45	22.21	21.85	22.71	22.54	22.66	25.59	25.39	25.28	32.39	1.7338
50	1	268		22.00	21.92	22.06	22.67	22.56	22.65	25.36	25.26	25.38		
50	135	67		21.71	21.78	21.63	22.46	22.45	22.38	25.11	25.14	25.03		
50	1	0		18.55	18.12	18.21	19.00	19.21	19.05	21.79	21.71	21.66		
50	1	269		19.00	18.95	18.61	19.85	19.88	19.38	22.46	22.45	22.02		
50	270	0		20.80	20.68	20.71	21.50	21.71	21.54	24.17	24.24	24.16		
50	1	1	16-QAM	21.57	21.12	21.53	22.64	22.45	21.92	25.15	24.85	24.74	31.95	1.5668
50	1	1	64-QAM	21.15	20.89	21.02	22.05	22.01	22.15	24.63	24.50	24.63		
50	1	1	256-QAM	18.02	17.12	17.15	18.81	18.32	18.21	21.44	20.77	20.72		
Limit	EIRP < 2W			Result									Pass	

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NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	22.87	22.17	22.30	23.10	23.22	23.42	26.00	25.74	25.91	32.80	1.9055
10	1	22		22.64	22.17	22.33	23.10	23.18	23.42	25.89	25.71	25.92		
10	12	6		22.32	22.19	22.43	23.36	23.29	23.42	25.88	25.79	25.96		
10	1	0		18.83	18.60	18.77	19.63	19.82	19.93	22.25	22.25	22.39		
10	1	23		18.76	18.65	18.85	19.58	19.87	19.94	22.18	22.31	22.44		
10	24	0		21.35	21.15	21.40	22.33	22.28	22.42	24.87	24.77	24.96		
10	1	1	16-QAM	21.88	21.84	21.94	22.02	22.96	23.06	25.51	25.48	25.54	32.34	1.7140
10	1	1	64-QAM	21.28	21.13	21.31	22.05	22.25	22.14	24.69	24.74	24.76		
10	1	1	256-QAM	17.89	17.75	17.95	18.69	18.61	18.70	21.32	21.21	21.35		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	22.40	22.14	22.21	23.22	23.07	23.19	25.84	25.64	25.74	32.82	1.9143
15	1	36		22.32	22.15	22.32	23.24	22.99	23.22	25.81	25.60	25.80		
15	19	9		22.47	22.18	22.36	23.48	23.31	23.57	26.01	25.79	26.02		
15	1	0		18.79	18.66	18.75	19.78	19.67	19.80	22.32	22.20	22.32		
15	1	37		18.82	18.74	18.76	19.74	19.67	19.83	22.31	22.24	22.34		
15	38	0		21.44	21.22	21.31	22.28	22.30	22.43	24.89	24.80	24.92		
15	1	1	16-QAM	21.52	21.55	21.45	22.95	22.85	22.97	25.30	25.26	25.29	32.10	1.6218
15	1	1	64-QAM	21.45	21.20	21.27	22.24	22.15	21.25	24.87	24.71	24.27		
15	1	1	256-QAM	18.15	17.75	17.78	18.75	18.70	18.80	21.47	21.26	21.33		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.31	22.15	22.27	23.40	23.34	23.54	25.90	25.80	25.96	32.76	1.8880
20	1	49		22.28	22.13	22.35	23.45	22.99	22.42	25.91	25.59	25.40		
20	25	12		22.44	22.20	22.34	23.32	23.37	23.49	25.91	25.83	25.96		
20	1	0		18.89	18.69	18.78	19.74	19.69	19.74	22.35	22.23	22.30		
20	1	50		18.82	18.75	18.86	19.74	19.92	19.85	22.31	22.38	22.39		
20	51	0		21.44	21.22	21.38	22.33	22.37	22.50	24.92	24.84	24.99		
20	1	1	16-QAM	22.00	21.64	21.73	22.81	22.95	22.83	25.43	25.35	25.33	32.23	1.6711
20	1	1	64-QAM	21.77	21.22	21.57	22.00	22.21	22.06	24.90	24.75	24.83		
20	1	1	256-QAM	17.66	17.80	17.68	18.72	18.77	18.82	21.23	21.32	21.30		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	22.42	22.22	22.22	23.21	23.14	23.28	25.84	25.71	25.79	32.76	1.8880
30	1	76		22.28	22.25	22.49	23.39	22.22	23.37	25.88	25.25	25.96		
30	39	19		22.35	22.30	22.44	23.24	23.26	23.30	25.83	25.82	25.90		
30	1	0		18.94	18.59	18.75	19.68	19.78	19.58	22.34	22.24	22.20		
30	1	77		18.79	18.87	19.00	19.79	19.82	19.96	22.33	22.38	22.52		
30	78	0		21.35	21.29	21.42	22.20	22.28	22.30	24.81	24.82	24.89		
30	1	1	16-QAM	22.62	21.85	21.93	22.55	22.64	22.71	25.60	25.27	25.35	32.40	1.7378
30	1	1	64-QAM	21.70	21.28	21.35	22.47	22.53	22.27	25.11	24.96	24.84		
30	1	1	256-QAM	18.05	17.78	17.77	18.65	18.72	18.56	21.37	21.29	21.19		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.62	22.27	22.32	23.25	23.22	22.98	25.96	25.78	25.67	32.83	1.9187
40	1	104		22.35	22.42	22.61	23.36	22.00	23.39	25.89	25.23	26.03		
40	53	26		22.32	22.28	22.42	22.27	23.27	23.31	25.31	25.81	25.90		
40	1	0		19.07	18.62	18.82	19.83	19.90	19.68	22.48	22.32	22.28		
40	1	105		18.91	19.00	19.12	19.95	20.04	20.06	22.47	22.56	22.63		
40	106	0		21.34	21.30	21.42	22.23	22.25	22.23	24.82	24.81	24.85		
40	1	1	16-QAM	22.53	22.00	21.91	22.72	22.72	22.65	25.64	25.39	25.31	32.44	1.7539
40	1	1	64-QAM	21.82	21.32	21.47	22.61	22.61	22.31	25.24	25.02	24.92		
40	1	1	256-QAM	18.11	17.78	17.82	18.75	18.79	18.61	21.45	21.32	21.24		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.63	22.20	22.22	23.14	23.14	23.16	25.90	25.71	25.73	32.84	1.9231
50	1	131		22.31	22.42	22.59	23.27	22.20	23.43	25.83	25.32	26.04		
50	67	33		22.35	22.28	22.38	23.26	23.26	23.20	25.84	25.81	25.82		
50	1	0		19.00	18.59	18.69	19.75	19.70	19.67	22.40	22.19	22.22		
50	1	132		18.76	19.00	19.00	19.88	19.86	19.98	22.37	22.46	22.53		
50	133	0		21.38	21.31	21.39	22.24	22.31	22.14	24.84	24.85	24.79		
50	1	1	16-QAM	22.41	21.96	21.91	22.67	22.61	22.53	25.55	25.31	25.24	32.35	1.7179
50	1	1	64-QAM	21.81	21.40	21.25	22.52	22.47	22.38	25.19	24.98	24.86		
50	1	1	256-QAM	18.14	17.75	17.77	18.67	18.73	18.57	21.42	21.28	21.20		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	22.41	22.06	22.00	23.08	23.00	22.89	25.77	25.57	25.48	32.76	1.8880
60	1	160		22.07	22.42	22.54	23.18	22.79	23.32	25.67	25.62	25.96		
60	81	40		22.37	22.25	22.45	23.29	23.27	23.31	25.86	25.80	25.91		
60	1	0		18.91	18.42	18.49	19.55	19.55	19.49	22.25	22.03	22.03		
60	1	161		18.59	18.87	19.05	19.65	19.85	19.94	22.16	22.40	22.53		
60	162	0		21.31	21.34	21.31	22.18	22.27	22.07	24.78	24.84	24.72		
60	1	1	16-QAM	22.62	21.83	21.35	22.52	22.44	22.54	25.58	25.16	25.00	32.38	1.7298
60	1	1	64-QAM	21.64	21.22	20.75	22.40	22.27	21.82	25.05	24.79	24.33		
60	1	1	256-QAM	18.05	17.62	17.55	18.54	18.54	18.50	21.31	21.11	21.06		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	22.45	21.91	22.01	23.10	23.17	22.96	25.80	25.60	25.52	32.92	1.9588
70	1	187		22.00	22.42	22.80	23.26	23.00	23.40	25.69	25.73	26.12		
70	95	47		22.41	22.26	22.49	23.40	23.32	23.39	25.94	25.83	25.97		
70	1	0		19.00	18.41	18.31	19.71	19.66	19.67	22.38	22.09	22.05		
70	1	188		18.57	18.92	19.15	19.77	19.99	20.29	22.22	22.50	22.77		
70	189	0		21.31	21.30	21.39	22.26	22.32	22.30	24.82	24.85	24.88		
70	1	1	16-QAM	21.87	21.42	21.51	22.76	22.87	23.00	25.35	25.22	25.33	32.15	1.6406
70	1	1	64-QAM	21.45	21.15	21.00	22.22	22.15	21.97	24.86	24.69	24.52		
70	1	1	256-QAM	18.19	17.75	17.62	18.44	18.38	18.33	21.33	21.09	21.00		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	22.37	21.93	21.92	23.21	23.00	23.00	25.82	25.51	25.50	32.88	1.9409
80	1	215		22.15	22.47	22.71	23.43	23.29	23.40	25.85	25.91	26.08		
80	109	54		22.39	22.26	22.49	23.36	23.32	23.31	25.91	25.83	25.93		
80	1	0		19.00	18.48	18.40	19.67	19.58	19.54	22.36	22.08	22.02		
80	1	216		18.60	19.18	19.22	19.93	18.73	20.14	22.33	21.97	22.71		
80	217	0		21.34	21.35	21.42	22.26	22.33	22.28	24.83	24.88	24.88		
80	1	1	16-QAM	22.00	21.47	21.52	22.81	22.79	22.20	25.43	25.19	24.88	32.23	1.6711
80	1	1	64-QAM	21.64	21.08	20.84	22.03	22.02	21.90	24.85	24.59	24.41		
80	1	1	256-QAM	18.20	17.70	17.62	18.47	18.29	18.25	21.35	21.02	20.96		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna OAI 4			Antenna OAI 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	22.42	22.02	21.97	23.20	22.97	22.83	25.84	25.53	25.43	32.90	1.9498
90	1	243		22.32	22.62	22.70	23.47	23.32	23.45	25.94	25.99	26.10		
90	123	61		22.34	22.34	22.48	23.35	23.36	23.40	25.88	25.89	25.97		
90	1	0		19.05	18.53	18.49	19.71	19.61	19.43	22.40	22.11	22.00		
90	1	244		18.96	19.11	19.19	19.98	19.99	20.12	22.51	22.58	22.69		
90	245	0		21.30	21.40	21.30	22.22	22.32	22.20	24.79	24.89	24.78		
90	1	1	16-QAM	21.27	21.52	21.50	22.20	22.85	22.55	24.77	25.25	25.07	32.05	1.6032
90	1	1	64-QAM	20.75	21.22	20.88	21.69	21.94	21.74	24.26	24.61	24.34		
90	1	1	256-QAM	17.82	17.74	17.56	18.64	18.35	18.24	21.26	21.07	20.92		
Limit	EIRP < 2W			Result									Pass	

