



FCC RADIO TEST REPORT

FCC ID : UZ7ET65AW
Equipment : Rugged 2 in 1 Android Tablet
Brand Name : ZEBRA
Model Name : ET65AW
Applicant : Zebra Technologies Corporation
 1 ZEBRA PLAZA, HOLTSVILLE, NY
 11742
Manufacturer : Zebra Technologies Corporation
 1 ZEBRA PLAZA, HOLTSVILLE, NY
 11742
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27

The product was received on Jul. 12, 2023 and testing was performed from Jul. 28, 2022 to Sep. 08, 2022. 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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Appendix A. Test Results of Conducted Test

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History of this test report

Report No.	Version	Description	Issue Date
FG371211C	01	Initial issue of report	Sep. 18, 2023
FG371211C	02	Revise Section 2.1 This report is an updated version, replacing the report issued on Sep. 18, 2023.	Sep. 22, 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	-
	§22.913 (a)(5)	Effective Radiated Power (n5) (n26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (n12) (n13) (n71)		
	§24.232 (c) §27.50 (h)(2)	Equivalent Isotropic Radiated Power (n2) (n25) (n7) (n38) (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 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n7) (n38) (n41)		
3.6	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h)	Conducted Spurious Emission (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n71)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n7) (n38) (n41)		
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h)	Radiated Spurious Emission (n2) (n5) (n12) (n13) (n25) (n26) (n66) (n71)	Pass	9.79 dB under the limit at 5137.00 MHz
	§2.1051 §27.53 (m)(4)	Radiated Spurious Emission (n7) (n38) (n41)		

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Ming Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Rugged 2 in 1 Android Tablet
Brand Name	Zebra
Model Name	ET65AW
FCC ID	UZ7ET65AW
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	DV2
SW Version	A13
MFD	21JUN23
EUT Stage	Identical Prototype

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

Specification of Accessories				
Adapter	Brand Name	Zebra	Part Number	PWR-BGA15V45W-UC2-WW
Battery 1	Brand Name	Zebra	Part Number	BT-000471-0020
Battery 2	Brand Name	Zebra	Part Number	BT-000471-0820

Supported Unit Used in Test Configuration and System				
USB TYPE C to 3.5mm audio connector	Brand Name	Zebra	Part Number	ADP-USBC-35MM1-01
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
USB TYPE C Earphone	Brand Name	Zebra	Part Number	HPST-USBC-PTT1-01
Headset Jumper	Brand Name	Zebra	Part Number	CBL-TC51-HDST35-01



1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	5G NR n2: 1852.5 MHz ~ 1907.5 MHz 5G NR n5: 826.5 MHz ~ 846.5 MHz 5G NR n7: 2502.5 MHz ~ 2567.5 MHz 5G NR n12: 701.5 MHz ~ 713.5 MHz 5G NR n13: 779.5 MHz ~ 784.5 MHz 5G NR n25: 1852.5 MHz ~ 1912.5 MHz 5G NR n26: 826.5 MHz ~ 846.5 MHz 5G NR n38: 2575 MHz ~ 2615 MHz 5G NR n41: 2501.01 MHz ~ 2685.00 MHz 5G NR n66: 1712.5 MHz ~ 1777.5 MHz 5G NR n71: 665.5 MHz ~ 695.5 MHz
Rx Frequency	5G NR n2: 1932.5 MHz ~ 1987.5 MHz 5G NR n5: 871.5 MHz ~ 891.5 MHz 5G NR n7: 2622.5 MHz ~ 2687.5 MHz 5G NR n12: 731.5 MHz ~ 743.5 MHz 5G NR n13: 748.5 MHz ~ 753.5 MHz 5G NR n25: 1932.5 MHz ~ 1992.5 MHz 5G NR n26: 861.5 MHz ~ 891.5 MHz 5G NR n38: 2575 MHz ~ 2615 MHz 5G NR n41: 2501.01 MHz ~ 2685.00 MHz 5G NR n66: 2112.5 MHz ~ 2197.5 MHz 5G NR n71: 619.5 MHz ~ 649.5 MHz
Bandwidth	5G NR n2: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n5: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n7: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n12: 5MHz / 10MHz / 15MHz 5G NR n13: 5MHz / 10MHz 5G NR n25: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n26: 5MHz / 10MHz / 15MHz / 20MHz 5G NR n38: 20MHz / 30MHz / 40MHz 5G NR n41: 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz 5G NR n66: 5MHz / 10MHz / 15MHz / 20MHz / 30MHz / 40MHz 5G NR n71: 5MHz / 10MHz / 15MHz / 20MHz



Product Specification is subject to this standard	
Maximum Output Power to Antenna	<SISO Mode> 5G NR n2 : 24.30 dBm 5G NR n5 : 24.23 dBm 5G NR n7 : 24.17 dBm 5G NR n12 : 24.17 dBm 5G NR n13 : 23.72 dBm 5G NR n25 : 24.58 dBm 5G NR n26 : 24.34 dBm 5G NR n38 : 24.50 dBm 5G NR n41 : 25.84 dBm for HPUE 5G NR n66 : 24.50 dBm 5G NR n71 : 24.50 dBm <MIMO Mode> 5G NR n41 : 25.82 dBm
Antenna Type	PIFA Antenna
Antenna Gain	<Ant. 1> 5G NR n2: 2.39 dBi 5G NR n5: 3.13 dBi 5G NR n12: 0.58 dBi 5G NR n13: -0.3 dBi 5G NR n25: 2.39 dBi 5G NR n26: -0.6 dBi 5G NR n66: 3.41 dBi 5G NR n71: -0.18 dBi <Ant. 2> 5G NR n41: 2.58 dBi <Ant. 3> 5G NR n7: 1.97 dBi 5G NR n38: 1.97 dBi 5G NR n41: 1.97 dBi <Ant. 5> 5G NR n41: 2.68 dBi <Ant. 6> 5G NR n41: 2.97 dBi
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Hank Chen and Luffy Lin
Temperature (°C)	23.5~24.1
Relative Humidity (%)	48~52

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jesse Fan, Tim Lee and Wilson Wu
Temperature (°C)	20~25
Relative Humidity (%)	50~60
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

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

FCC Designation No.: TW1190 and TW3786



1.5 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, 22(H), 24(E), 27
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ 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	n2	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n38	-	-	-	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
	n41	-	-	-	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	
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v	v	v	v	v	v	
Peak-to-Average Ratio	n2	Covered by 5G NR n25																								
	n5	Covered by 5G NR n26																								
	n7				v				-	-	-	-	-	-	v	v	v	v	v				v		v	
	n12			v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v				v		v	
	n13		v	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v				v		v	
	n25				v				-	-	-	-	-	-	v	v	v	v	v				v		v	
	n26				v	-	-	-	-	-	-	-	-	-	v	v	v	v	v				v		v	
	n38	-	-	-	v	-			-	-	-	-	-	-	v	v	v	v	v				v		v	
	n41	-	-	-	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	



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
26dB and 99% Bandwidth	n2	Covered by 5G NR n25																							
	n5	Covered by 5G NR n26																							
	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n38	-	-	-	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v			v		v	
	n41	-	-	-	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	
n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v			v		v		
Conducted Band Edge	n2	Covered by 5G NR n25																							
	n5	Covered by 5G NR n26																							
	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n38	-	-	-	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
	n41	-	-	-	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
	n66	v	v	v	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v
n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	v			v	v	v	

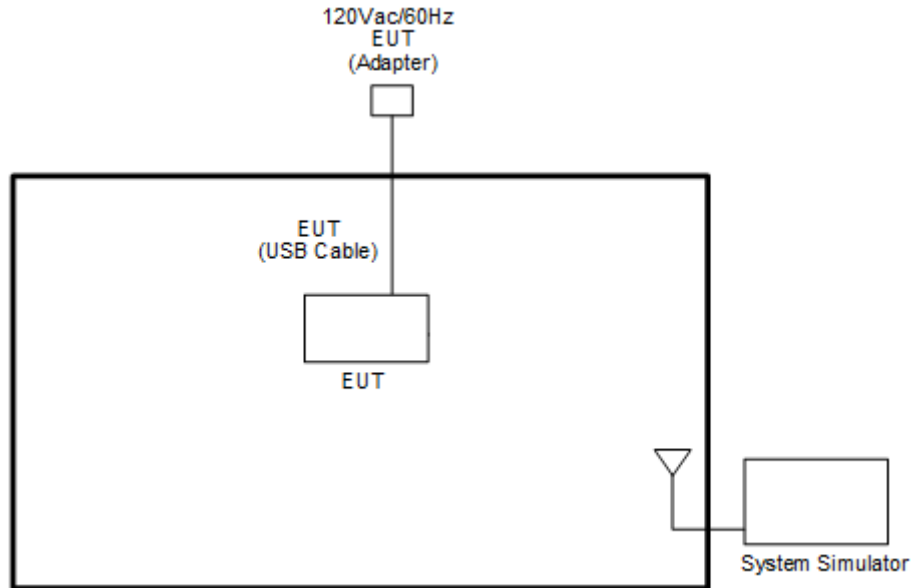


Test Items	NR Band	Bandwidth (MHz)													Modulation				RB #			Test Channel				
		5	10	15	20	25	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H	
Conducted Spurious Emission	n2	Covered by 5G NR n25																								
	n5	Covered by 5G NR n26																								
	n7	v							-	-	-	-	-	-			v				v			v	v	v
	n12	v			-	-	-	-	-	-	-	-	-	-			v				v			v	v	v
	n13	v		-	-	-	-	-	-	-	-	-	-	-			v				v			v	v	v
	n25	v							-	-	-	-	-	-			v				v			v	v	v
	n26	v				-	-	-	-	-	-	-	-	-			v				v			v	v	v
	n38	-	-	-	v	-			-	-	-	-	-	-			v				v			v	v	v
	n41	-	-	-	v	-											v				v			v	v	v
	n66	v				-			-	-	-	-	-	-			v				v			v	v	v
	n71	v				-	-	-	-	-	-	-	-	-			v				v			v	v	v
Frequency Stability	n2	Covered by 5G NR n25																								
	n5	Covered by 5G NR n26																								
	n7				v	-	-	-	-	-	-	-	-	-			v						v		v	
	n12			v	-	-	-	-	-	-	-	-	-	-			v						v		v	
	n13		v	-	-	-	-	-	-	-	-	-	-	-			v						v		v	
	n25				v				-	-	-	-	-	-			v						v		v	
	n26				v	-	-	-	-	-	-	-	-	-			v						v		v	
	n38	-	-	-	v	-			-	-	-	-	-	-			v						v		v	
	n41	-	-	-	v	-											v						v		v	
	n66				v	-			-	-	-	-	-	-			v						v		v	
	n71				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
E.R.P / E.I.R.P	n2	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v	Max Power					
	n5	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n7	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n12	v	v	v	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n13	v	v	-	-	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n25	v	v	v	v	v	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n26	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
	n38	-	-	-	v	-	v	v	-	-	-	-	-	-	v	v	v	v	v						
	n41	-	-	-	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						
	n71	v	v	v	v	-	-	-	-	-	-	-	-	-	v	v	v	v	v						
Radiated Spurious Emission	n2	Covered by 5G NR n25																	v	v	v				
	n5	Covered by 5G NR n26																	v	v	v				
	n7	Worst Case																	v	v	v				
	n12	Worst Case																	v	v	v				
	n13	Worst Case																	v	v	v				
	n25	Worst Case																	v	v	v				
	n26	Worst Case																	v	v	v				
	n38	Worst Case																	v	v	v				
	n41	Covered by 5G NR n41																	v	v	v				
	n66	Worst Case																	v	v	v				
	n71	Worst Case																	v	v	v				
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. Test combination are EN-DC 2A-n12A, EN-DC 5A-n38A, EN-DC 5A-n66A, EN-DC 5A-n7A,2 EN-DC 6A-n41A, EN-DC 26A-n25A, EN-DC 7A-n5A, EN-DC 7A-n66A, EN-DC 7A-n71A and EN-DC 66A-n25A 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.. Wider operating range bandwidth covers narrower one when the power is higher or the same. One representative bandwidth is selected to perform PAR and frequency stability. 5G NR n2.n25.n66 support Antenna 1(SA Mode) & Antenna 4(NSA Mode), for Radiated Spurious Emission is full test,in Conducted test ietms are verified ,the worst case is Antenna 1. Therefore, only performed the Antenna 1 test results in this report. 5G NR n41 SISO Mode support Antenna 3(SA Mode) & Antenna 2&5&6(SRS Mode) for Radiated Spurious Emission is full test,in Conducted test ietms are verified ,the worst case is Antenna 3. Therefore, only performed the Antenna 3 test results 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.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

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

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

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

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



5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5



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

5G NR n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	156400	-
	Frequency	-	782	-
5	Channel	155900	156400	156900
	Frequency	779.5	782	784.5

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 n26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	166800	167300	167800
	Frequency	834	836.5	839
15	Channel	166300	167300	168300
	Frequency	831.5	836.5	841.5
10	Channel	165800	167300	168800
	Frequency	829	836.5	844
5	Channel	165300	167300	169300
	Frequency	826.5	836.5	846.5

5G NR n38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	518000	519000	520000
	Frequency	2590	2595	2600
30	Channel	517000	519000	521000
	Frequency	2585	2595	2605
20	Channel	516000	519000	522000
	Frequency	2580	2595	2610



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	535998
	Frequency	2501.01	2592.99	2679.99



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

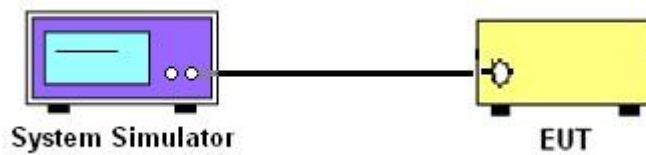
3 Conducted Test Items

3.1 Measuring Instruments

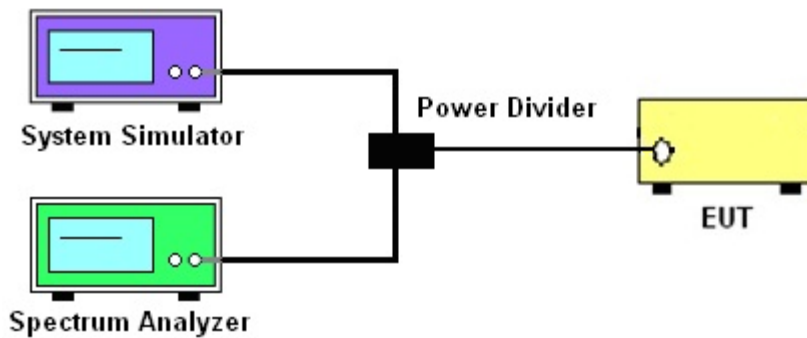
See list of measuring instruments of this test report.