NR n41 HPUE Maximum Average Power [dBm], DG = 6.8 dBi														
BW	RB	RB	Mod	Antenna			Antenna			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	22.34	22.05	22.02	23.16	23.07	22.97	25.78	25.60	25.53	32.92	1.9588
100	1	271		22.48	22.60	22.80	23.34	23.34	23.40	25.94	26.00	26.12		
100	137	68		22.30	22.28	22.44	23.30	23.34	23.33	25.84	25.85	25.92		
100	1	0		18.97	18.54	18.48	19.65	19.65	19.57	22.33	22.14	22.07		
100	1	272		19.00	19.15	19.20	19.90	20.00	20.15	22.48	22.61	22.71		
100	273	0		21.22	21.44	21.28	22.22	22.35	22.28	24.76	24.93	24.82		
100	1	1	16-QAM	21.81	21.58	21.49	22.67	22.88	22.69	25.27	25.29	25.14	32.09	1.6181
100	1	1	64-QAM	21.62	21.14	20.90	22.05	21.94	21.82	24.85	24.57	24.39		
100	1	1	256-QAM	18.16	17.77	17.58	18.45	18.35	18.30	21.32	21.08	20.97		
Limit	EIRP < 2W			Result									Pass	

FR1 n25

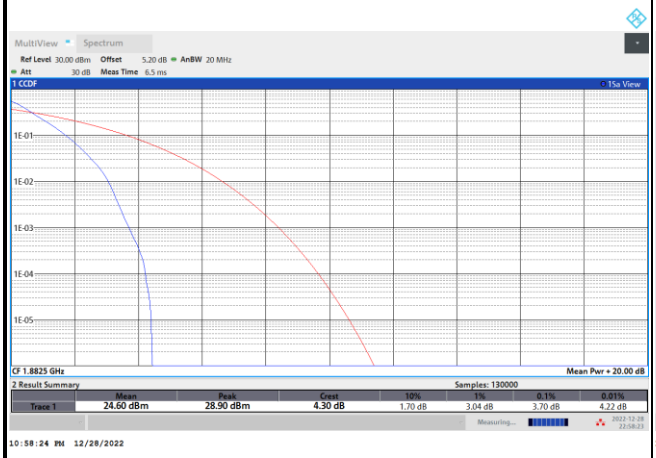
<OAI 2 Antenna>

Peak-to-Average Ratio

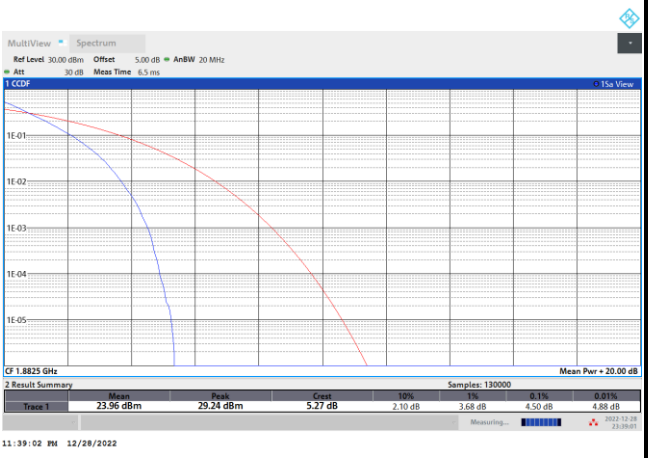
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.70	4.50	5.30	5.64	PASS
Mode	FR1 n25 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.38				PASS

FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

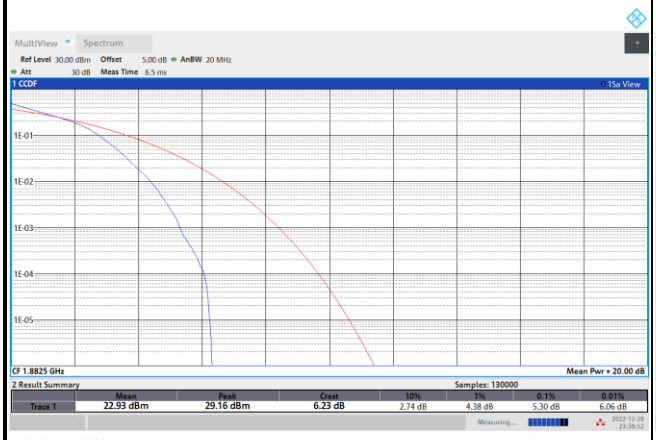
PI/2 BPSK



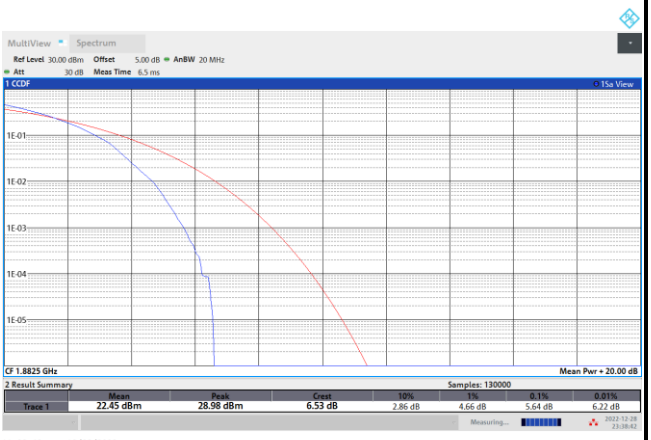
QPSK



16QAM



64QAM



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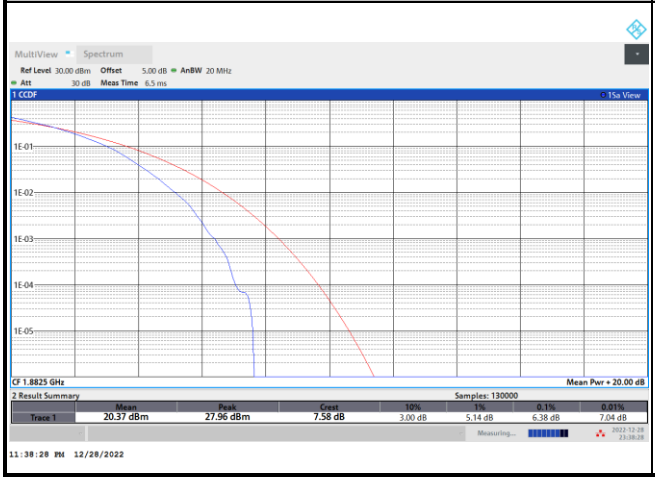


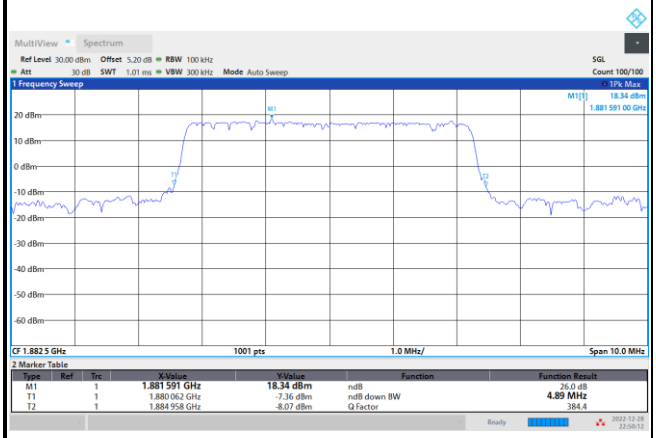
26dB Bandwidth

Mode	FR1 n25 : 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	4.89		9.51		14.27		19.02	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	23.88		29.67		41.00			

Mode	FR1 n25 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.96	5.01	9.93	9.73	15.11	14.99	19.82	20.10
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.91	4.87	9.79	9.81	14.93	14.96	19.98	19.86
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	24.93	24.77	29.67	29.79	41.24	41.16		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	24.77	24.63	29.61	29.61	41.16	41.24		

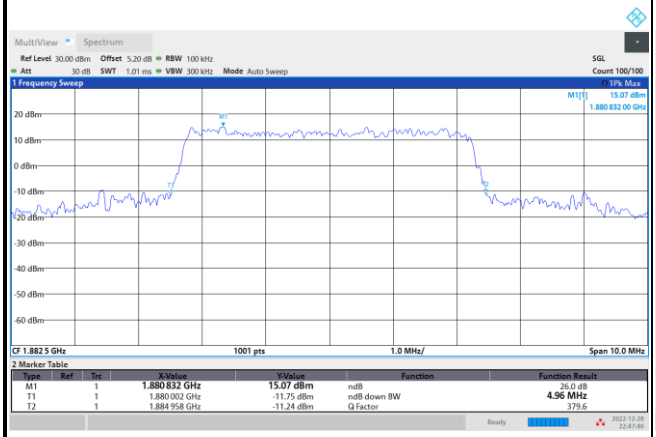
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



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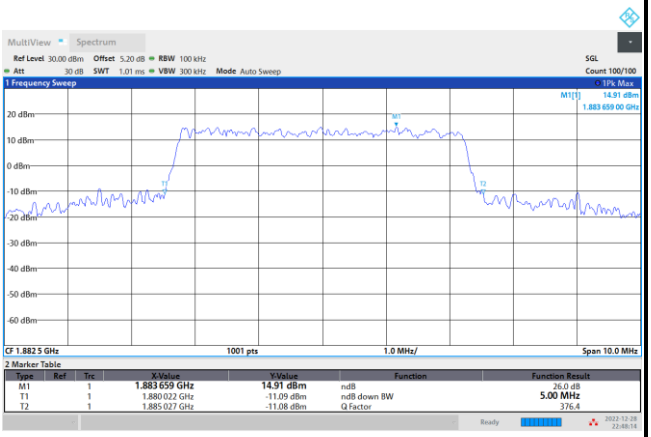

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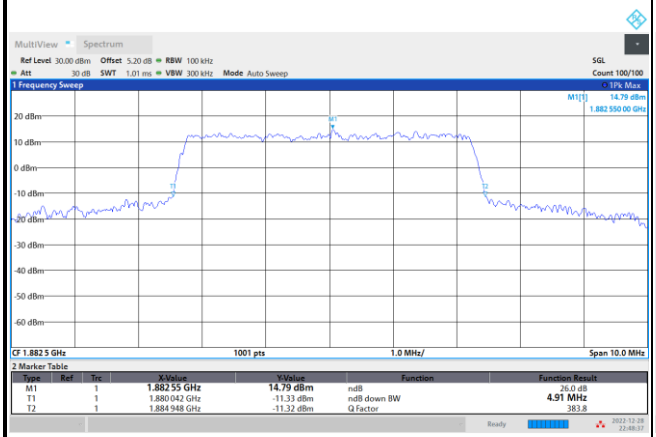
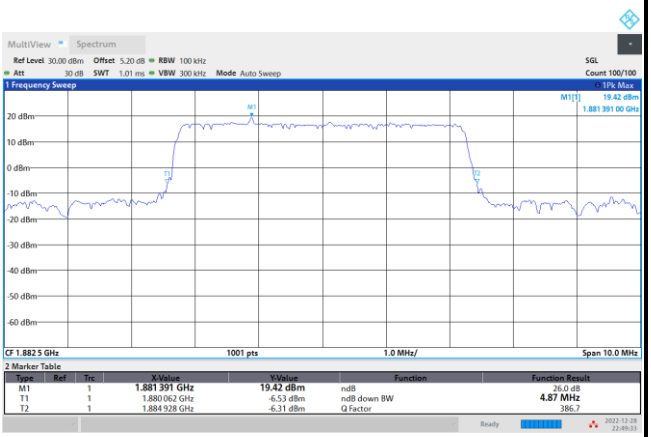
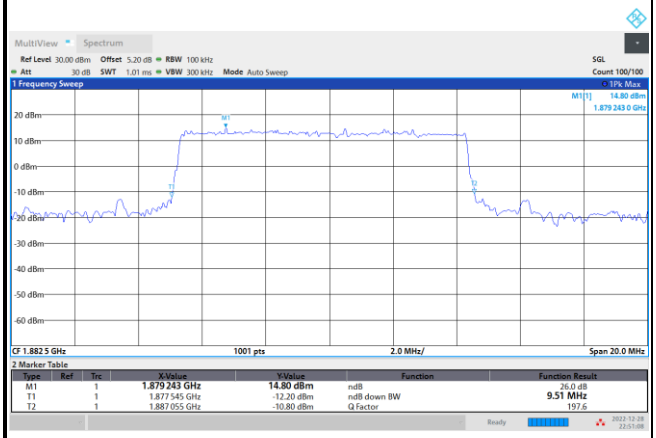


256QAM



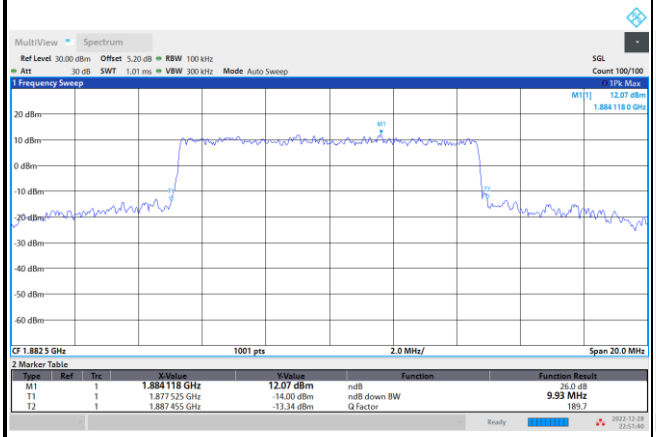
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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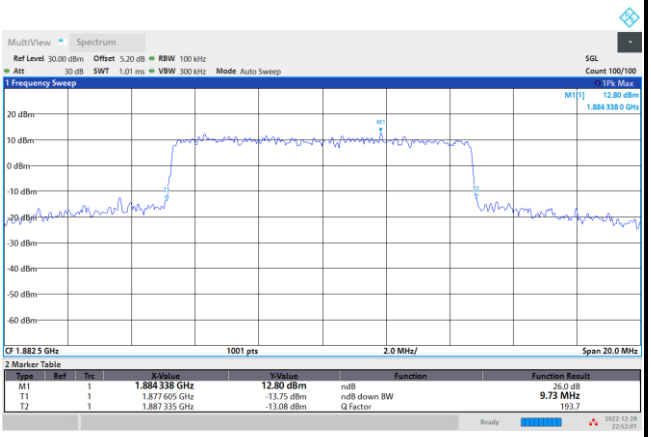

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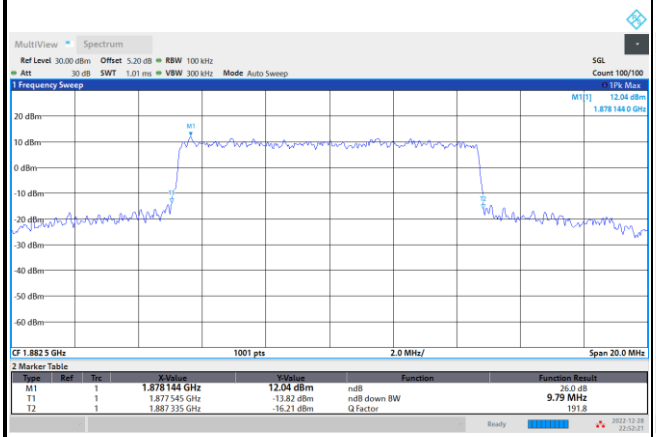

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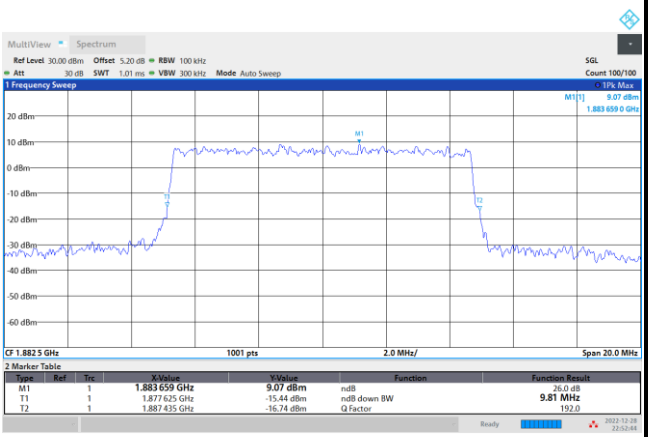
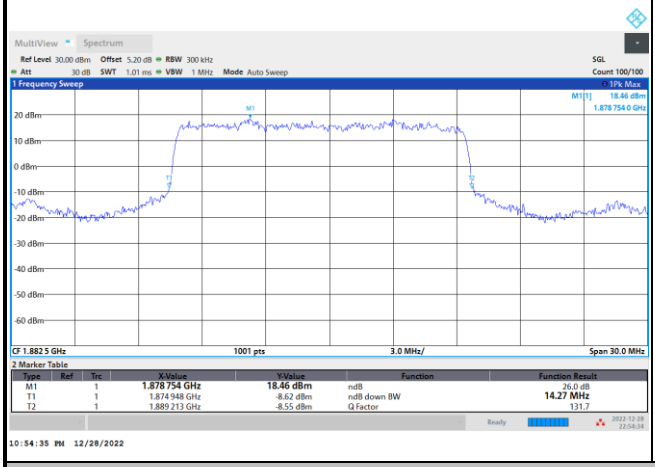


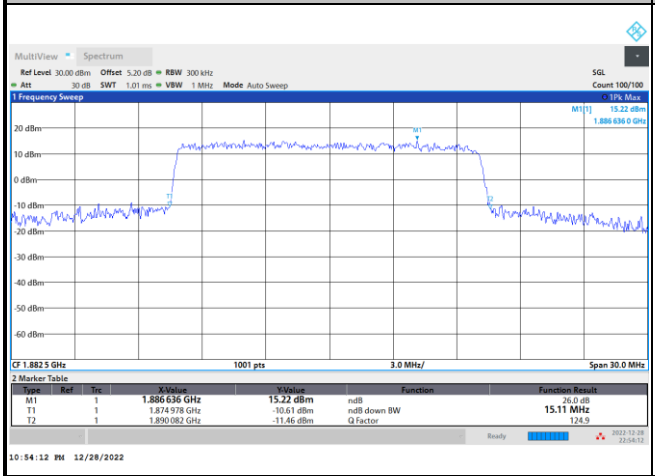
FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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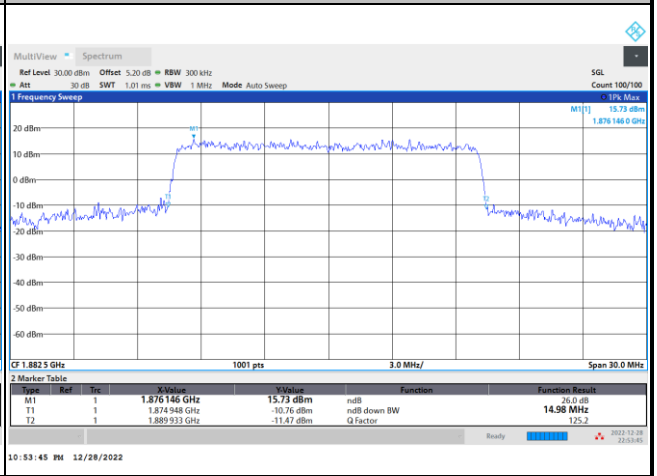

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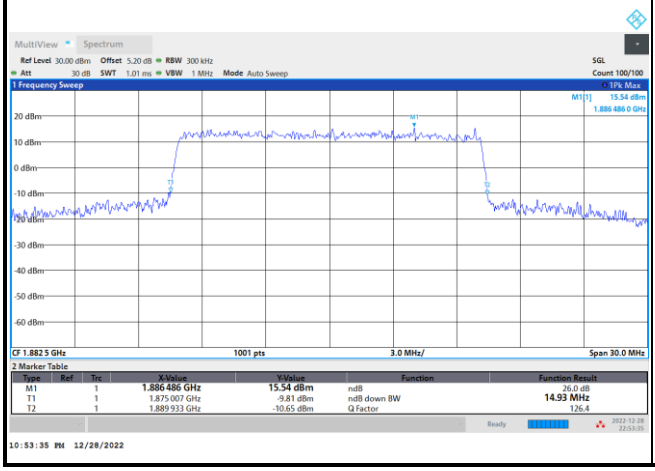

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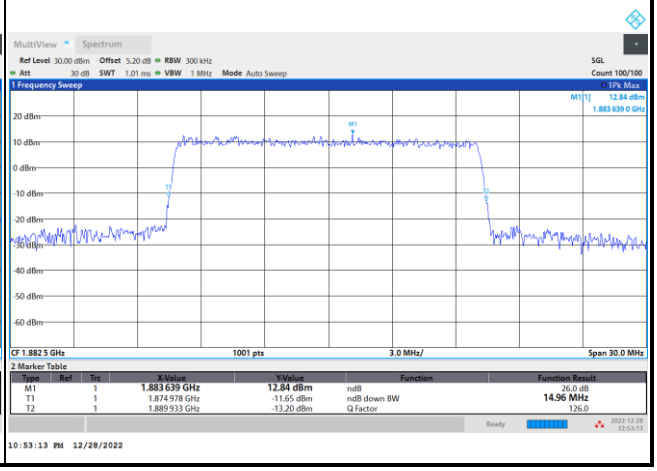
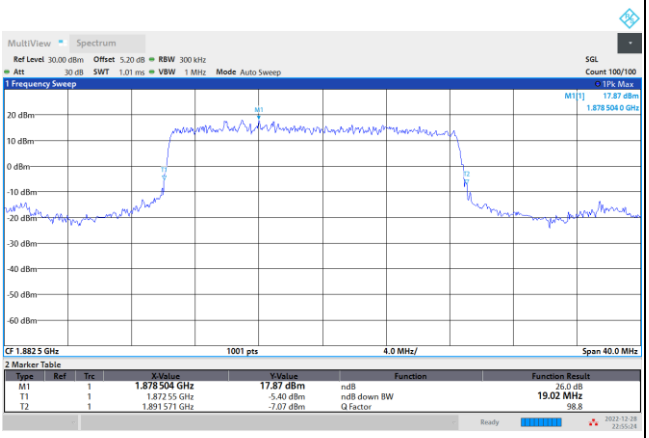