3.1.1 Test Setup

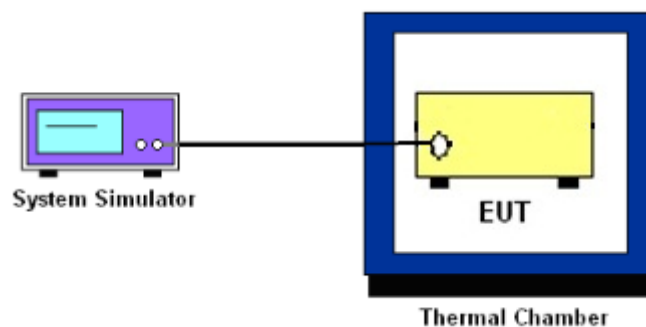
3.1.2 Conducted Output Power



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 7 Watts for 5G NR n5 and n26

The ERP of mobile transmitters must not exceed 3 Watts for 5G NR n12 and n13 and n71

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n2 and n25 and n7 and n38 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

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

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

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

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

27.53 (h)

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

**27.53(m)(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 \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.

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

For 5G NR n7, n38, n41

The other 40 dB, and 55 dB have additionally applied same calculation above.



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 n7, n38, 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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
For 5G NR n7, n38, n41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

22.355

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

24.235 & 27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

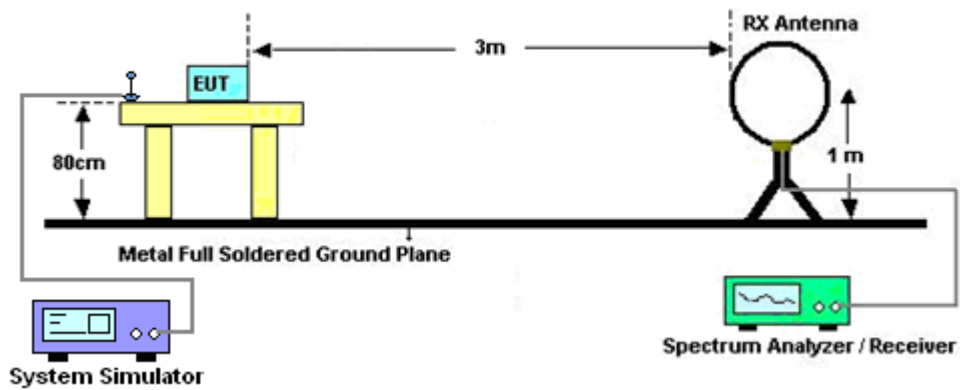
4 Radiated Test Items

4.1 Measuring Instruments

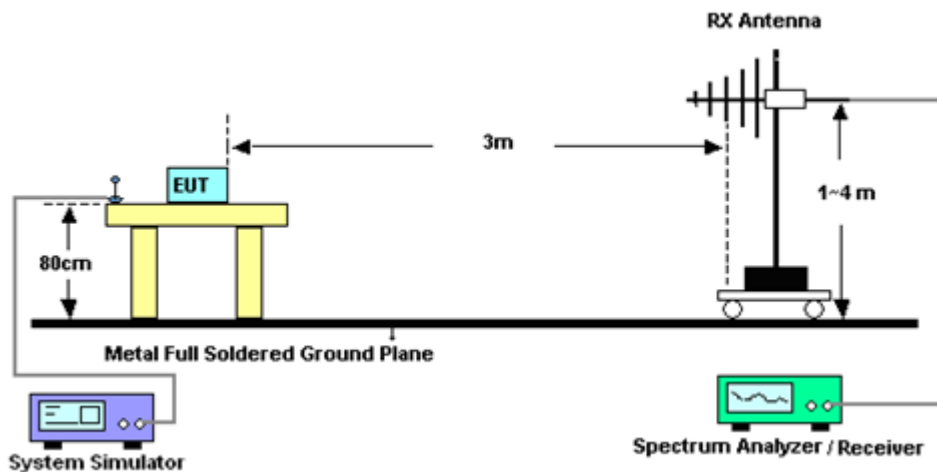
See list of measuring instruments of this test report.

4.1.1 Test Setup

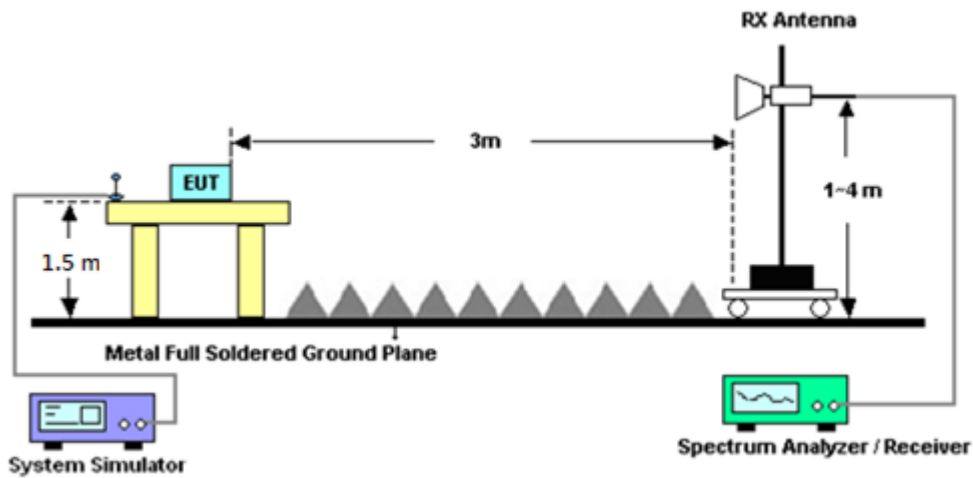
For radiated test below 30MHz



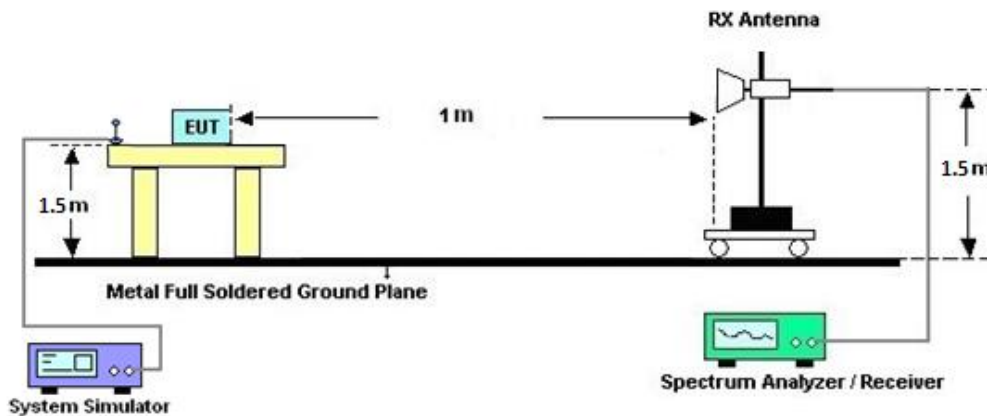
For radiated test from 30MHz to 1GHz



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.

For 5G NR n7, n38, n41

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.

For 5G NR n13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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

4.2.2 Test Procedures

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

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

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

For 5G NR n7, n38, n41

The limit line is derived from $55 + 10\log(P)$ 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Jul. 22, 2023~ Aug. 10, 2023	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Jul. 22, 2023~ Aug. 10, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1328	1GHz~18GHz	Dec. 15, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 14, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 30, 2023	Jul. 22, 2023~ Aug. 10, 2023	Jun. 29, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Jul. 22, 2023~ Aug. 10, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00994	18GHz~40GHz	Nov. 04, 2022	Jul. 22, 2023~ Aug. 10, 2023	Nov. 03, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Jul. 22, 2023~ Aug. 10, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Jul. 22, 2023~ Aug. 10, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Jul. 22, 2023~ Aug. 10, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080 -1200-15000-6 0SS	SN1	1.2GHz High Pass Filter	Mar. 14, 2023	Jul. 22, 2023~ Aug. 10, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Jul. 22, 2023~ Aug. 10, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Jul. 22, 2023~ Aug. 10, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Jul. 22, 2023~ Aug. 10, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Jul. 22, 2023~ Aug. 10, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 22, 2023~ Aug. 10, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 22, 2023~ Aug. 10, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jul. 22, 2023~ Aug. 10, 2023	N/A	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Jan. 11, 2023	Jul. 22, 2023~ Aug. 10, 2023	Jan. 10, 2024	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 28, 2023	Jul. 28, 2023~ Sep. 08, 2023	Mar. 27, 2024	Conducted (TH03-HY)
Radio Communication Test Station	Anritsu	MT8000A	6272337370	N/A	Oct. 28, 2022	Jul. 28, 2023~ Sep. 08, 2023	Oct. 27, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116725	LTE FDD/TDD LTE-3CC DLCA/2CC ULCA	Oct. 13, 2022	Jul. 28, 2023~ Sep. 08, 2023	Oct. 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% ($U = 2Uc(y)$)	3.07 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.63 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.14 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n2 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	24.26	24.07	23.96	26.65	0.4624
5	1	23		24.16	23.99	23.84		
5	12	6		24.16	24.03	23.89		
5	1	0		23.75	23.50	23.45		
5	1	24		23.67	23.53	23.37		
5	25	0		23.74	23.54	23.43		
5	1	1	QPSK	24.13	24.11	23.97		
5	1	23		24.02	23.97	23.87		
5	12	6		24.19	24.04	23.91		
5	1	0		23.27	23.12	22.96		
5	1	24		23.13	23.00	22.92		
5	25	0		23.25	23.04	22.99		
5	1	1	16-QAM	23.06	23.06	22.85	25.45	0.3508
5	1	1	64-QAM	21.82	21.76	21.67		
5	1	1	256-QAM	19.28	19.11	19.01		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.25	24.15	23.99	26.67	0.4645
10	1	50		24.08	23.97	23.92		
10	25	12		24.28	24.09	23.98		
10	1	0		23.86	23.65	23.55		
10	1	51		23.70	23.50	23.38		
10	50	0		23.76	23.56	23.46		
10	1	1	QPSK	24.21	24.13	24.07		
10	1	50		24.16	24.01	23.96		
10	25	12		24.20	24.08	24.00		
10	1	0		23.29	23.13	23.04		
10	1	51		23.14	23.01	22.98		
10	50	0		23.18	23.06	23.03		
10	1	1	16-QAM	23.16	23.09	22.98	25.55	0.3589
10	1	1	64-QAM	21.97	21.78	21.67		
10	1	1	256-QAM	19.29	19.07	19.03		
Limit	EIRP < 2W			Result			Pass	



NR n2 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	24.23	24.08	23.97	26.69	0.4667
15	1	77		24.14	24.00	23.91		
15	36	18		24.13	24.10	23.96		
15	1	0		23.70	23.55	23.45		
15	1	78		23.66	23.53	23.42		
15	75	0		23.66	23.56	23.43		
15	1	1	QPSK	24.30	24.13	23.99		
15	1	77		24.18	24.08	23.95		
15	36	18		24.14	24.12	23.93		
15	1	0		23.24	23.00	22.97		
15	1	78		23.19	23.00	22.92		
15	75	0		23.19	23.10	22.95		
15	1	1	16-QAM	23.17	23.05	22.92	25.56	0.3597
15	1	1	64-QAM	21.92	21.74	21.66		
15	1	1	256-QAM	19.24	19.16	19.00		
Limit	EIRP < 2W			Result			Pass	

NR n2 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	24.19	24.07	23.99	26.59	0.456
20	1	104		24.09	24.03	23.87		
20	50	25		24.16	24.07	23.95		
20	1	0		23.61	23.62	23.43		
20	1	105		23.51	23.47	23.34		
20	100	0		23.66	23.60	23.49		
20	1	1	QPSK	24.20	24.14	24.00		
20	1	104		24.10	23.96	23.91		
20	50	25		24.20	24.09	23.98		
20	1	0		23.22	23.10	22.96		
20	1	105		23.13	23.01	22.94		
20	100	0		23.22	23.11	23.02		
20	1	1	16-QAM	23.16	23.10	22.85	25.55	0.3589
20	1	1	64-QAM	21.84	21.73	21.63		
20	1	1	256-QAM	19.24	19.18	18.97		
Limit	EIRP < 2W			Result			Pass	



NR n5 Maximum Average Power [dBm] (GT - LC = 3.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	24.18	24.12	24.04	25.16	0.3281
5	1	23		24.16	24.05	23.32		
5	12	6		24.18	24.05	23.81		
5	1	0		23.70	23.59	23.50		
5	1	24		23.62	23.57	22.79		
5	25	0		23.70	23.56	23.35		
5	1	1	QPSK	23.49	23.76	23.28		
5	1	23		23.68	23.49	22.39		
5	12	6		23.48	23.55	22.87		
5	1	0		22.60	22.82	22.33		
5	1	24		22.74	22.61	21.38		
5	25	0		22.59	22.66	21.92		
5	1	1	16-QAM	22.50	22.80	22.30	23.78	0.2388
5	1	1	64-QAM	21.22	21.56	21.01		
5	1	1	256-QAM	19.15	19.11	18.88		
Limit	ERP < 7W			Result			Pass	

NR n5 Maximum Average Power [dBm] (GT - LC = 3.13 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	24.17	24.06	23.97	25.15	0.3273
10	1	50		24.06	23.98	23.28		
10	25	12		24.14	24.05	23.96		
10	1	0		23.66	23.56	23.46		
10	1	51		23.50	23.47	22.76		
10	50	0		23.62	23.59	23.46		
10	1	1	QPSK	23.33	23.58	23.40		
10	1	50		23.50	23.44	22.36		
10	25	12		23.64	23.65	23.28		
10	1	0		22.39	22.64	22.49		
10	1	51		22.54	22.50	21.34		
10	50	0		22.63	22.68	22.16		
10	1	1	16-QAM	22.31	22.57	22.44	23.55	0.2265
10	1	1	64-QAM	21.05	21.31	21.11		
10	1	1	256-QAM	18.97	19.13	18.95		
Limit	ERP < 7W			Result			Pass	