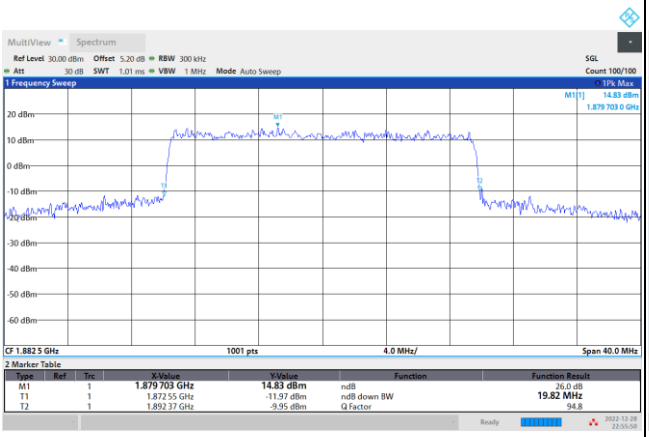
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



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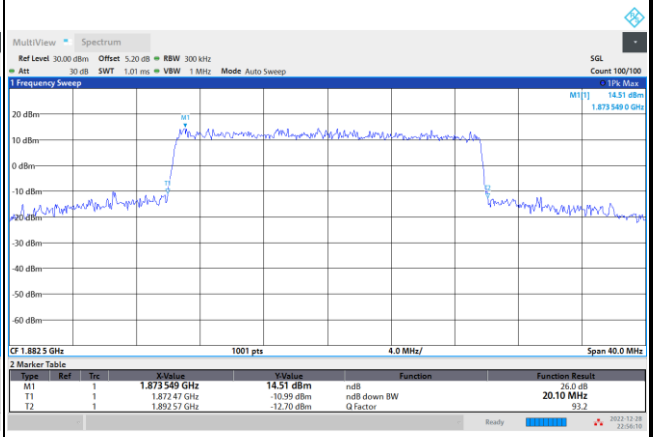

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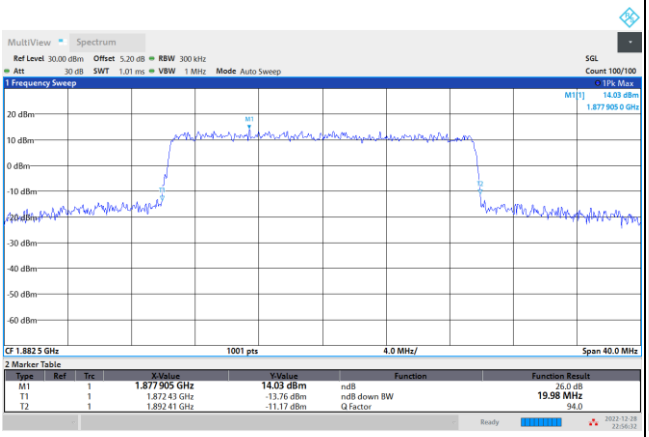

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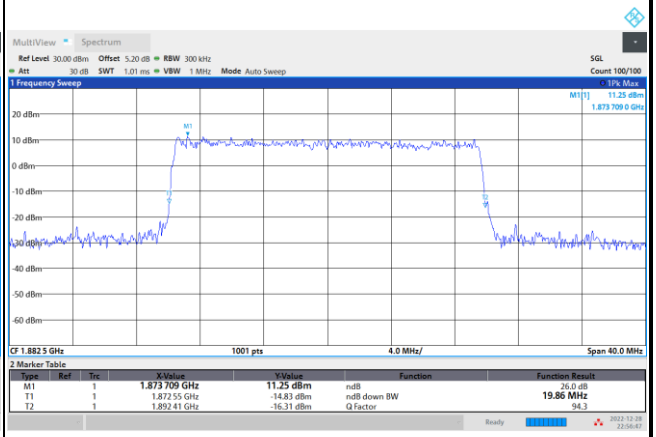
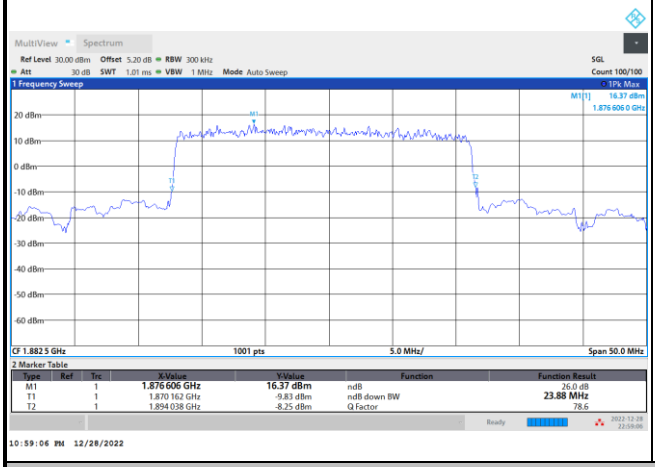


FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

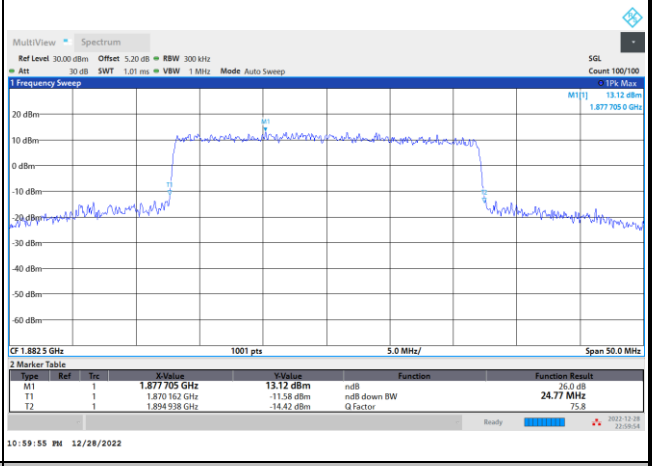
PI/2 BPSK



FR1 n25 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



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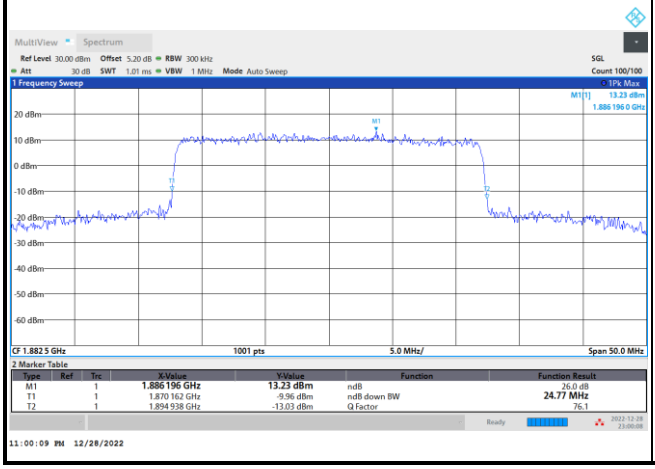

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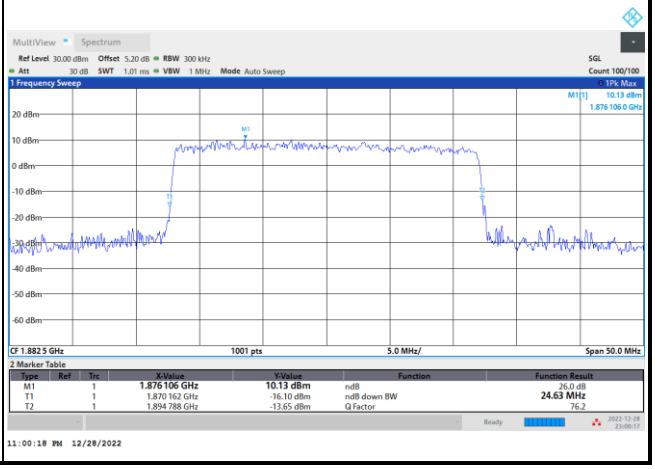
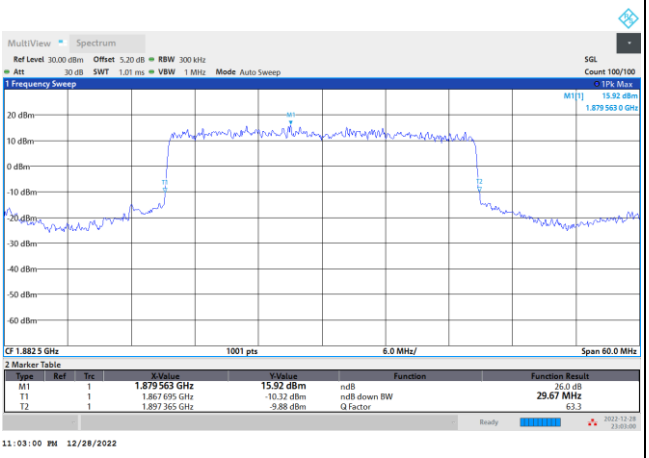


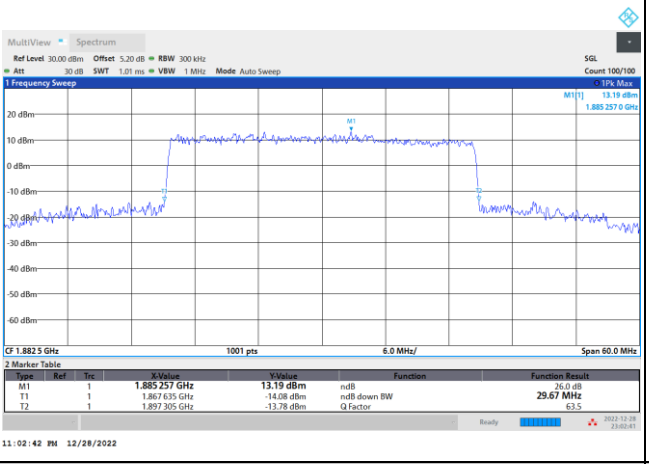
FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