NR n5 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	24.23	24.17	24.05	25.21	0.3319		
15	1	77		23.98	24.04	23.45				
15	36	18		23.99	24.10	23.92				
15	1	0		23.66	23.69	23.51				
15	1	78		23.52	23.50	22.99				
15	75	0		23.60	23.59	23.46				
15	1	1	QPSK	23.27	23.78	23.72			23.77	0.2382
15	1	77		23.51	23.37	22.48				
15	36	18		23.60	23.53	23.50				
15	1	0		22.37	22.82	22.79				
15	1	78		22.54	22.42	21.47				
15	75	0		22.62	22.69	22.42				
15	1	1	16-QAM	22.31	22.79	22.73	23.77	0.2382		
15	1	1	64-QAM	21.02	21.50	21.47				
15	1	1	256-QAM	19.00	19.19	19.14				
Limit	ERP < 7W			Result			Pass			

NR n5 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	24.17	24.12	24.09	25.15	0.3273		
20	1	104		23.90	23.80	23.42				
20	50	25		24.07	24.13	24.02				
20	1	0		23.61	23.64	23.65				
20	1	105		23.47	23.32	22.93				
20	100	0		23.61	23.62	23.55				
20	1	1	QPSK	23.24	23.55	23.79			23.75	0.2371
20	1	104		23.42	22.85	22.46				
20	50	25		23.47	23.55	23.50				
20	1	0		22.34	22.60	22.83				
20	1	105		22.48	21.90	21.46				
20	100	0		22.34	22.37	22.36				
20	1	1	16-QAM	22.26	22.57	22.77	23.75	0.2371		
20	1	1	64-QAM	21.00	21.31	21.51				
20	1	1	256-QAM	18.39	18.66	18.89				
Limit	ERP < 7W			Result			Pass			



NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	23.11	23.23	23.58	25.64	0.3664
5	1	23		23.17	23.27	23.61		
5	12	6		23.16	23.31	23.60		
5	1	0		22.66	22.72	23.08		
5	1	24		22.68	22.81	23.12		
5	25	0		22.71	22.76	23.16		
5	1	1	QPSK	23.10	23.21	23.64		
5	1	23		23.15	23.38	23.67		
5	12	6		23.12	23.32	23.57		
5	1	0		22.12	22.16	22.62		
5	1	24		22.15	22.35	22.62		
5	25	0		22.10	22.32	22.57		
5	1	1	16-QAM	21.91	22.15	22.55	24.52	0.2831
5	1	1	64-QAM	20.76	20.92	21.27		
5	1	1	256-QAM	18.03	18.13	18.56		
Limit	EIRP < 2W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	23.14	23.35	23.65	25.74	0.375
10	1	50		23.22	23.42	23.77		
10	25	12		23.19	23.36	23.76		
10	1	0		22.64	22.20	23.18		
10	1	51		22.68	22.95	23.22		
10	50	0		22.61	22.85	23.19		
10	1	1	QPSK	23.12	23.34	23.76		
10	1	50		23.16	23.49	23.73		
10	25	12		23.16	23.38	23.71		
10	1	0		22.12	22.36	22.70		
10	1	51		22.14	22.51	22.72		
10	50	0		22.11	22.38	22.71		
10	1	1	16-QAM	21.95	22.24	22.68	24.65	0.2917
10	1	1	64-QAM	20.75	20.92	21.22		
10	1	1	256-QAM	18.02	18.31	18.60		
Limit	EIRP < 2W			Result			Pass	



NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	23.10	23.25	23.60	25.77	0.3776
15	1	77		23.17	23.48	23.71		
15	36	18		23.10	23.51	23.69		
15	1	0		22.64	22.81	23.08		
15	1	78		22.67	22.97	23.17		
15	75	0		22.65	23.05	23.80		
15	1	1	QPSK	23.12	23.32	23.54		
15	1	77		23.24	23.47	23.71		
15	36	18		23.11	23.49	23.75		
15	1	0		22.02	22.33	22.52		
15	1	78		22.18	22.40	22.69		
15	75	0		22.16	22.45	22.68		
15	1	1	16-QAM	21.97	22.16	22.38	24.35	0.2723
15	1	1	64-QAM	20.68	20.85	21.05		
15	1	1	256-QAM	18.15	18.27	18.46		
Limit	EIRP < 2W			Result			Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	23.14	23.35	23.56	25.78	0.3784
20	1	104		23.38	23.48	23.71		
20	50	25		23.29	23.51	23.81		
20	1	0		22.66	22.82	23.04		
20	1	105		22.87	23.01	23.20		
20	100	0		22.85	23.10	23.19		
20	1	1	QPSK	23.21	23.35	23.67		
20	1	104		23.33	23.54	23.76		
20	50	25		23.27	23.43	23.78		
20	1	0		22.12	22.33	22.63		
20	1	105		22.38	22.51	22.75		
20	100	0		22.27	22.48	22.78		
20	1	1	16-QAM	22.03	22.25	22.55	24.52	0.2831
20	1	1	64-QAM	20.52	20.98	21.35		
20	1	1	256-QAM	18.15	18.35	18.67		
Limit	EIRP < 2W			Result			Pass	



NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
25	1	1	PI/2 BPSK	23.47	23.59	23.82	26.03	0.4009		
25	1	131		23.64	23.83	24.04				
25	64	32		23.41	23.67	23.97				
25	1	0		23.00	23.14	23..31				
25	1	132		23.17	23.42	23.46				
25	128	0		22.88	23.19	23.42				
25	1	1	QPSK	23.48	23.56	23.84			24.76	0.2992
25	1	131		23.71	23.91	24.06				
25	64	32		23.43	23.67	23.89				
25	1	0		22.47	22.54	22.89				
25	1	132		22.63	22.88	23.06				
25	128	0		22.41	22.62	22.90				
25	1	1	16-QAM	22.41	22.45	22.79	24.76	0.2992		
25	1	1	64-QAM	21.19	21.08	21.45				
25	1	1	256-QAM	18.51	18.52	18.77				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	23.51	23.59	23.83	26.11	0.4083		
30	1	158		23.68	23.83	24.09				
30	80	40		23.49	23.74	24.02				
30	1	0		22.98	23.07	23.34				
30	1	159		23.24	23.37	23.61				
30	160	0		22.98	23.22	23.54				
30	1	1	QPSK	23.47	23.68	23.89			24.73	0.2972
30	1	158		23.67	23.96	24.14				
30	80	40		23.51	23.75	24.04				
30	1	0		22.41	22.51	22.92				
30	1	159		22.71	22.91	23.12				
30	160	0		22.46	22.74	22.97				
30	1	1	16-QAM	22.38	22.42	22.76	24.73	0.2972		
30	1	1	64-QAM	21.06	21.23	21.56				
30	1	1	256-QAM	18.38	18.61	18.85				
Limit	EIRP < 2W			Result			Pass			



NR n7 Maximum Average Power [dBm] (GT - LC = 1.97 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	23.54	23.46	23.81	26.14	0.4111		
40	1	214		23.82	24.07	24.15				
40	108	54		23.60	23.78	24.02				
40	1	0		23.03	23.09	23.23				
40	1	215		23.35	23.56	23.70				
40	216	0		23.70	23.30	23.51				
40	1	1	QPSK	23.50	23.53	23.84			26.14	0.4111
40	1	214		23.85	24.12	24.17				
40	108	54		23.64	23.82	23.99				
40	1	0		22.53	22.51	22.78				
40	1	215		22.92	23.09	23.17				
40	216	0		22.63	22.81	23.01				
40	1	1	16-QAM	22.41	22.46	22.69	24.66	0.2924		
40	1	1	64-QAM	21.12	21.08	21.46				
40	1	1	256-QAM	18.51	18.56	18.81				
Limit	EIRP < 2W			Result			Pass			



NR n12 Maximum Average Power [dBm] (GT - LC = 0.58 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	24.16	24.08	24.03	22.59	0.1816		
5	1	23		24.07	24.09	24.00				
5	12	6		24.09	24.01	24.06				
5	1	0		23.54	23.48	23.52				
5	1	24		23.52	23.57	23.50				
5	25	0		23.55	23.51	23.50				
5	1	1	QPSK	24.11	24.04	24.01			21.48	0.1406
5	1	23		24.06	24.04	24.01				
5	12	6		23.96	24.01	24.01				
5	1	0		23.10	23.09	23.02				
5	1	24		23.12	23.13	23.00				
5	25	0		23.11	22.98	22.97				
5	1	1	16-QAM	23.05	23.00	23.05	21.48	0.1406		
5	1	1	64-QAM	21.73	21.66	21.63				
5	1	1	256-QAM	19.07	19.07	19.02				
Limit	ERP < 3W			Result			Pass			

NR n12 Maximum Average Power [dBm] (GT - LC = 0.58 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	24.14	24.11	24.03	22.6	0.182		
10	1	50		24.05	24.05	23.93				
10	25	12		24.05	24.10	24.06				
10	1	0		23.58	23.64	23.53				
10	1	51		23.53	23.51	23.41				
10	50	0		23.50	23.56	23.55				
10	1	1	QPSK	24.17	24.09	24.01			21.53	0.1422
10	1	50		24.06	24.07	23.92				
10	25	12		24.11	24.08	24.04				
10	1	0		23.12	23.05	23.03				
10	1	51		23.04	23.09	23.01				
10	50	0		23.09	23.04	22.95				
10	1	1	16-QAM	23.10	23.06	23.01	21.53	0.1422		
10	1	1	64-QAM	21.74	21.72	21.70				
10	1	1	256-QAM	19.02	19.04	18.97				
Limit	ERP < 3W			Result			Pass			



NR n12 Maximum Average Power [dBm] (GT - LC = 0.58 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	24.17	24.13	24.12	22.6	0.182		
15	1	77		23.97	23.97	23.94				
15	36	18		24.10	24.06	24.05				
15	1	0		23.63	23.65	23.58				
15	1	78		23.41	23.45	23.40				
15	75	0		23.55	23.60	23.56				
15	1	1	QPSK	24.15	24.10	24.04			21.55	0.1429
15	1	77		24.01	23.96	23.97				
15	36	18		24.07	24.05	24.07				
15	1	0		23.08	23.16	23.04				
15	1	78		22.99	22.95	22.88				
15	75	0		23.11	23.07	23.06				
15	1	1	16-QAM	23.07	23.12	23.05	21.55	0.1429		
15	1	1	64-QAM	21.80	21.74	21.82				
15	1	1	256-QAM	19.13	19.17	19.13				
Limit	ERP < 3W			Result			Pass			



NR n13 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	23.72	23.63	23.67	21.27	0.134
5	1	23		23.65	23.61	23.58		
5	12	6		23.66	23.65	23.64		
5	1	0		23.22	23.07	23.15		
5	1	24		23.21	23.07	23.11		
5	25	0		23.23	23.15	23.17		
5	1	1	QPSK	23.11	23.64	23.72		
5	1	23		23.69	23.63	23.61		
5	12	6		23.68	23.72	23.67		
5	1	0		22.00	22.66	22.70		
5	1	24		22.66	22.69	22.60		
5	25	0		22.71	22.67	22.61		
5	1	1	16-QAM	22.11	22.63	22.62	20.18	0.1042
5	1	1	64-QAM	20.82	21.32	21.33		
5	1	1	256-QAM	18.73	18.61	18.60		
Limit	ERP < 3W			Result			Pass	

NR n13 Maximum Average Power [dBm] (GT - LC = -0.3 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	-	23.71	-	21.26	0.1337
10	1	50		-	23.60	-		
10	25	12		-	23.67	-		
10	1	0		-	23.29	-		
10	1	51		-	23.12	-		
10	50	0		-	23.25	-		
10	1	1	QPSK	-	23.21	-		
10	1	50		-	23.62	-		
10	25	12		-	23.67	-		
10	1	0		-	22.10	-		
10	1	51		-	22.69	-		
10	50	0		-	22.77	-		
10	1	1	16-QAM	-	22.20	-	19.75	0.0944
10	1	1	64-QAM	-	20.91	-		
10	1	1	256-QAM	-	18.69	-		
Limit	ERP < 3W			Result			Pass	



NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
5	1	1	PI/2 BPSK	24.35	24.12	24.10	26.77	0.4753
5	1	23		24.38	24.15	24.10		
5	12	6		24.31	24.01	24.06		
5	1	0		23.87	23.78	23.58		
5	1	24		23.79	23.73	23.55		
5	25	0		23.83	23.60	23.65		
5	1	1	QPSK	24.38	24.17	24.11		
5	1	23		24.37	24.10	24.06		
5	12	6		24.24	24.04	24.02		
5	1	0		23.41	23.16	23.10		
5	1	24		23.34	23.14	23.11		
5	25	0		23.36	23.12	23.13		
5	1	1	16-QAM	23.41	23.09	23.03	25.8	0.3802
5	1	1	64-QAM	22.06	21.80	21.72		
5	1	1	256-QAM	19.41	19.25	19.11		
Limit	EIRP < 2W			Result			Pass	

NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	24.38	24.07	24.18	26.78	0.4764
10	1	50		24.25	24.13	24.05		
10	25	12		24.39	24.16	24.13		
10	1	0		23.85	23.62	23.60		
10	1	51		23.73	23.63	23.62		
10	50	0		23.82	23.57	23.74		
10	1	1	QPSK	24.35	24.09	24.05		
10	1	50		24.34	24.16	24.08		
10	25	12		24.29	24.10	24.10		
10	1	0		23.34	23.06	23.10		
10	1	51		23.29	23.12	23.04		
10	50	0		23.36	23.09	23.07		
10	1	1	16-QAM	23.25	23.06	23.05	25.64	0.3664
10	1	1	64-QAM	22.04	21.74	21.76		
10	1	1	256-QAM	19.37	19.06	19.03		
Limit	EIRP < 2W			Result			Pass	



NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	24.31	24.21	24.09	26.72	0.4699		
15	1	77		24.25	24.07	24.02				
15	36	18		24.23	24.10	24.10				
15	1	0		23.80	23.66	23.57				
15	1	78		23.68	23.57	23.55				
15	75	0		23.75	23.61	23.60				
15	1	1	QPSK	24.33	24.21	24.09			25.64	0.3664
15	1	77		24.20	24.13	24.03				
15	36	18		24.23	24.13	24.12				
15	1	0		23.36	23.23	23.10				
15	1	78		23.20	23.10	23.06				
15	75	0		23.30	23.11	23.12				
15	1	1	16-QAM	23.25	23.14	23.10	25.64	0.3664		
15	1	1	64-QAM	22.06	21.90	21.77				
15	1	1	256-QAM	19.32	19.16	19.08				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	24.21	24.15	24.12	26.67	0.4645		
20	1	104		24.12	24.06	24.00				
20	50	25		24.28	24.16	24.13				
20	1	0		23.75	23.69	23.54				
20	1	105		23.65	23.50	23.47				
20	100	0		23.80	23.67	23.64				
20	1	1	QPSK	24.25	24.15	24.16			25.58	0.3614
20	1	104		24.15	24.05	24.10				
20	50	25		24.27	24.19	24.13				
20	1	0		23.34	23.21	23.15				
20	1	105		23.18	23.04	23.06				
20	100	0		23.28	23.15	23.19				
20	1	1	16-QAM	23.19	23.19	23.10	25.58	0.3614		
20	1	1	64-QAM	21.96	21.83	21.70				
20	1	1	256-QAM	19.37	19.18	19.17				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
25	1	1	PI/2 BPSK	24.50	24.50	24.40	26.89	0.4887		
25	1	131		24.45	24.49	24.40				
25	64	32		24.50	24.38	24.50				
25	1	0		24.18	24.00	23.89				
25	1	132		24.01	23.98	23.92				
25	128	0		24.11	23.81	23.95				
25	1	1	QPSK	24.48	24.50	24.48			26.04	0.4018
25	1	131		24.43	24.43	24.44				
25	64	32		24.49	24.42	24.46				
25	1	0		23.70	23.52	23.41				
25	1	132		23.52	23.57	23.49				
25	128	0		23.61	23.42	23.42				
25	1	1	16-QAM	23.65	23.50	23.35	26.04	0.4018		
25	1	1	64-QAM	22.40	22.10	23.28				
25	1	1	256-QAM	19.64	19.60	19.43				
Limit	EIRP < 2W			Result			Pass			

NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	24.48	24.47	24.27	26.88	0.4875		
30	1	158		24.40	24.43	24.33				
30	80	40		24.48	24.31	24.37				
30	1	0		24.18	24.01	23.75				
30	1	159		23.94	23.91	23.80				
30	160	0		24.13	23.99	23.93				
30	1	1	QPSK	24.49	24.41	24.32			26	0.3981
30	1	158		24.43	24.46	24.35				
30	80	40		24.45	24.38	24.41				
30	1	0		23.65	23.52	23.29				
30	1	159		23.48	23.46	23.35				
30	160	0		23.51	23.52	23.42				
30	1	1	16-QAM	23.61	23.51	23.24	26	0.3981		
30	1	1	64-QAM	22.38	22.14	21.92				
30	1	1	256-QAM	19.67	19.51	19.32				
Limit	EIRP < 2W			Result			Pass			



NR n25 Maximum Average Power [dBm] (GT - LC = 2.39 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.58	24.48	24.37	26.97	0.4977
40	1	214		24.35	24.34	24.36		
40	108	54		24.45	24.32	24.46		
40	1	0		24.11	24.05	23.79		
40	1	215		23.88	23.87	23.90		
40	216	0		24.01	23.99	23.94		
40	1	1	QPSK	24.49	24.50	24.35		
40	1	214		24.33	24.43	24.35		
40	108	54		24.43	24.38	24.46		
40	1	0		23.65	23.56	23.36		
40	1	215		23.38	23.42	23.40		
40	216	0		23.45	23.50	23.42		
40	1	1	16-QAM	23.56	23.43	23.31	25.95	0.3936
40	1	1	64-QAM	22.34	22.15	22.00		
40	1	1	256-QAM	19.66	20.20	19.35		
Limit	EIRP < 2W			Result			Pass	



NR n26 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	24.17	24.31	24.25	25.31	0.3396		
5	1	23		24.17	24.24	24.24				
5	12	6		24.23	24.30	24.30				
5	1	0		23.62	23.80	23.75				
5	1	24		23.67	23.78	23.73				
5	25	0		23.73	23.80	23.82				
5	1	1	QPSK	24.12	24.33	24.29			24.3	0.2692
5	1	23		24.18	24.27	24.05				
5	12	6		24.23	24.31	24.29				
5	1	0		23.16	23.33	23.34				
5	1	24		23.14	23.33	23.05				
5	25	0		23.24	23.33	23.25				
5	1	1	16-QAM	23.11	23.32	23.31	24.3	0.2692		
5	1	1	64-QAM	21.77	21.96	21.96				
5	1	1	256-QAM	19.11	19.34	19.32				
Limit	ERP < 7W			Result			Pass			

NR n26 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	24.20	24.30	24.23	25.32	0.3404		
10	1	50		24.26	24.25	24.24				
10	25	12		24.22	24.30	24.21				
10	1	0		23.64	23.84	23.72				
10	1	51		23.73	23.75	23.73				
10	50	0		23.73	23.81	23.70				
10	1	1	QPSK	24.19	24.34	24.18			24.23	0.2649
10	1	50		24.13	24.21	24.05				
10	25	12		24.26	24.34	24.19				
10	1	0		23.18	23.38	23.25				
10	1	51		23.19	23.24	23.06				
10	50	0		23.30	23.34	23.22				
10	1	1	16-QAM	23.21	23.25	23.17	24.23	0.2649		
10	1	1	64-QAM	21.80	21.97	21.88				
10	1	1	256-QAM	19.22	19.33	19.19				
Limit	ERP < 7W			Result			Pass			



NR n26 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	24.21	24.30	24.18	25.29	0.3381		
15	1	77		24.15	24.09	24.10				
15	36	18		24.21	24.22	24.07				
15	1	0		23.73	23.76	23.66				
15	1	78		23.58	23.63	23.64				
15	75	0		23.68	23.73	23.67				
15	1	1	QPSK	24.23	24.31	24.21			24.24	0.2655
15	1	77		24.17	24.13	24.07				
15	36	18		24.17	24.17	24.08				
15	1	0		23.21	23.33	23.23				
15	1	78		23.11	23.08	23.06				
15	75	0		23.25	23.25	23.11				
15	1	1	16-QAM	23.15	23.26	23.12	24.24	0.2655		
15	1	1	64-QAM	21.83	21.94	21.88				
15	1	1	256-QAM	19.28	19.35	19.75				
Limit	ERP < 7W			Result			Pass			

NR n26 Maximum Average Power [dBm] (GT - LC = 3.13 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	24.11	24.17	24.23	25.26	0.3357		
20	1	104		24.01	24.09	24.11				
20	50	25		24.20	24.16	24.17				
20	1	0		23.64	23.67	23.74				
20	1	105		23.56	23.55	23.57				
20	100	0		23.73	23.75	23.72				
20	1	1	QPSK	24.15	24.18	24.28			24.15	0.26
20	1	104		23.98	24.16	24.10				
20	50	25		24.18	24.19	24.14				
20	1	0		23.15	23.22	23.28				
20	1	105		23.09	23.09	23.11				
20	100	0		23.24	23.23	23.23				
20	1	1	16-QAM	23.15	23.15	23.17	24.15	0.26		
20	1	1	64-QAM	21.79	21.94	21.93				
20	1	1	256-QAM	19.10	19.12	19.23				
Limit	ERP < 7W			Result			Pass			



NR n38 Maximum Average Power [dBm] (GT - LC = 1.97 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	24.45	24.33	24.11	26.45	0.4416		
20	1	49		24.38	24.31	24.16				
20	25	12		24.48	24.19	24.12				
20	1	0		24.05	23.86	23.61				
20	1	50		23.93	23.65	23.64				
20	50	0		23.89	23.64	23.64				
20	1	1	QPSK	24.48	24.32	24.01			26.45	0.4416
20	1	49		24.36	24.12	24.07				
20	25	12		24.43	24.22	24.09				
20	1	0		23.51	23.31	23.01				
20	1	50		23.35	23.20	23.14				
20	50	0		23.41	23.16	23.06				
20	1	1	16-QAM	23.57	23.28	23.21	25.54	0.3581		
20	1	1	64-QAM	22.09	21.86	21.54				
20	1	1	256-QAM	19.68	19.55	19.25				
Limit	EIRP < 2W			Result			Pass			



NR n38 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	24.48	24.46	24.32	26.47	0.4436
30	1	76		24.40	24.41	24.35		
30	36	18		24.49	24.32	24.22		
30	1	0		24.22	24.13	23.85		
30	1	77		23.91	23.96	23.88		
30	75	0		24.01	23.84	23.78		
30	1	1	QPSK	24.50	24.41	24.31		
30	1	76		24.33	24.40	24.32		
30	36	18		24.49	24.31	24.25		
30	1	0		23.64	23.56	23.32		
30	1	77		23.37	23.40	23.32		
30	75	0		23.48	23.35	23.25		
30	1	1	16-QAM	23.81	23.71	23.48	25.78	0.3784
30	1	1	64-QAM	22.22	22.16	21.84		
30	1	1	256-QAM	19.92	19.88	19.48		
Limit	EIRP < 2W			Result			Pass	

NR n38 Maximum Average Power [dBm] (GT - LC = 1.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	24.47	24.48	24.45	26.45	0.4416
40	1	104		24.41	24.42	24.41		
40	50	25		24.33	24.32	24.31		
40	1	0		24.09	24.14	24.05		
40	1	105		23.93	23.92	23.88		
40	100	0		23.97	23.94	23.88		
40	1	1	QPSK	24.45	24.41	24.46		
40	1	104		24.34	24.34	24.31		
40	50	25		24.35	24.32	24.31		
40	1	0		23.52	23.62	23.48		
40	1	105		23.42	23.31	23.23		
40	100	0		23.51	23.45	23.31		
40	1	1	16-QAM	23.68	23.76	23.61	25.73	0.3741
40	1	1	64-QAM	22.11	22.26	22.10		
40	1	1	256-QAM	19.74	19.89	19.81		
Limit	EIRP < 2W			Result			Pass	



NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	25.20	25.69	25.41	28.66	0.7345
20	1	49		25.22	25.57	25.52		
20	25	12		25.20	25.60	25.43		
20	1	0		21.68	22.16	21.95		
20	1	50		21.76	22.03	22.05		
20	50	0		24.67	25.10	24.98		
20	1	1	QPSK	25.08	25.59	25.36		
20	1	49		25.16	25.50	25.49		
20	25	12		25.16	25.58	25.43		
20	1	0		21.68	22.11	21.87		
20	1	50		21.65	22.02	22.02		
20	50	0		24.20	24.60	24.43		
20	1	1	16-QAM	24.28	24.76	24.53	27.73	0.5929
20	1	1	64-QAM	22.65	23.21	22.92		
20	1	1	256-QAM	20.38	20.82	20.67		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
30	1	1	PI/2 BPSK	25.46	25.64	25.46	28.76	0.7516
30	1	76		25.43	25.66	25.79		
30	36	18		25.21	25.64	25.52		
30	1	0		21.73	22.15	21.96		
30	1	77		21.95	22.13	22.10		
30	75	0		24.75	25.13	25.02		
30	1	1	QPSK	25.14	25.60	25.38		
30	1	76		25.37	25.62	25.72		
30	36	18		25.21	25.62	25.53		
30	1	0		21.68	22.13	21.92		
30	1	77		21.86	22.12	22.24		
30	75	0		24.29	24.63	24.51		
30	1	1	16-QAM	24.38	24.78	24.53	27.75	0.5957
30	1	1	64-QAM	22.76	23.21	23.03		
30	1	1	256-QAM	20.36	20.81	20.62		
Limit	EIRP < 2W			Result			Pass	



NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)												
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)				
40	1	1	PI/2 BPSK	25.34	25.84	25.37	28.81	0.7603				
40	1	104		25.71	25.66	25.82						
40	50	25		25.32	25.62	25.45						
40	1	0		21.82	22.33	21.84						
40	1	105		22.19	22.16	22.36						
40	100	0		24.89	25.17	25.03						
40	1	1	QPSK	25.26	25.75	25.32			28.81	0.7603		
40	1	104		25.67	25.67	25.76						
40	50	25		25.27	25.58	25.46						
40	1	0		21.74	22.34	21.85						
40	1	105		22.16	22.20	22.21						
40	100	0		24.36	24.68	24.49						
40	1	1	16-QAM	24.40	24.92	24.45					27.89	0.6152
40	1	1	64-QAM	22.96	23.41	22.96						
40	1	1	256-QAM	20.49	21.02	20.55						
Limit	EIRP < 2W			Result			Pass					

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)												
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)				
50	1	1	PI/2 BPSK	25.27	25.67	25.16	28.73	0.7464				
50	1	131		25.76	25.53	25.58						
50	64	32		25.33	25.60	25.29						
50	1	0		21.80	22.24	21.67						
50	1	132		22.22	22.06	22.12						
50	128	0		24.83	25.00	24.80						
50	1	1	QPSK	25.21	25.62	25.12			28.73	0.7464		
50	1	131		25.67	25.50	25.51						
50	64	32		25.29	25.56	25.27						
50	1	0		21.76	22.12	21.61						
50	1	132		22.16	22.09	22.07						
50	128	0		24.32	24.58	24.28						
50	1	1	16-QAM	24.32	24.77	24.29					27.74	0.5943
50	1	1	64-QAM	22.97	23.22	22.71						
50	1	1	256-QAM	20.45	20.87	20.34						
Limit	EIRP < 2W			Result			Pass					



NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
60	1	1	PI/2 BPSK	25.12	25.66	25.20	28.73	0.7464
60	1	160		25.76	25.53	25.62		
60	81	40		25.47	25.57	25.37		
60	1	0		21.72	22.16	21.68		
60	1	161		22.25	22.01	22.11		
60	162	0		24.90	25.06	24.90		
60	1	1	QPSK	25.12	25.62	25.12		
60	1	160		25.73	25.45	25.54		
60	81	40		25.42	25.58	25.38		
60	1	0		21.52	22.14	21.63		
60	1	161		22.27	21.95	22.10		
60	162	0		24.45	24.58	24.41		
60	1	1	16-QAM	24.28	24.82	24.21	27.79	0.6012
60	1	1	64-QAM	22.75	23.35	22.77		
60	1	1	256-QAM	20.35	20.90	20.35		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
70	1	1	PI/2 BPSK	25.11	25.56	25.10	28.53	0.7129
70	1	187		25.53	25.21	25.44		
70	90	45		25.26	25.40	25.28		
70	1	0		21.63	22.07	21.61		
70	1	188		22.02	21.77	21.98		
70	180	0		24.90	24.95	24.84		
70	1	1	QPSK	24.98	25.51	25.05		
70	1	187		25.48	25.12	25.42		
70	90	45		25.27	25.35	25.28		
70	1	0		21.53	22.03	21.46		
70	1	188		21.94	21.77	21.97		
70	180	0		24.38	24.51	24.31		
70	1	1	16-QAM	24.15	24.67	24.20	27.64	0.5808
70	1	1	64-QAM	22.55	23.19	22.71		
70	1	1	256-QAM	20.22	20.75	20.34		
Limit	EIRP < 2W			Result			Pass	



NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
80	1	1	PI/2 BPSK	24.99	25.56	25.06	28.53	0.7129
80	1	215		25.48	25.27	25.44		
80	108	54		25.41	25.40	25.30		
80	1	0		21.50	22.10	21.53		
80	1	216		22.02	21.78	21.99		
80	216	0		24.81	24.96	24.81		
80	1	1	QPSK	24.93	25.52	25.02		
80	1	215		25.49	25.25	25.42		
80	108	54		25.43	25.41	25.31		
80	1	0		21.46	21.06	21.54		
80	1	216		21.98	21.79	21.92		
80	216	0		24.28	24.36	24.35		
80	1	1	16-QAM	24.19	24.65	24.17	27.62	0.5781
80	1	1	64-QAM	22.62	23.06	22.61		
80	1	1	256-QAM	20.19	20.79	20.25		
Limit	EIRP < 2W			Result			Pass	

NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
90	1	1	PI/2 BPSK	25.04	25.50	25.11	28.57	0.7194
90	1	243		25.60	25.38	25.49		
90	120	60		25.42	25.38	25.23		
90	1	0		21.62	22.05	21.55		
90	1	244		22.08	21.87	21.99		
90	243	0		24.94	24.82	24.70		
90	1	1	QPSK	24.92	25.45	25.04		
90	1	243		25.50	25.35	25.43		
90	120	60		25.41	25.37	25.21		
90	1	0		21.47	22.05	21.58		
90	1	244		21.96	21.92	21.98		
90	243	0		24.41	24.40	24.26		
90	1	1	16-QAM	24.05	24.61	24.32	27.58	0.5728
90	1	1	64-QAM	22.53	23.09	22.70		
90	1	1	256-QAM	20.13	20.67	20.36		
Limit	EIRP < 2W			Result			Pass	



NR n41 HPUE Maximum Average Power [dBm] (GT - LC = 2.97 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	25.17	25.50	25.35	28.53	0.7129
100	1	271		25.56	25.36	25.53		
100	135	67		25.52	25.39	25.17		
100	1	0		21.71	22.05	21.85		
100	1	272		22.09	22.99	22.04		
100	270	0		24.87	24.93	24.81		
100	1	1	QPSK	24.98	25.46	25.27		
100	1	271		25.45	25.32	25.49		
100	135	67		25.51	25.42	25.18		
100	1	0		21.53	21.95	21.80		
100	1	272		21.96	21.99	21.99		
100	270	0		24.41	24.41	24.32		
100	1	1	16-QAM	24.25	24.64	24.43	27.61	0.5768
100	1	1	64-QAM	22.78	23.02	22.95		
100	1	1	256-QAM	20.28	20.73	20.53		
Limit	EIRP < 2W			Result			Pass	



NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	24.11	24.34	24.36	27.89	0.6152		
5	1	23		24.21	24.42	24.30				
5	12	6		24.20	24.37	24.35				
5	1	0		23.60	23.82	23.78				
5	1	24		23.62	23.85	23.76				
5	25	0		23.62	23.95	23.84				
5	1	1	QPSK	24.21	24.33	24.36			26.72	0.4699
5	1	23		24.23	24.48	24.32				
5	12	6		24.18	24.34	24.35				
5	1	0		23.16	23.37	23.38				
5	1	24		23.14	23.45	23.32				
5	25	0		23.18	23.43	23.38				
5	1	1	16-QAM	23.08	23.27	23.31	26.72	0.4699		
5	1	1	64-QAM	21.85	22.00	22.02				
5	1	1	256-QAM	19.22	19.37	19.31				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	24.34	24.39	24.40	27.88	0.6138		
10	1	50		24.27	24.42	24.36				
10	25	12		24.30	24.40	24.37				
10	1	0		23.72	23.94	23.90				
10	1	51		23.70	23.86	23.81				
10	50	0		23.77	23.91	23.86				
10	1	1	QPSK	24.29	24.41	24.39			26.84	0.4831
10	1	50		24.26	24.47	24.37				
10	25	12		24.36	24.41	24.39				
10	1	0		23.34	23.40	23.44				
10	1	51		23.27	23.50	23.33				
10	50	0		23.36	23.41	23.39				
10	1	1	16-QAM	23.18	23.37	23.43	26.84	0.4831		
10	1	1	64-QAM	21.97	22.13	22.09				
10	1	1	256-QAM	19.33	19.41	19.41				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	24.10	24.33	24.15	27.89	0.6152		
15	1	77		24.24	24.48	24.16				
15	36	18		24.08	24.41	24.18				
15	1	0		23.56	23.80	23.73				
15	1	78		23.73	23.97	23.66				
15	75	0		23.64	23.87	23.62				
15	1	1	QPSK	24.17	24.32	24.29			26.7	0.4677
15	1	77		24.25	24.36	24.28				
15	36	18		24.20	24.36	24.21				
15	1	0		23.20	23.30	23.22				
15	1	78		23.29	23.49	23.19				
15	75	0		23.23	23.43	23.24				
15	1	1	16-QAM	23.06	23.29	23.20	26.7	0.4677		
15	1	1	64-QAM	21.87	21.97	21.95				
15	1	1	256-QAM	19.18	19.28	19.26				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	24.09	24.24	24.34	27.83	0.6067		
20	1	104		24.26	24.42	24.24				
20	50	25		24.05	24.31	24.30				
20	1	0		23.57	23.71	23.88				
20	1	105		23.73	23.88	23.77				
20	100	0		23.56	23.79	23.85				
20	1	1	QPSK	24.13	24.36	24.38			26.76	0.4742
20	1	104		24.21	24.42	24.30				
20	50	25		24.13	24.37	24.38				
20	1	0		23.15	23.31	23.45				
20	1	105		23.16	23.39	23.28				
20	100	0		23.10	23.33	23.37				
20	1	1	16-QAM	23.02	23.27	23.35	26.76	0.4742		
20	1	1	64-QAM	21.79	21.97	22.06				
20	1	1	256-QAM	19.10	19.32	19.35				
Limit	EIRP < 1W			Result			Pass			



NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	24.18	24.22	24.39	27.91	0.618		
30	1	158		24.24	24.42	24.23				
30	80	40		24.19	24.47	24.44				
30	1	0		23.61	23.67	23.86				
30	1	159		23.73	23.88	23.81				
30	160	0		23.67	23.88	23.91				
30	1	1	QPSK	24.06	24.28	24.45			26.8	0.4786
30	1	158		24.32	24.39	24.34				
30	80	40		24.17	24.40	24.50				
30	1	0		23.13	23.24	23.45				
30	1	159		23.27	23.33	23.37				
30	160	0		23.28	23.44	23.52				
30	1	1	16-QAM	23.07	23.16	23.39	26.8	0.4786		
30	1	1	64-QAM	21.81	21.94	22.16				
30	1	1	256-QAM	19.25	19.17	19.42				
Limit	EIRP < 1W			Result			Pass			

NR n66 Maximum Average Power [dBm] (GT - LC = 3.41 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	24.02	24.22	24.33	27.87	0.6124		
40	1	214		24.35	24.41	24.32				
40	108	54		24.22	24.42	24.42				
40	1	0		23.65	23.63	23.88				
40	1	215		23.81	23.89	23.80				
40	216	0		23.70	23.90	23.90				
40	1	1	QPSK	23.74	24.26	24.32			26.72	0.4699
40	1	214		24.46	24.36	24.33				
40	108	54		24.27	24.43	24.43				
40	1	0		22.89	23.22	23.41				
40	1	215		23.37	23.50	23.32				
40	216	0		23.26	23.39	23.43				
40	1	1	16-QAM	22.75	23.22	23.31	26.72	0.4699		
40	1	1	64-QAM	21.60	21.91	22.12				
40	1	1	256-QAM	19.14	19.20	19.32				
Limit	EIRP < 1W			Result			Pass			



NR n71 Maximum Average Power [dBm] (GT - LC = -0.18 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
5	1	1	PI/2 BPSK	24.48	24.31	24.25	22.15	0.1641
5	1	23		24.47	24.34	24.25		
5	12	6		24.40	24.37	24.28		
5	1	0		24.09	23.78	23.80		
5	1	24		24.00	23.85	23.67		
5	25	0		24.05	23.82	23.78		
5	1	1	QPSK	24.47	24.37	24.32		
5	1	23		24.40	24.35	24.24		
5	12	6		24.40	24.42	24.28		
5	1	0		23.69	23.29	23.29		
5	1	24		23.53	23.35	23.27		
5	25	0		23.59	23.37	23.25		
5	1	1	16-QAM	23.66	23.28	23.34	21.33	0.1358
5	1	1	64-QAM	22.25	21.98	21.99		
5	1	1	256-QAM	19.65	19.30	19.27		
Limit	ERP < 3W			Result			Pass	

NR n71 Maximum Average Power [dBm] (GT - LC = -0.18 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)
10	1	1	PI/2 BPSK	24.44	24.34	24.34	22.13	0.1633
10	1	50		24.41	24.38	24.21		
10	25	12		24.46	24.46	24.28		
10	1	0		24.03	23.83	23.86		
10	1	51		23.88	23.84	23.72		
10	50	0		23.97	23.89	23.77		
10	1	1	QPSK	24.46	24.43	24.34		
10	1	50		24.39	24.39	24.21		
10	25	12		24.46	24.44	24.27		
10	1	0		23.63	23.40	23.36		
10	1	51		23.39	23.35	23.24		
10	50	0		23.47	23.37	23.27		
10	1	1	16-QAM	23.54	23.34	23.34	21.21	0.1321
10	1	1	64-QAM	22.23	22.01	22.02		
10	1	1	256-QAM	19.52	19.36	19.32		
Limit	ERP < 3W			Result			Pass	



NR n71 Maximum Average Power [dBm] (GT - LC = -0.18 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
15	1	1	PI/2 BPSK	24.50	24.25	24.25	22.17	0.1648		
15	1	77		24.29	24.16	24.03				
15	36	18		24.37	24.25	24.15				
15	1	0		24.01	23.73	23.74				
15	1	78		23.84	23.60	23.55				
15	75	0		23.90	23.77	23.61				
15	1	1	QPSK	24.49	24.26	24.25			21.15	0.1303
15	1	77		24.22	24.18	24.02				
15	36	18		24.36	24.32	24.16				
15	1	0		23.56	23.34	23.28				
15	1	78		23.27	23.23	23.06				
15	75	0		23.40	23.26	23.16				
15	1	1	16-QAM	23.48	23.25	23.24	21.15	0.1303		
15	1	1	64-QAM	22.19	21.88	21.85				
15	1	1	256-QAM	19.50	19.22	19.19				
Limit	ERP < 3W			Result			Pass			

NR n71 Maximum Average Power [dBm] (GT - LC = -0.18 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
20	1	1	PI/2 BPSK	24.45	24.31	24.35	22.12	0.1629		
20	1	104		24.21	24.07	24.09				
20	50	25		24.36	24.30	24.22				
20	1	0		23.94	23.84	23.74				
20	1	105		23.74	23.58	23.58				
20	100	0		23.85	23.84	23.68				
20	1	1	QPSK	24.41	24.38	24.31			21.13	0.1297
20	1	104		24.28	24.07	24.07				
20	50	25		24.34	24.30	24.22				
20	1	0		23.52	23.38	23.39				
20	1	105		23.22	23.12	23.09				
20	100	0		23.43	23.31	23.20				
20	1	1	16-QAM	23.46	23.30	23.29	21.13	0.1297		
20	1	1	64-QAM	22.06	21.99	22.02				
20	1	1	256-QAM	19.42	19.22	19.24				
Limit	ERP < 3W			Result			Pass			



NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
20	1	1	QPSK	22.29	22.72	22.28	22.08	22.22	22.37	25.20	25.49	25.34	28.11	0.6471
20	1	49		22.37	22.68	22.41	22.22	22.24	22.21	25.31	25.48	25.32		
20	25	12		22.41	22.76	22.37	22.11	22.26	22.21	25.27	25.53	25.30		
20	1	0		20.35	20.77	20.35	20.08	20.33	20.13	23.23	23.57	23.25		
20	1	50		20.48	20.72	20.53	20.15	20.18	20.24	23.33	23.47	23.40		
20	51	0		20.87	21.26	20.95	20.65	20.79	20.75	23.77	24.04	23.86		
20	1	1	16-QAM	21.79	22.26	21.81	21.41	21.63	21.72	24.61	24.97	24.78	27.55	0.5689
20	1	1	64-QAM	20.36	20.83	20.38	19.95	20.26	19.86	23.17	23.56	23.14		
20	1	1	256-QAM	17.35	17.99	17.46	17.12	17.25	17.28	20.25	20.65	20.38		
Limit	EIRP < 2W			Result									Pass	

NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
30	1	1	QPSK	22.44	22.84	22.44	22.14	22.52	22.14	25.30	25.69	25.30	28.27	0.6714
30	1	76		22.75	22.78	22.74	22.60	22.35	22.53	25.69	25.58	25.65		
30	39	19		22.42	22.79	22.65	22.30	22.36	22.42	25.37	25.59	25.55		
30	1	0		20.39	20.88	20.55	20.12	20.54	20.35	23.27	23.72	23.46		
30	1	77		20.80	20.72	20.81	20.44	20.42	20.51	23.63	23.58	23.67		
30	78	0		20.98	21.33	21.13	20.94	20.90	20.98	23.97	24.13	24.07		
30	1	1	16-QAM	21.86	22.38	22.03	21.66	22.03	21.79	24.77	25.22	24.92	27.80	0.6026
30	1	1	64-QAM	20.44	20.93	20.54	20.09	20.44	20.37	23.28	23.70	23.47		
30	1	1	256-QAM	17.41	18.03	17.61	17.54	17.62	17.56	20.49	20.84	20.60		
Limit	EIRP < 2W			Result									Pass	



NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
40	1	1	QPSK	22.37	22.97	22.50	22.18	22.54	22.13	25.29	25.77	25.33	28.35	0.6839
40	1	104		22.75	22.68	22.70	22.41	22.25	22.34	25.59	25.48	25.53		
40	53	26		22.47	22.83	22.46	22.25	22.37	22.28	25.37	25.62	25.38		
40	1	0		20.39	21.04	20.56	20.20	20.61	20.25	23.31	23.84	23.42		
40	1	105		20.74	20.72	20.77	20.47	20.42	20.38	23.62	23.58	23.59		
40	106	0		21.08	21.42	21.09	20.81	20.97	20.91	23.96	24.21	24.01		
40	1	1	16-QAM	21.76	22.47	21.99	21.65	22.08	21.69	24.72	25.29	24.85	27.87	0.6124
40	1	1	64-QAM	20.41	21.02	20.51	20.05	20.53	20.16	23.24	23.79	23.35		
40	1	1	256-QAM	17.39	18.17	17.61	17.62	17.89	17.50	20.52	21.04	20.57		
Limit	EIRP < 2W			Result									Pass	

NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
50	1	1	QPSK	22.43	22.81	22.36	22.09	22.40	22.02	25.27	25.62	25.20	28.40	0.6918
50	1	131		22.94	22.52	22.63	22.67	21.99	22.29	25.82	25.27	25.47		
50	67	33		22.55	22.81	22.49	22.40	22.33	22.27	25.49	25.59	25.39		
50	1	0		20.35	20.90	20.49	20.16	20.58	20.11	23.27	23.75	23.31		
50	1	132		20.91	20.63	20.71	20.73	20.10	20.46	23.83	23.38	23.60		
50	133	0		21.07	21.29	21.04	20.89	20.84	20.77	23.99	24.08	23.92		
50	1	1	16-QAM	21.85	22.38	21.94	21.53	22.04	21.62	24.70	25.22	24.79	27.80	0.6026
50	1	1	64-QAM	20.41	20.82	20.54	20.06	20.45	19.92	23.25	23.65	23.25		
50	1	1	256-QAM	17.31	18.02	17.45	17.29	17.80	17.39	20.31	20.92	20.43		
Limit	EIRP < 2W			Result									Pass	



NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
60	1	1	QPSK	22.38	22.89	22.32	22.04	22.48	21.83	25.22	25.70	25.09	28.37	0.6871
60	1	160		22.98	22.43	22.44	22.56	22.01	22.10	25.79	25.24	25.28		
60	81	40		22.47	22.81	22.33	22.27	22.32	22.09	25.38	25.58	25.22		
60	1	0		20.33	20.90	20.40	19.99	20.58	19.86	23.17	23.75	23.15		
60	1	161		20.93	20.44	20.56	20.46	19.96	20.22	23.71	23.22	23.40		
60	162	0		21.13	21.29	20.95	20.73	20.86	20.63	23.94	24.09	23.80		
60	1	1	16-QAM	21.74	22.42	21.82	21.43	22.01	21.43	24.60	25.23	24.64	27.81	0.6039
60	1	1	64-QAM	20.34	20.95	20.38	20.22	20.40	19.78	23.29	23.69	23.10		
60	1	1	256-QAM	17.42	17.97	17.37	17.28	17.76	17.18	20.36	20.88	20.29		
Limit	EIRP < 2W			Result									Pass	

NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
70	1	1	QPSK	22.21	22.65	22.28	21.75	22.06	21.73	25.00	25.38	25.02	27.96	0.6252
70	1	187		22.59	22.33	22.54	22.07	21.86	22.10	25.35	25.11	25.34		
70	95	47		22.50	22.64	22.36	22.06	22.02	21.89	25.30	25.35	25.14		
70	1	0		20.22	20.69	20.16	19.81	20.18	19.81	23.03	23.45	23.00		
70	1	188		20.70	20.36	20.61	20.16	19.94	20.16	23.45	23.17	23.40		
70	189	0		21.11	21.17	20.91	20.54	20.51	20.41	23.84	23.86	23.68		
70	1	1	16-QAM	21.73	22.23	21.69	21.03	21.41	21.23	24.40	24.85	24.48	27.43	0.5534
70	1	1	64-QAM	20.21	20.75	20.33	19.50	19.92	19.56	22.88	23.37	22.97		
70	1	1	256-QAM	17.28	17.75	17.25	17.01	17.21	16.94	20.16	20.50	20.11		
Limit	EIRP < 2W			Result									Pass	



NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
80	1	1	QPSK	22.18	22.75	22.40	21.68	22.29	21.87	24.95	25.54	25.15	28.12	0.6486
80	1	215		22.72	22.24	22.55	22.14	21.92	22.12	25.45	25.09	25.35		
80	109	54		22.54	22.56	22.32	22.28	22.18	22.06	25.42	25.38	25.20		
80	1	0		20.12	20.91	20.31	19.95	20.37	20.27	23.05	23.66	23.30		
80	1	216		20.82	20.25	20.52	20.51	19.89	20.05	23.68	23.08	23.30		
80	217	0		21.01	21.04	20.82	20.75	20.81	20.49	23.89	23.94	23.67		
80	1	1	16-QAM	21.64	22.31	21.81	21.32	22.20	21.62	24.49	25.27	24.73	27.85	0.6095
80	1	1	64-QAM	20.30	20.83	20.25	19.70	20.30	19.87	23.02	23.58	23.07		
80	1	1	256-QAM	17.26	17.77	17.48	17.15	17.67	17.22	20.22	20.73	20.36		
Limit	EIRP < 2W			Result									Pass	

NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
90	1	1	QPSK	22.17	22.62	22.44	21.89	22.28	21.92	25.04	25.46	25.20	28.04	0.6368
90	1	243		22.63	22.38	22.45	22.19	22.05	22.21	25.43	25.23	25.34		
90	123	61		22.60	22.69	22.33	22.28	22.17	22.19	25.45	25.45	25.27		
90	1	0		20.18	20.70	20.50	19.94	20.40	20.08	23.07	23.56	23.31		
90	1	244		20.75	20.36	20.56	20.30	20.00	20.29	23.54	23.19	23.44		
90	245	0		21.07	21.21	21.05	20.77	20.71	20.57	23.93	23.98	23.83		
90	1	1	16-QAM	21.54	22.14	22.01	21.60	21.71	21.50	24.58	24.94	24.77	27.52	0.5649
90	1	1	64-QAM	20.31	20.83	20.58	19.70	20.34	20.29	23.03	23.60	23.45		
90	1	1	256-QAM	17.13	17.78	17.73	17.30	17.47	17.09	20.23	20.64	20.43		
Limit	EIRP < 2W			Result									Pass	

NR n41 PC2 Maximum Average Power [dBm], DG = 2.58 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 3			Antenna 2			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
100	1	1	QPSK	22.18	22.65	22.34	21.98	22.18	22.09	25.09	25.43	25.23	28.09	0.6442
100	1	271		22.66	22.58	22.45	22.27	22.16	22.22	25.48	25.39	25.35		
100	137	68		22.69	22.69	22.32	22.31	22.18	22.00	25.51	25.45	25.17		
100	1	0		20.25	20.73	20.42	20.01	20.31	20.16	23.14	23.53	23.30		
100	1	272		20.77	20.69	20.51	20.31	20.25	20.33	23.56	23.49	23.43		
100	273	0		21.12	21.17	20.92	20.76	20.63	20.67	23.95	23.92	23.81		
100	1	1	16-QAM	21.71	22.14	21.83	21.27	21.46	21.35	24.51	24.82	24.61	27.40	0.5495
100	1	1	64-QAM	20.20	20.69	20.42	19.79	20.07	19.98	23.01	23.40	23.22		
100	1	1	256-QAM	17.30	17.71	17.46	17.17	17.52	17.32	20.25	20.63	20.40		
Limit	EIRP < 2W			Result									Pass	



FR1 n7

Peak-to-Average Ratio

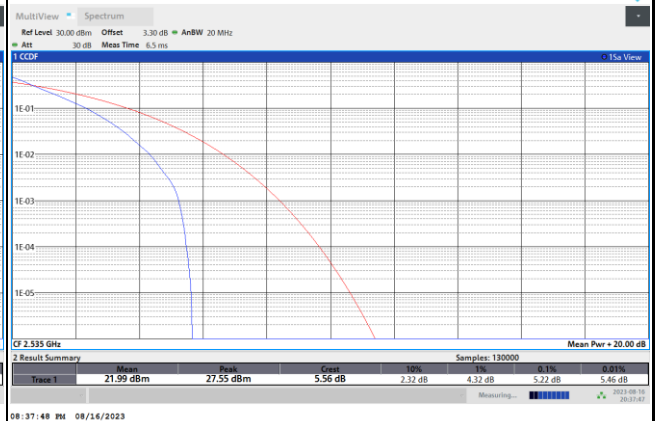
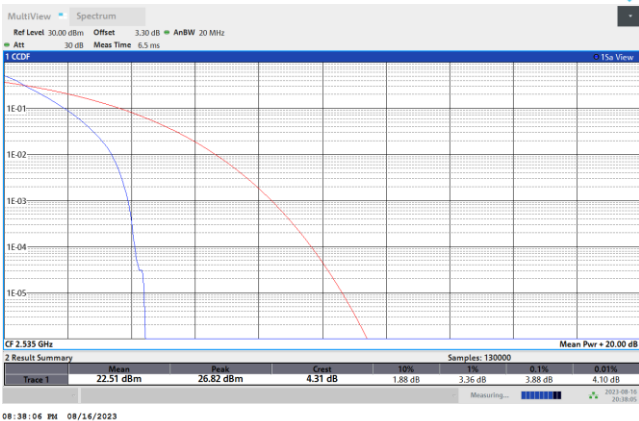
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.88	5.22	6.24	6.40	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.54				PASS



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

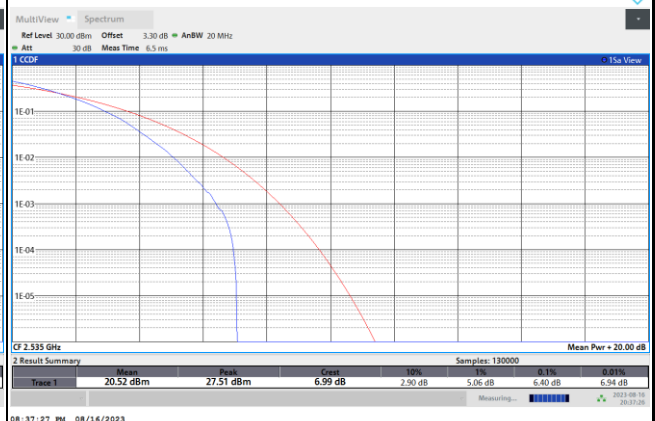
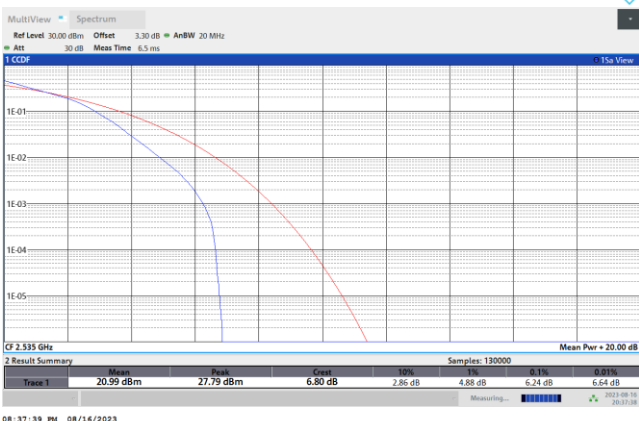
PI/2 BPSK

QPSK

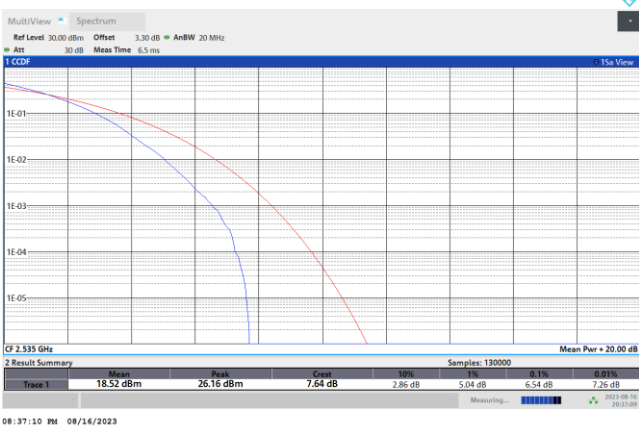


16QAM

64QAM



256QAM





26dB Bandwidth

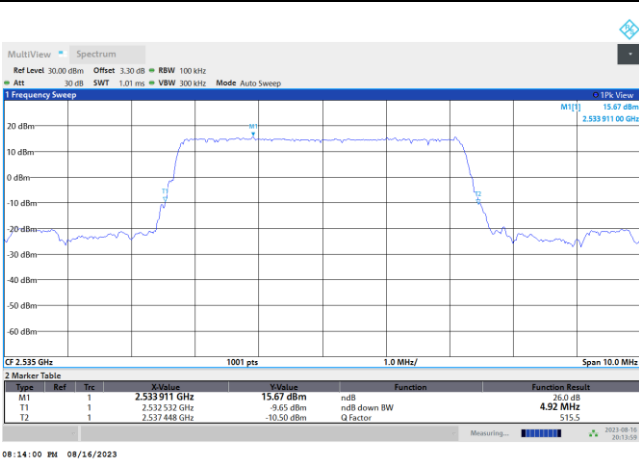
Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.92		9.51		14.30		18.94	
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	23.88		29.55		41.24		-	