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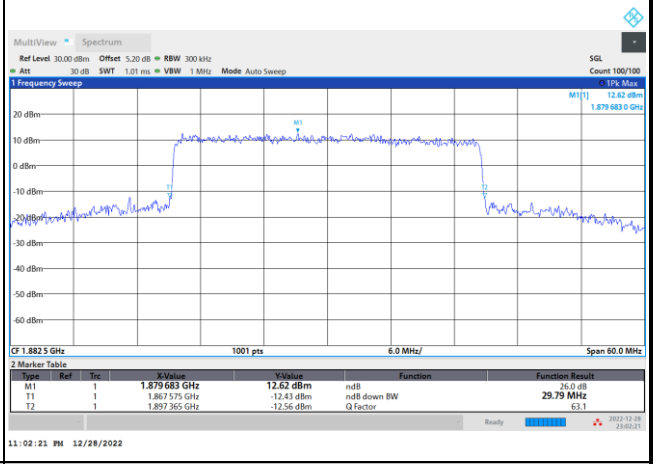

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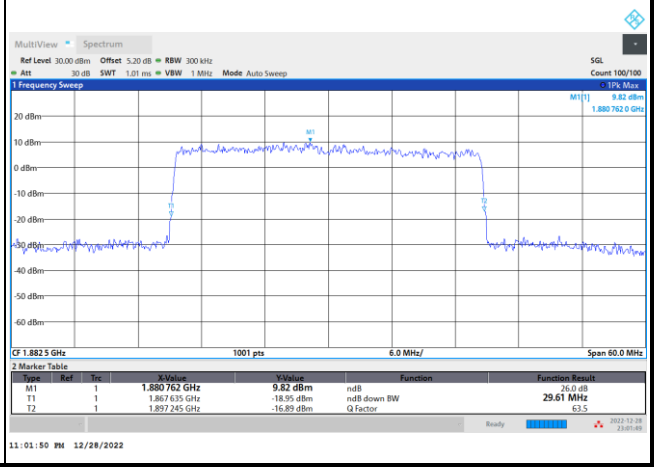
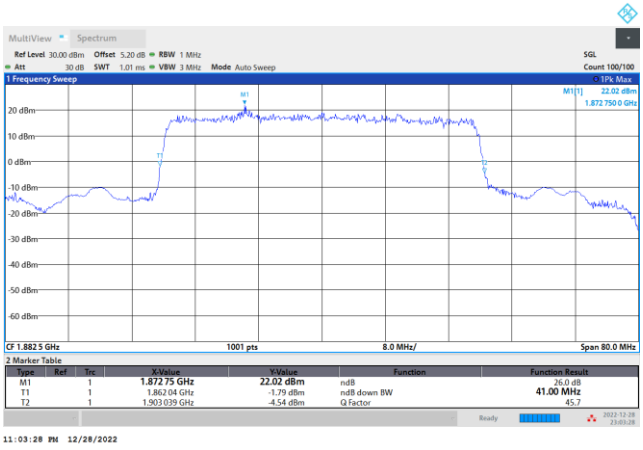


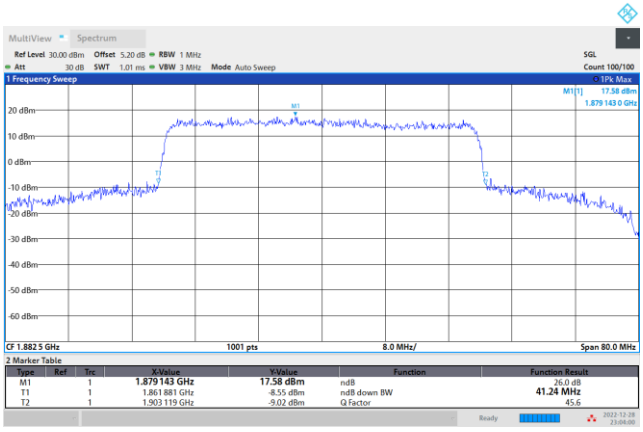
FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



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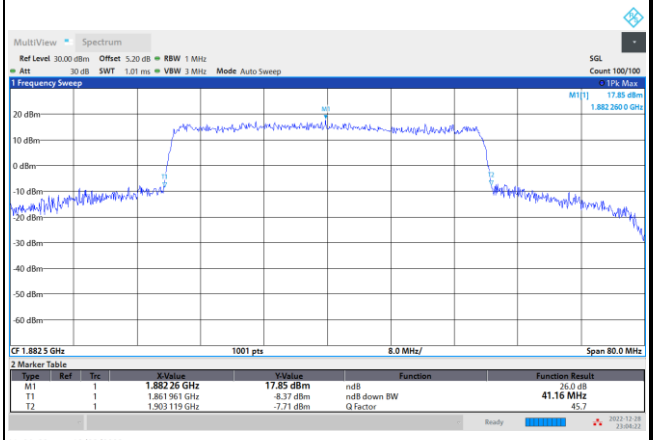

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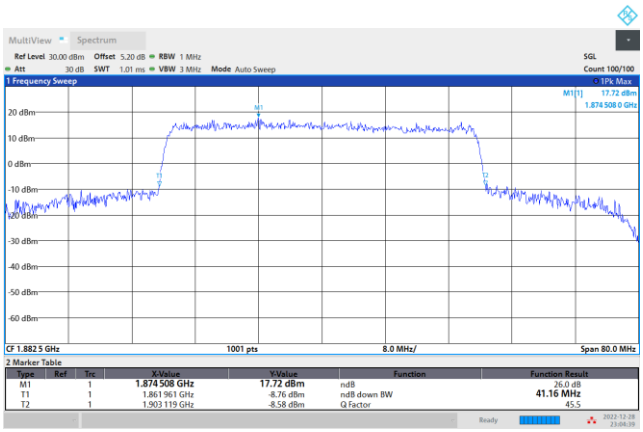

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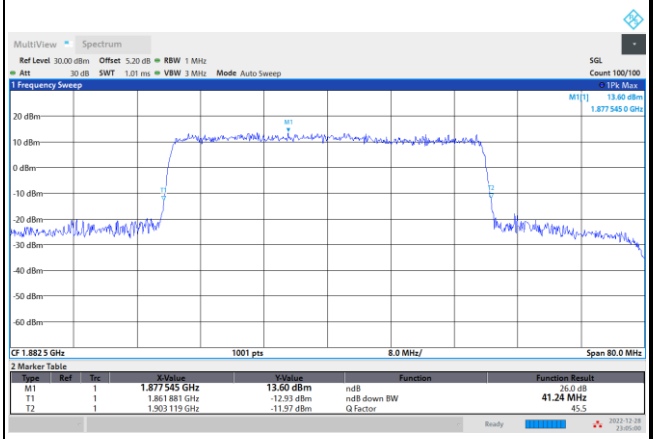


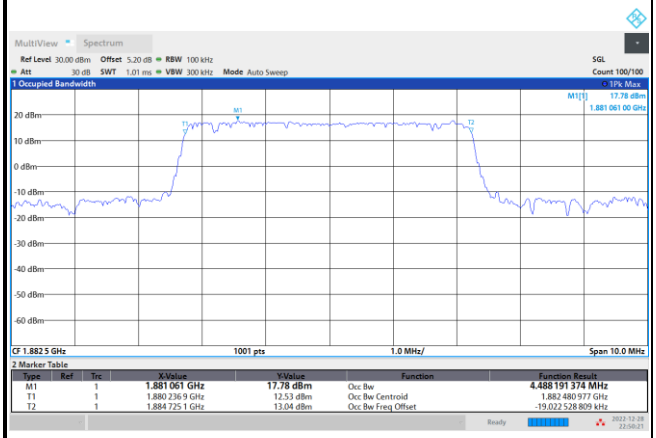
Occupied Bandwidth

Mode	FR1 n25 : 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	4.48		8.91		13.46		17.90	
BW	25MHz		30MHz		40MHz			
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK			
Middle CH	22.83		28.53		38.85			

Mode	FR1 n25 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.48	4.50	9.30	9.28	14.17	14.14	18.98	18.99
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.53	4.47	9.29	9.25	14.22	14.14	18.97	18.96
BW	25MHz		30MHz		40MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	23.73	23.73	28.55	28.53	38.97	38.82		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	23.71	23.67	28.59	28.53	38.86	38.80		

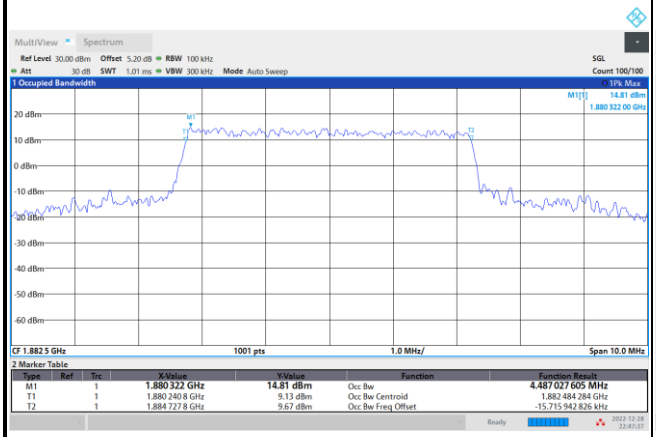
FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