Mode	FR1 n7 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.00	4.93	10.03	9.97	14.99	15.11	19.90	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.00	4.93	9.77	9.85	14.99	14.99	19.94	19.90
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	24.88	24.73	29.67	29.49	41.16	41.24	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	24.83	24.63	29.61	29.67	41.32	41.16	-	-



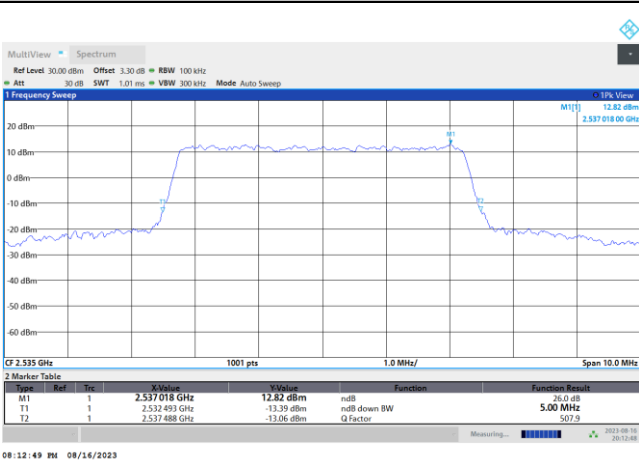
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

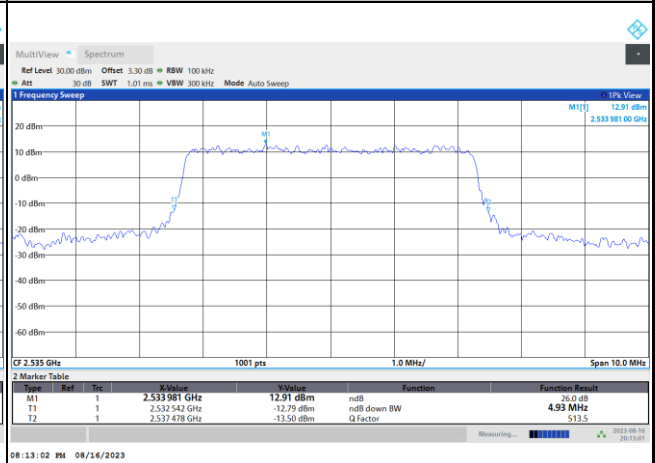


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

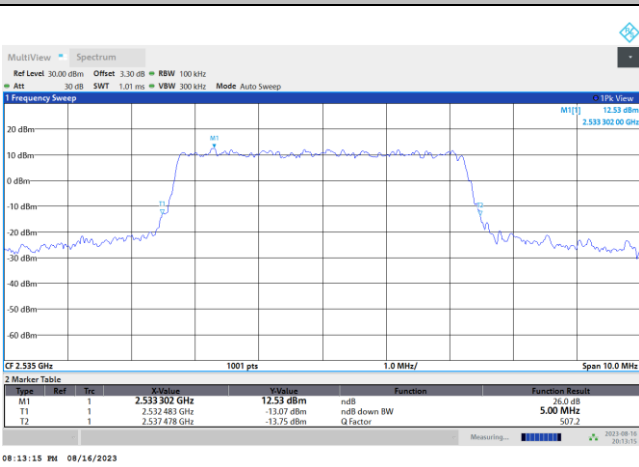
QPSK



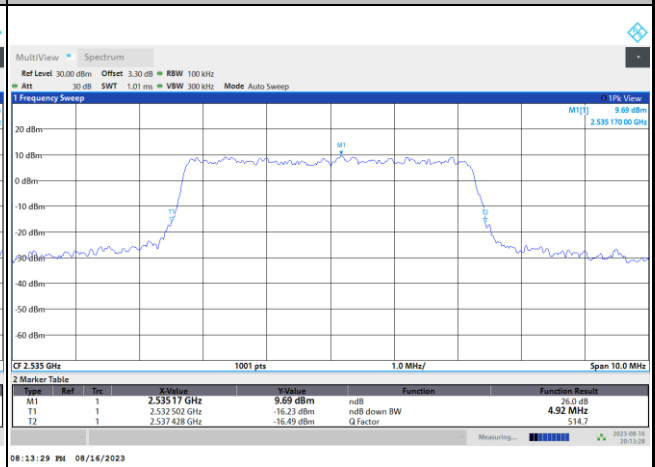
16QAM



64QAM



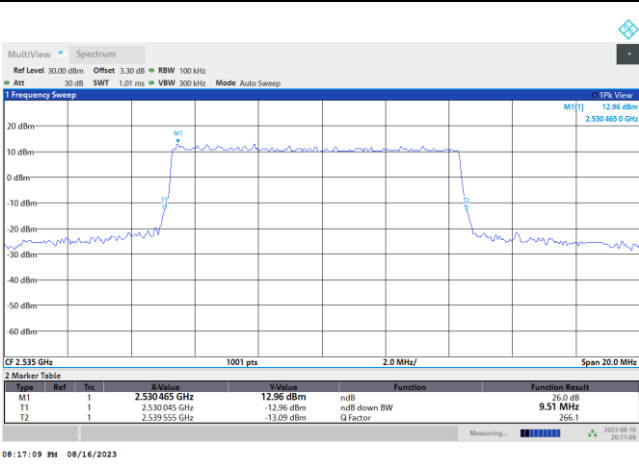
256QAM





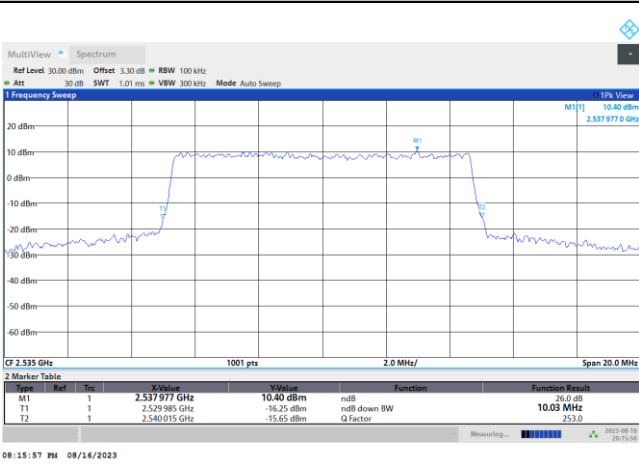
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

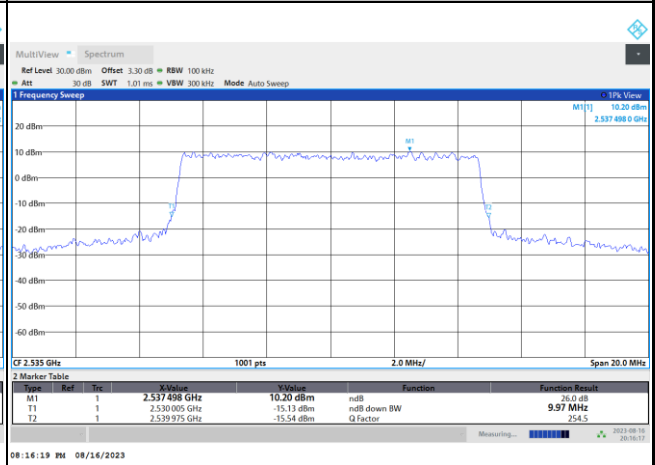


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

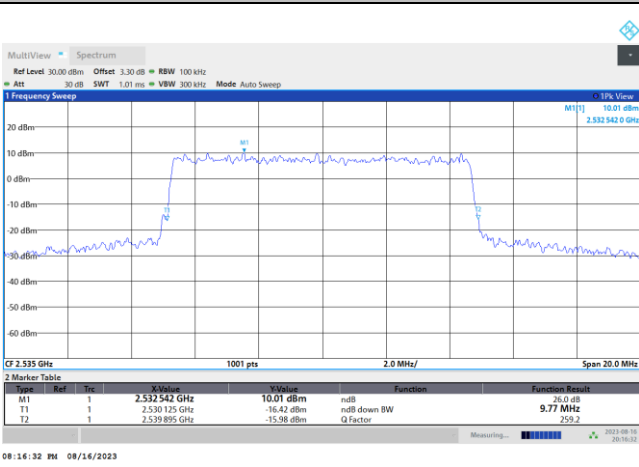
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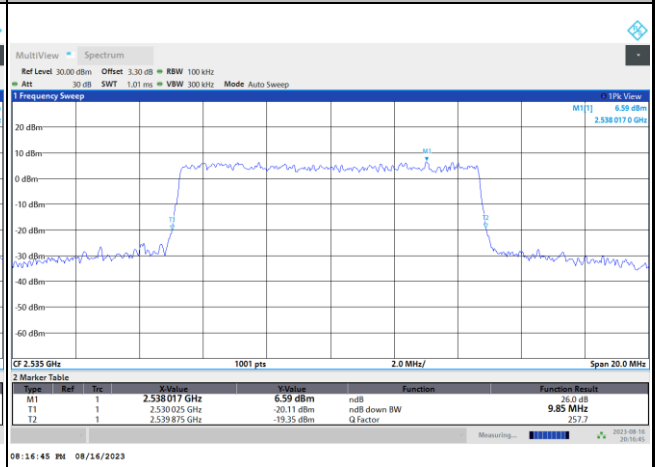
16QAM



64QAM



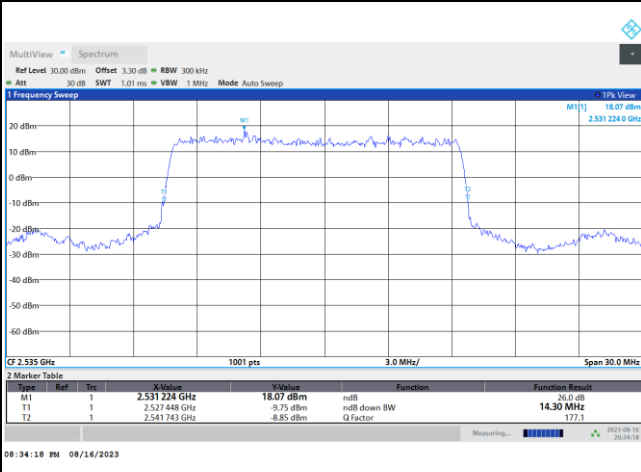
256QAM





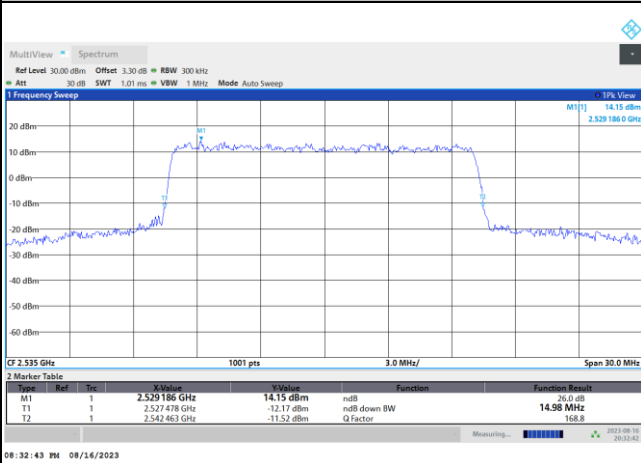
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

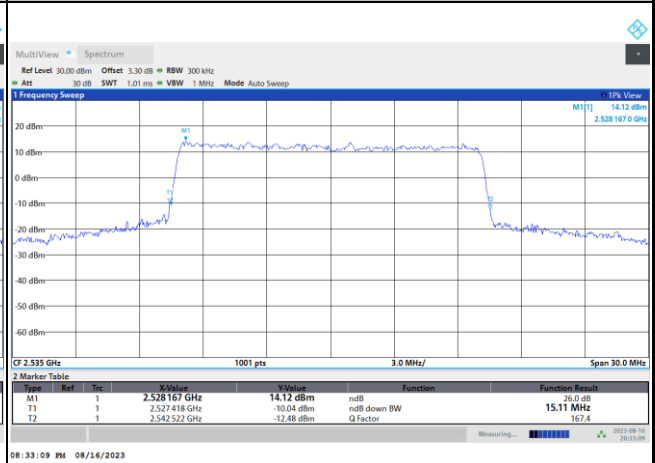


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

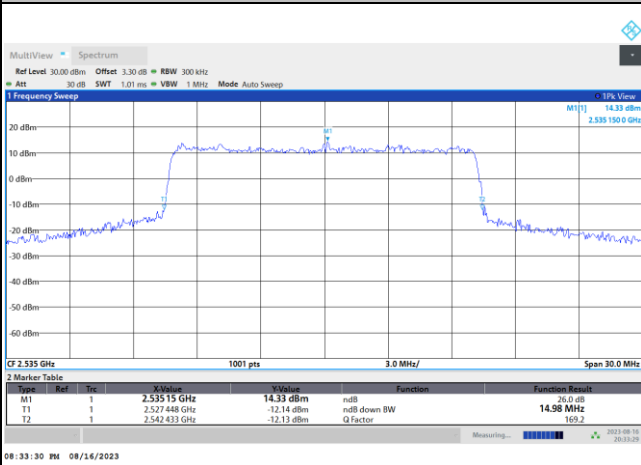
QPSK



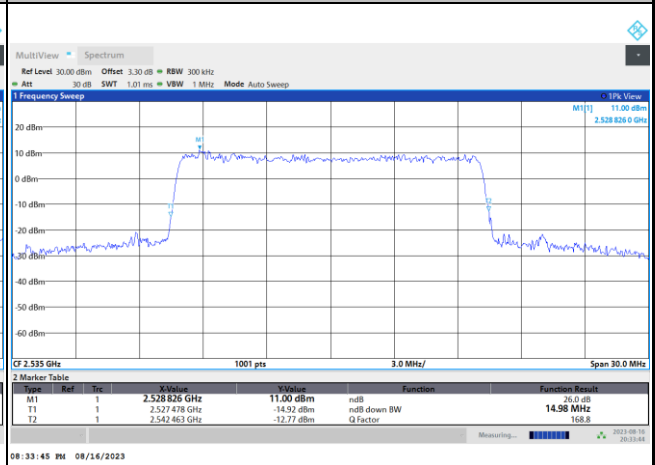
16QAM



64QAM



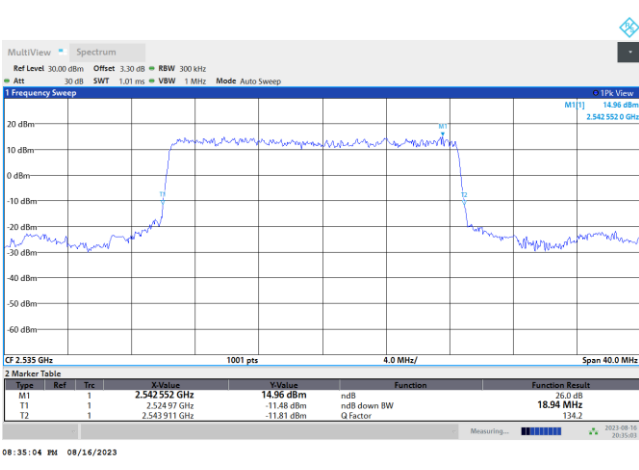
256QAM





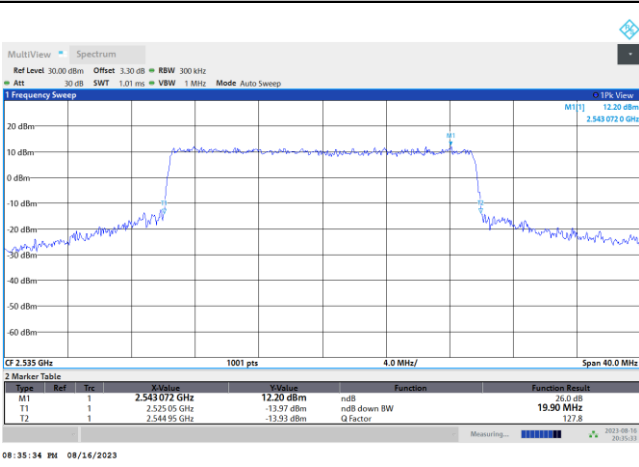
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

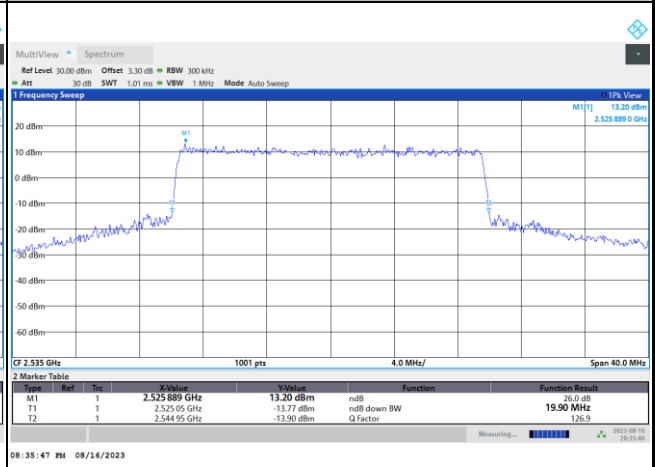


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

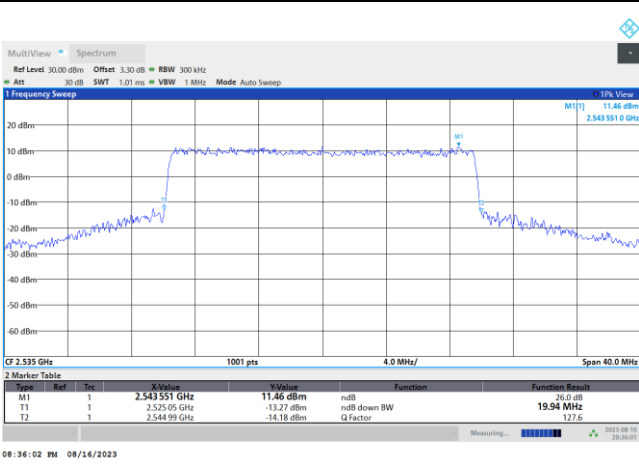
QPSK



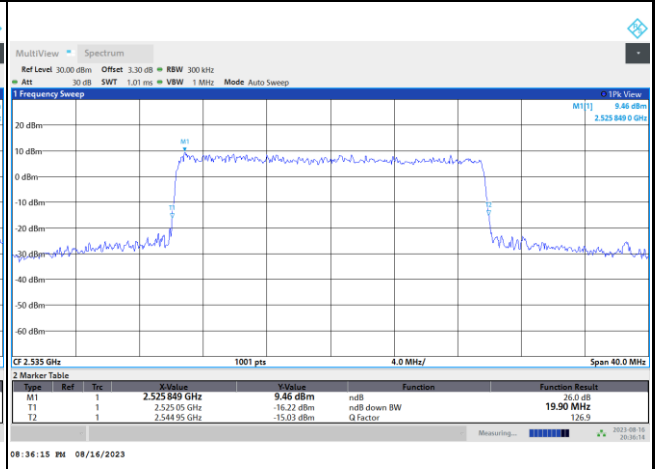
16QAM



64QAM



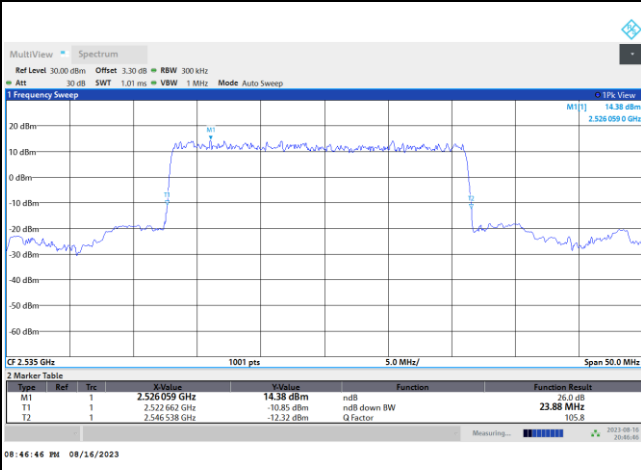
256QAM





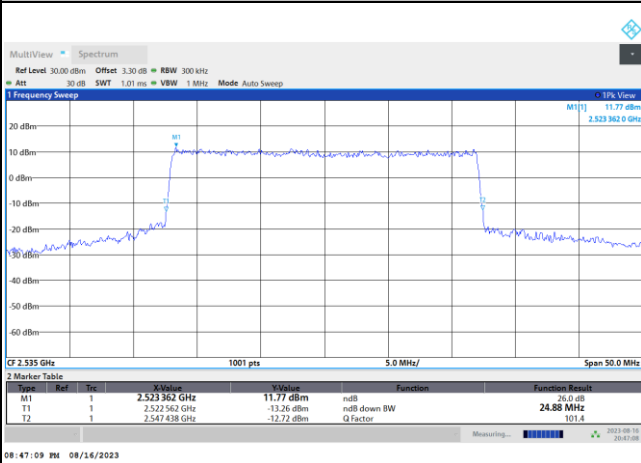
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

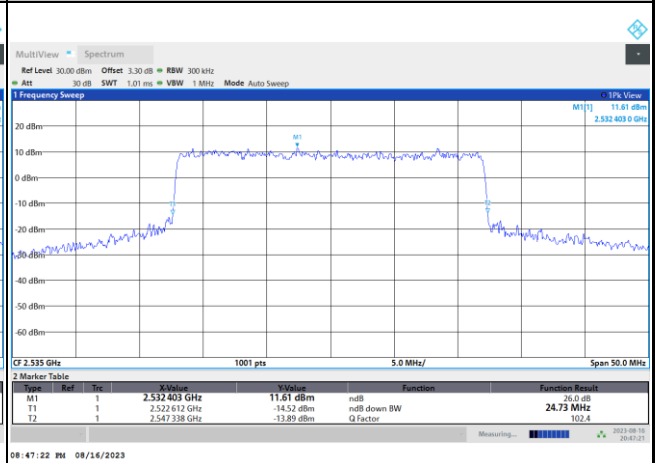


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

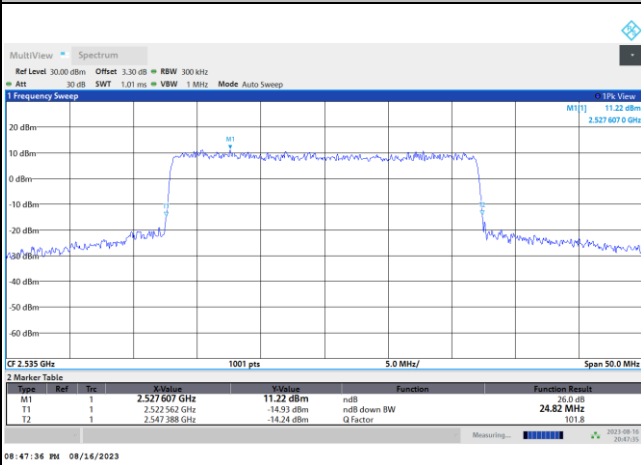
QPSK



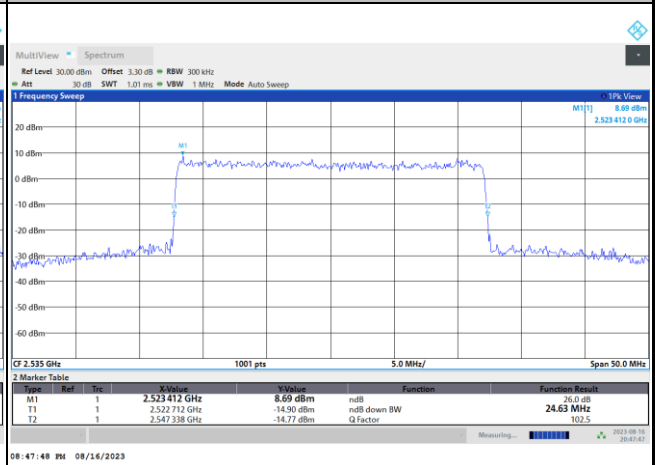
16QAM



64QAM



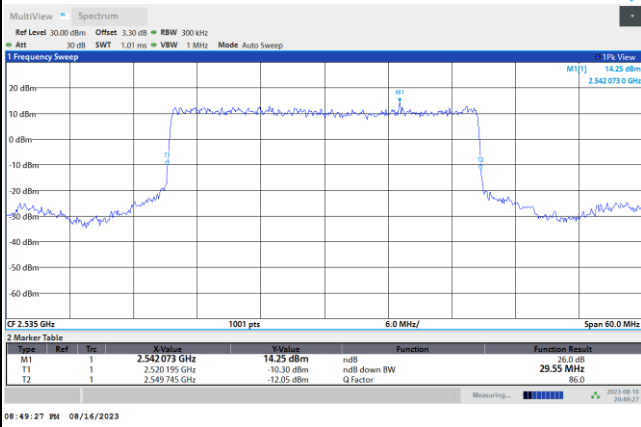
256QAM





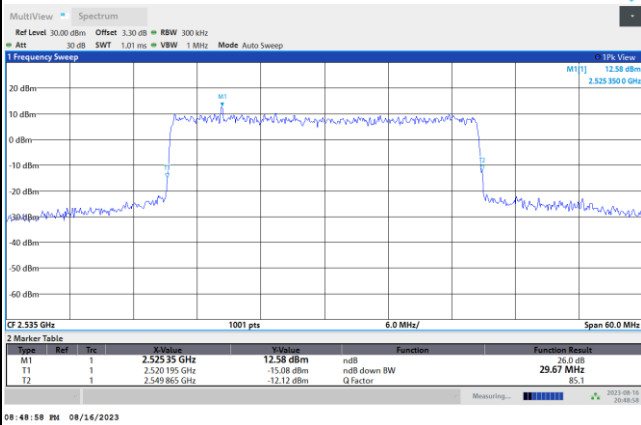
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

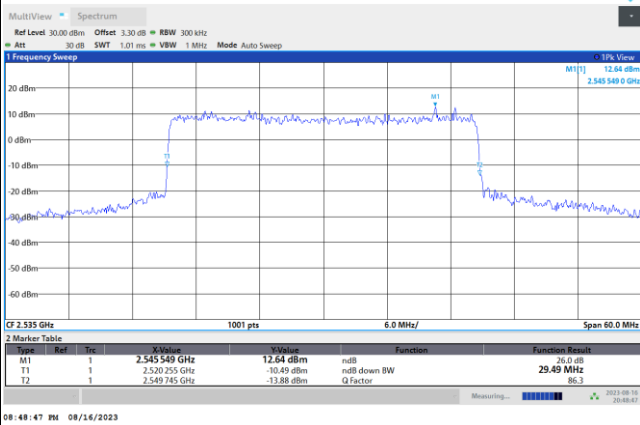


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

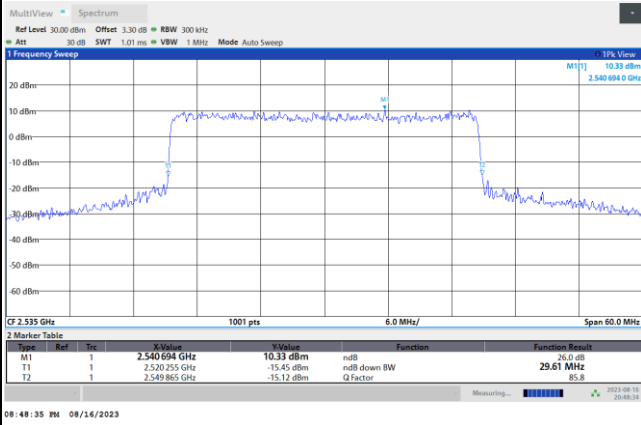
QPSK