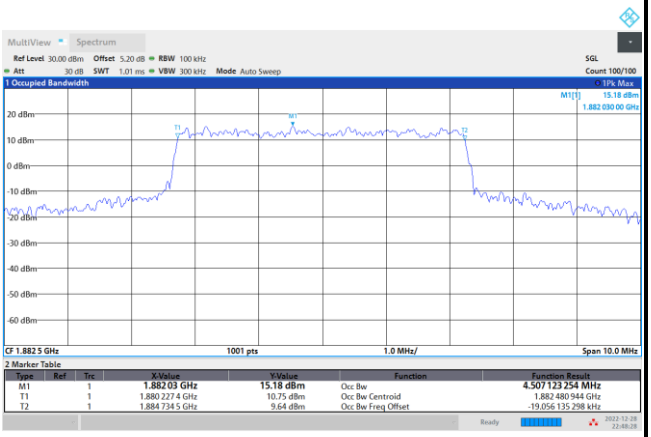


FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB

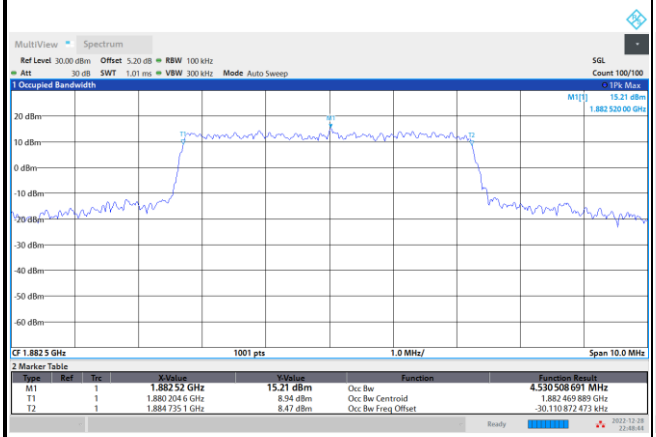
QPSK



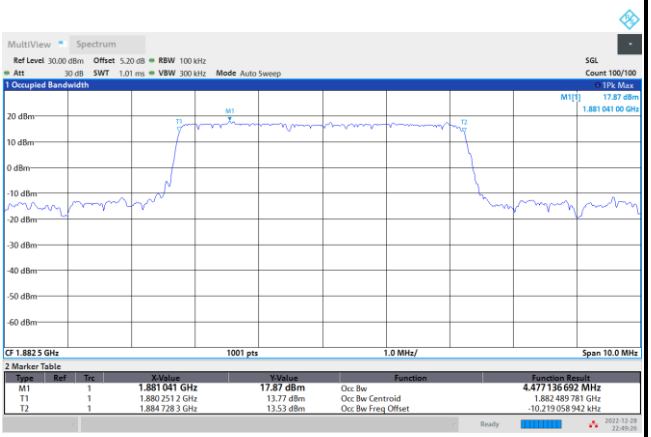
16QAM



64QAM

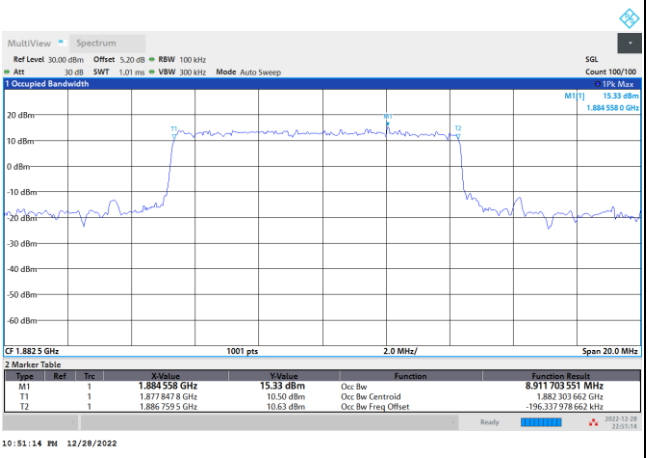


256QAM



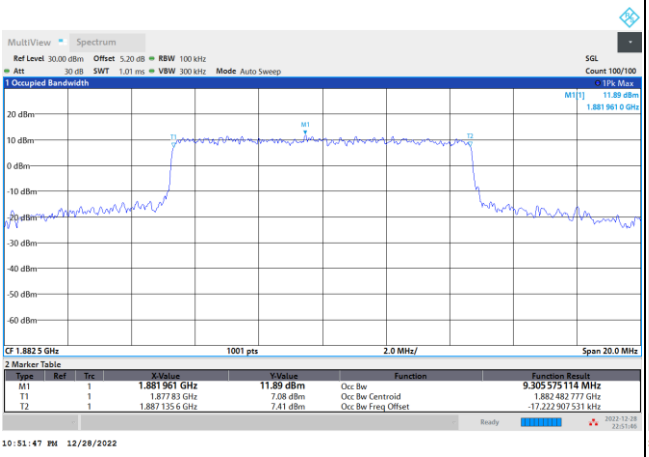
FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



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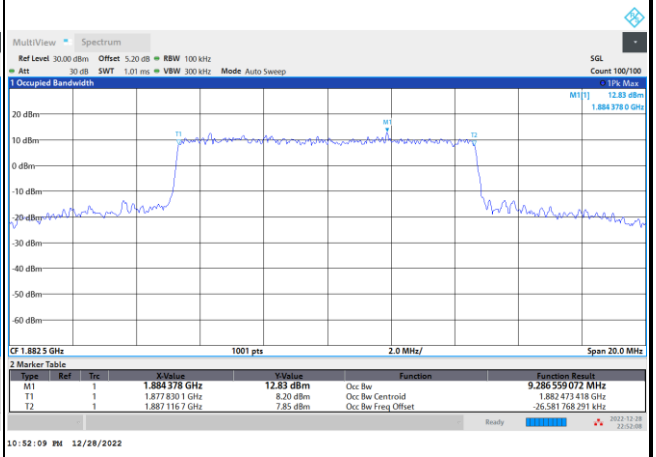

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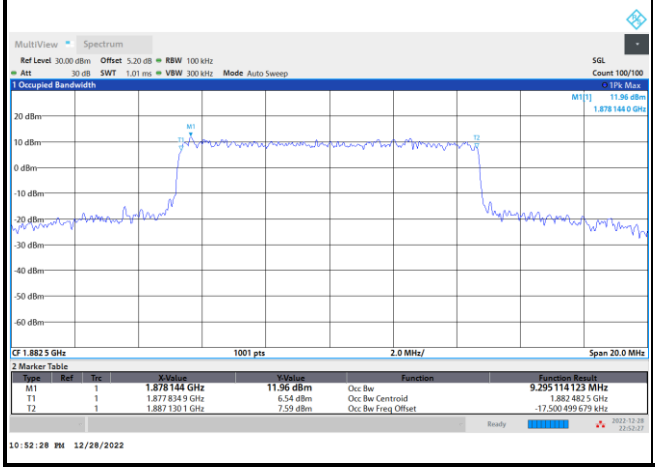

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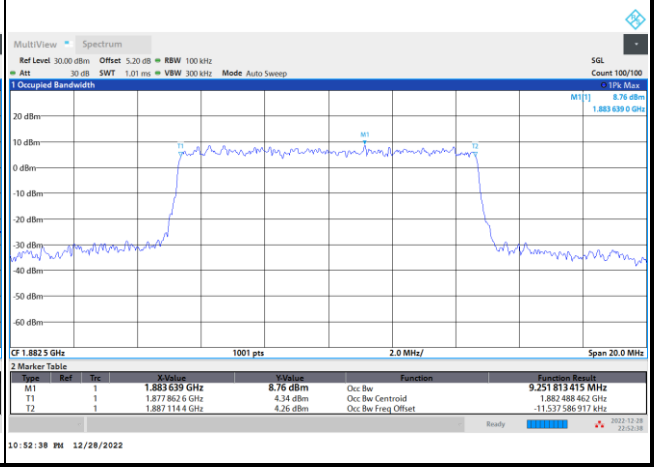
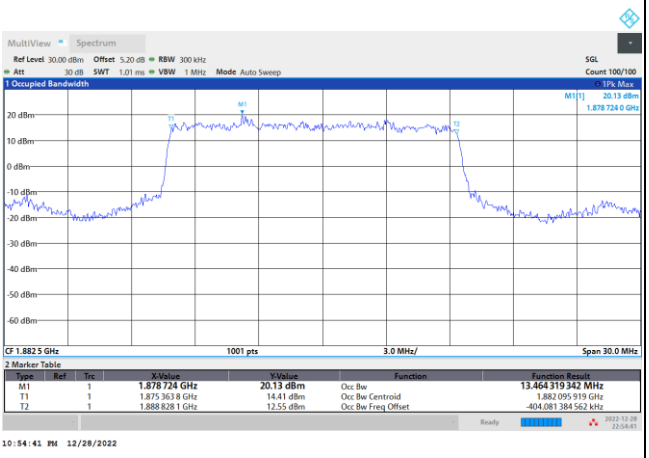


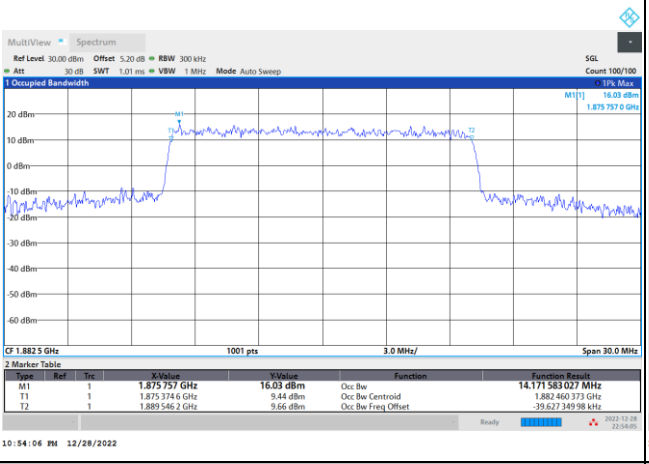
FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



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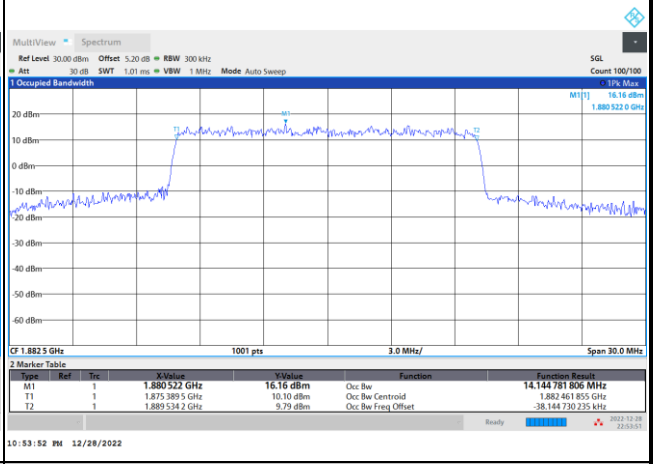

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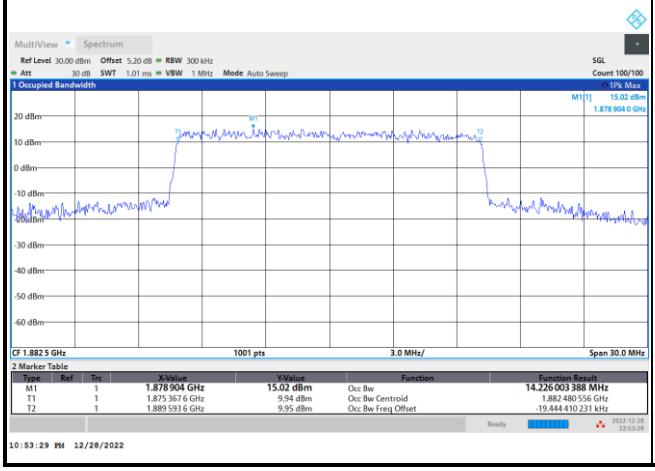

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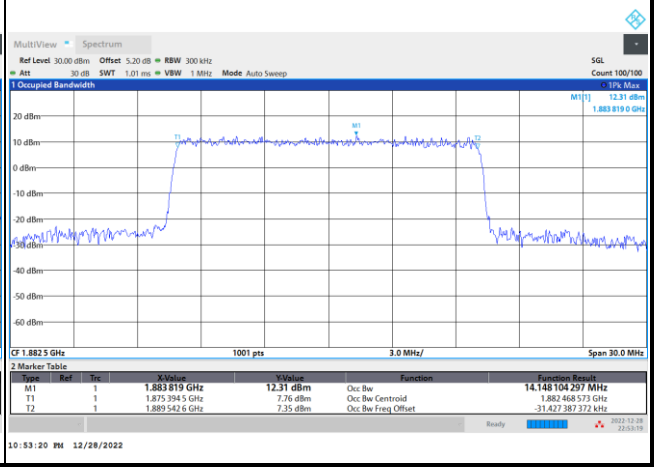
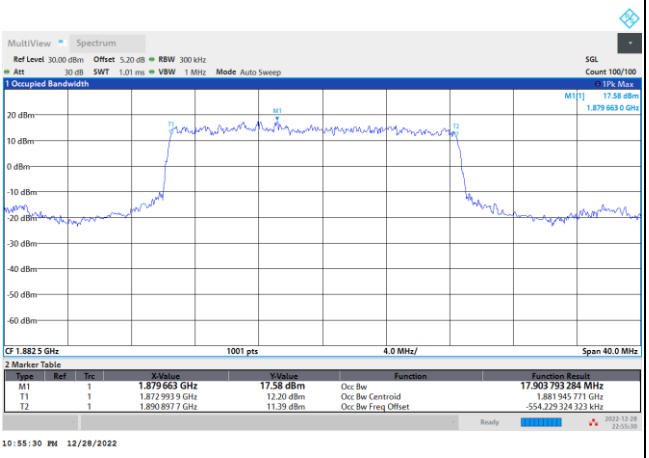


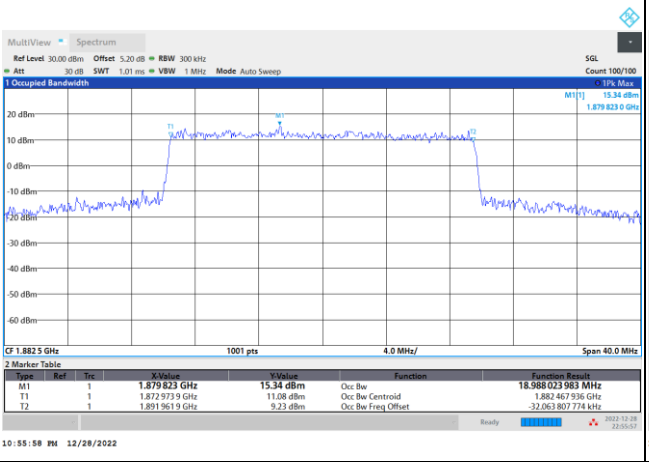
FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



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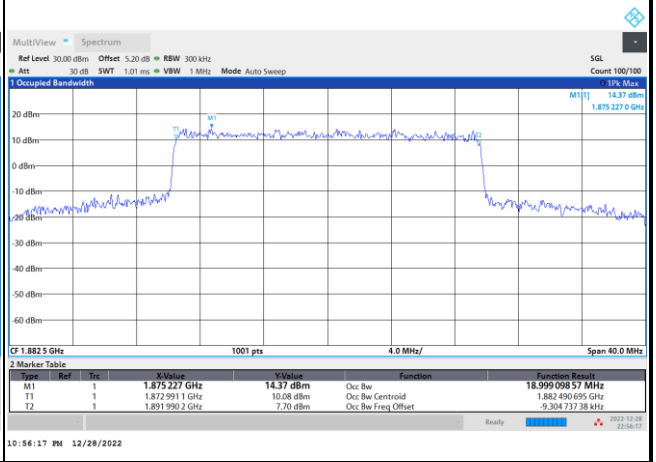

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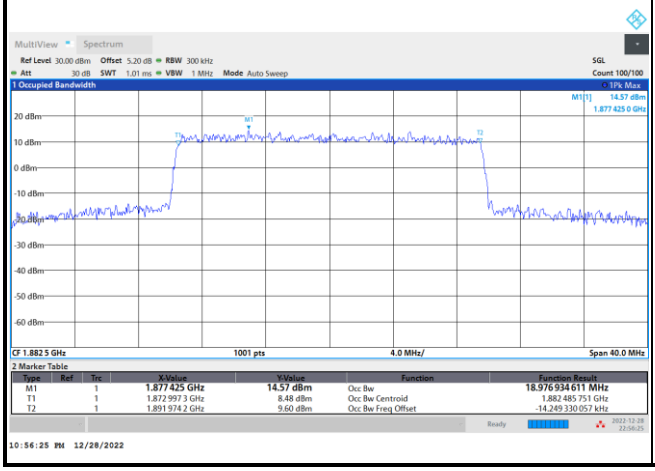

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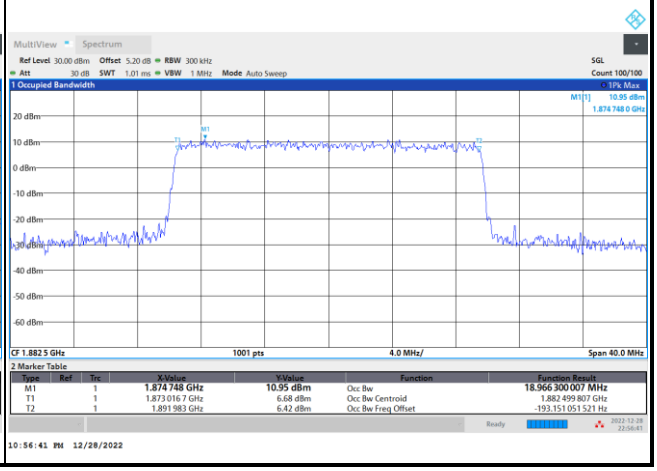
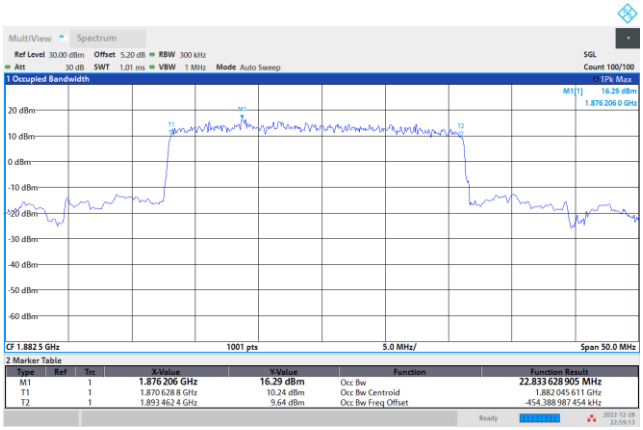


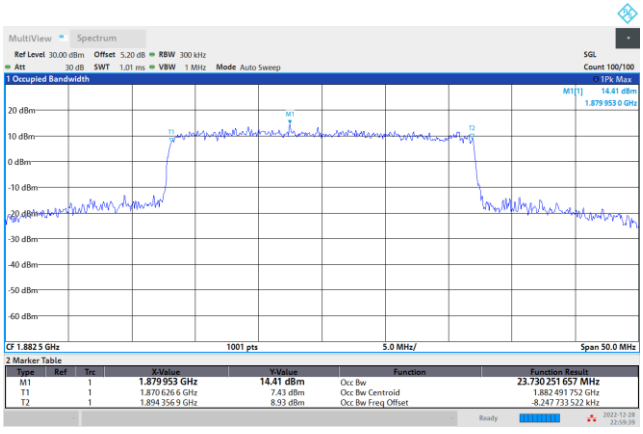
FR1 n25 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



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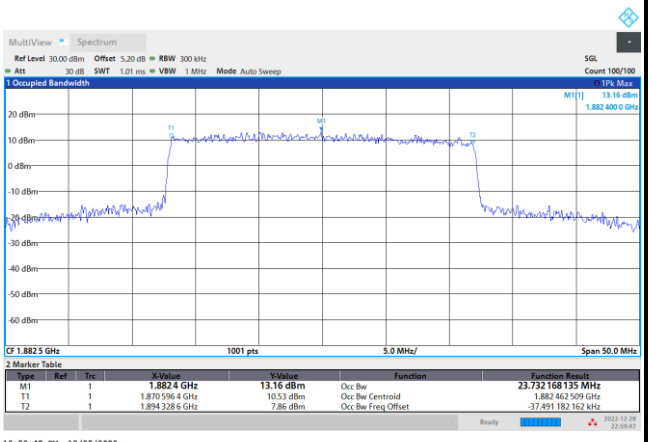

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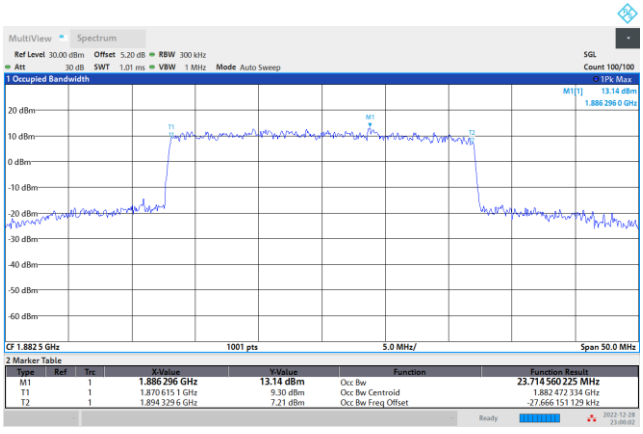

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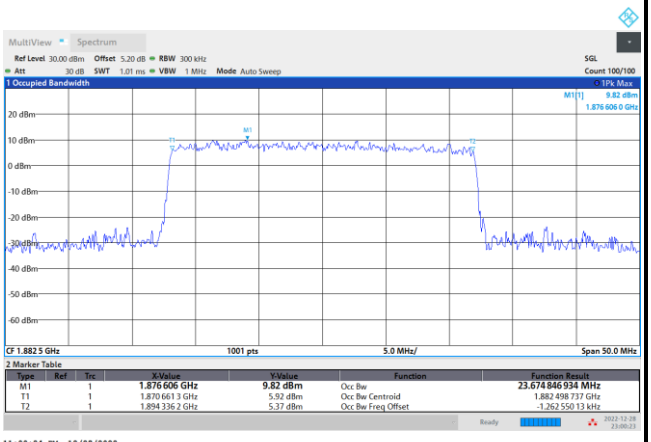
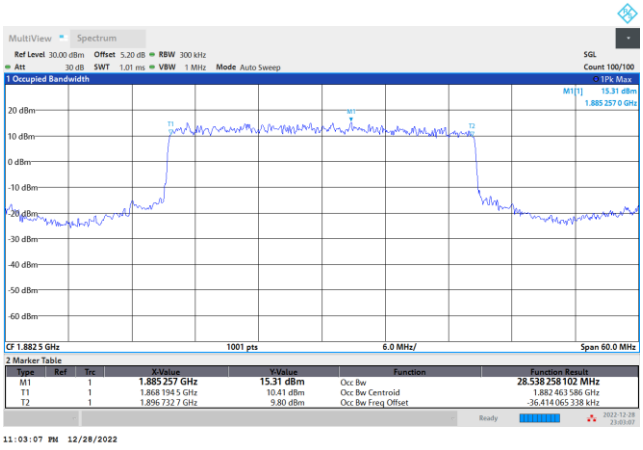


FR1 n25 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

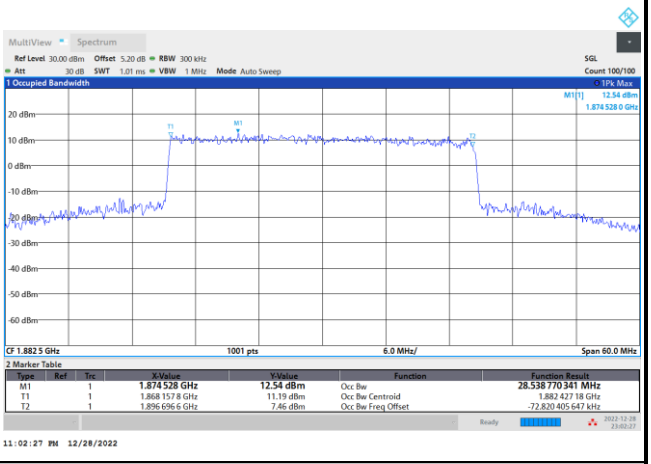
PI/2 BPSK



FR1 n25 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM



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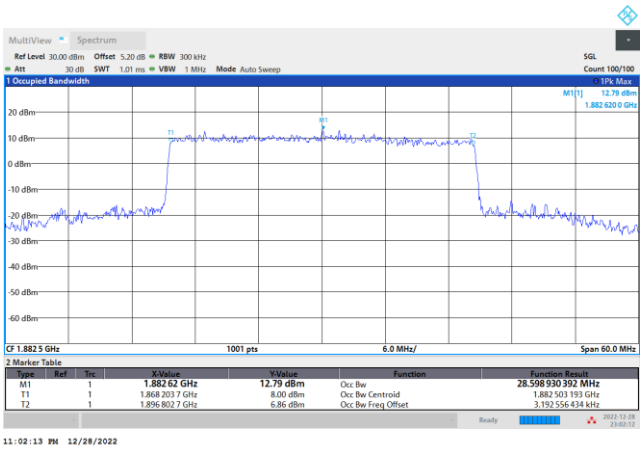
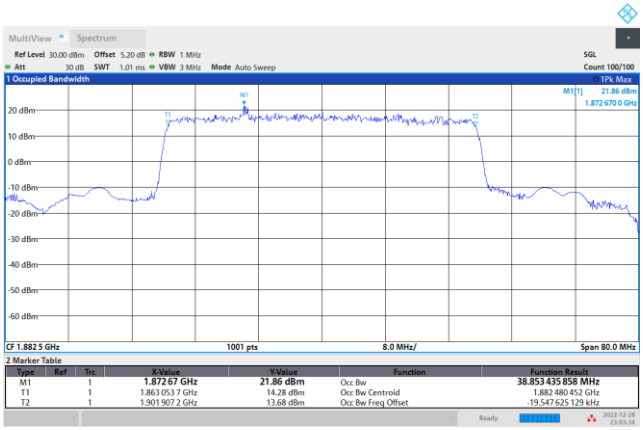


256QAM

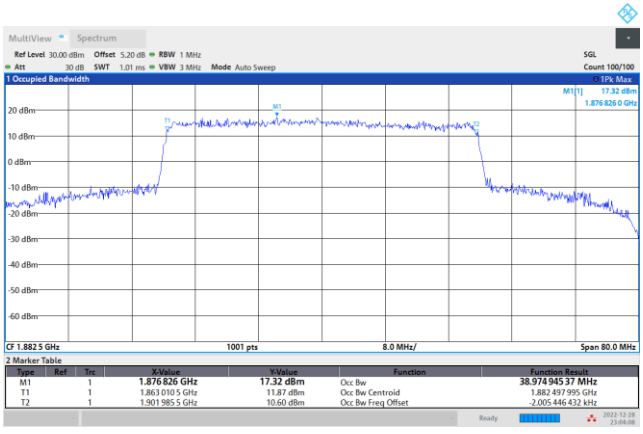
FR1 n25 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



FR1 n25 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



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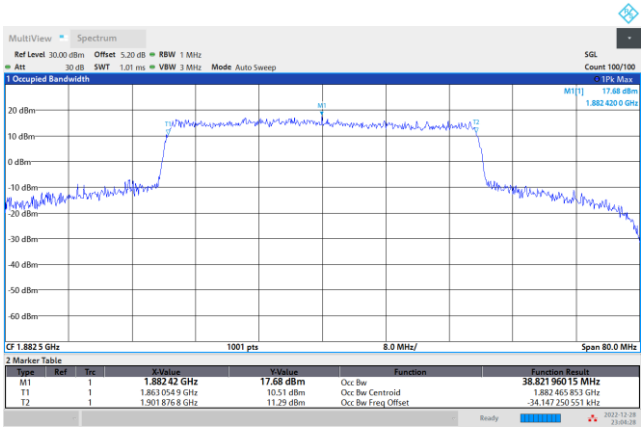

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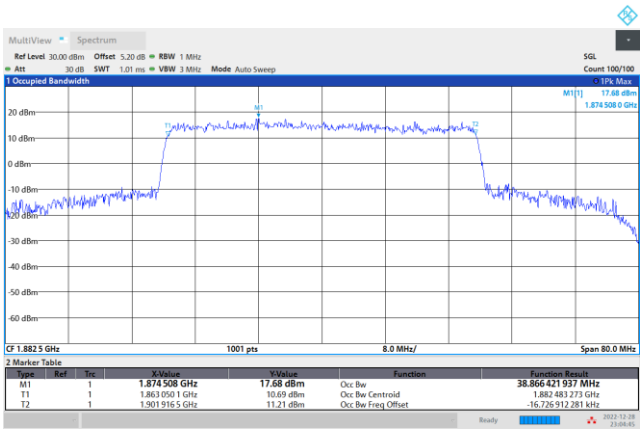

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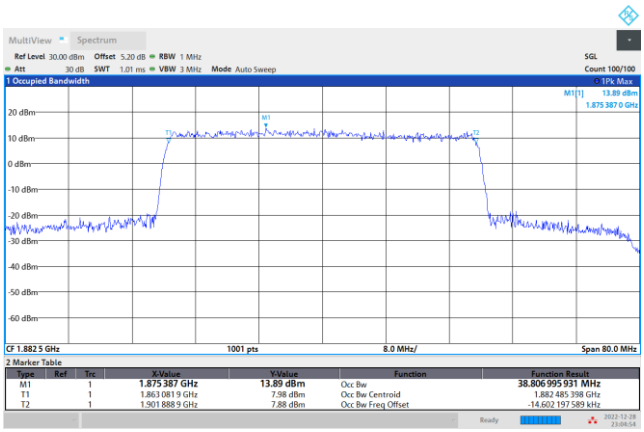
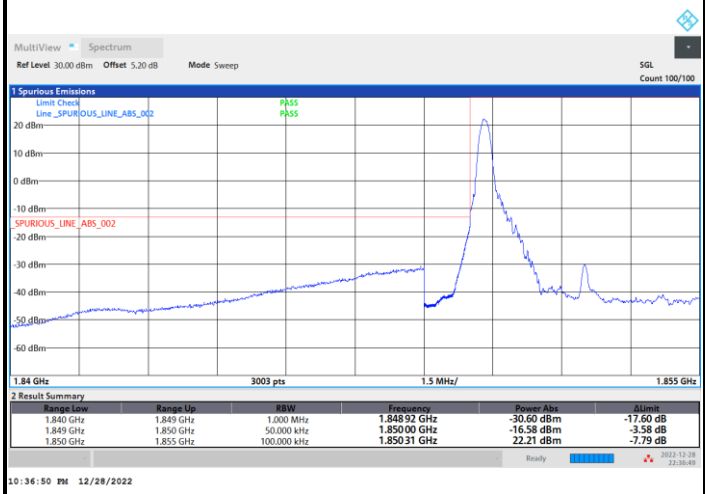


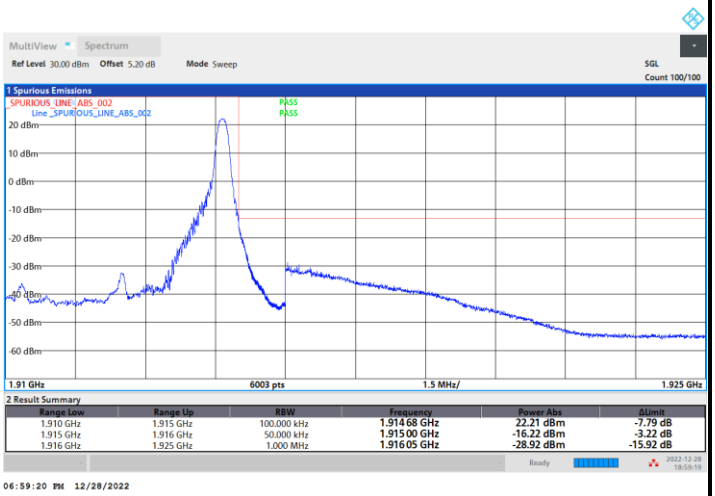
Conducted Band Edge

FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

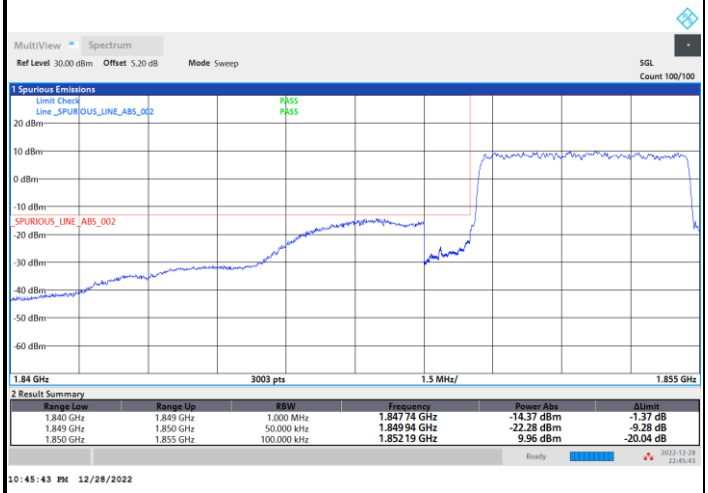
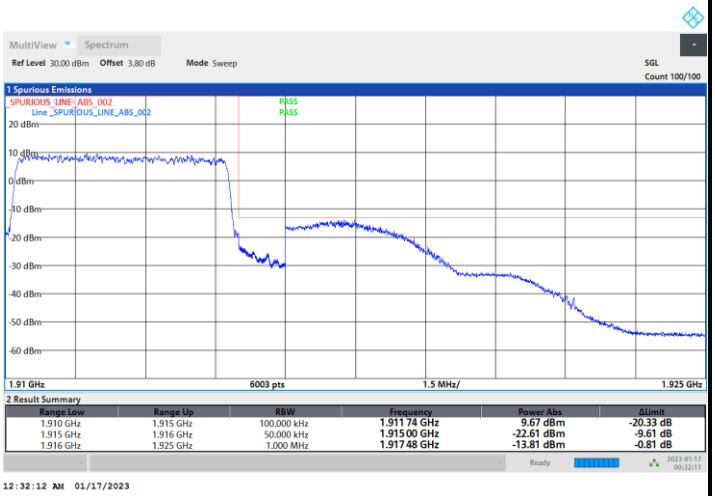
Lowest Band Edge / 1RB0



Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB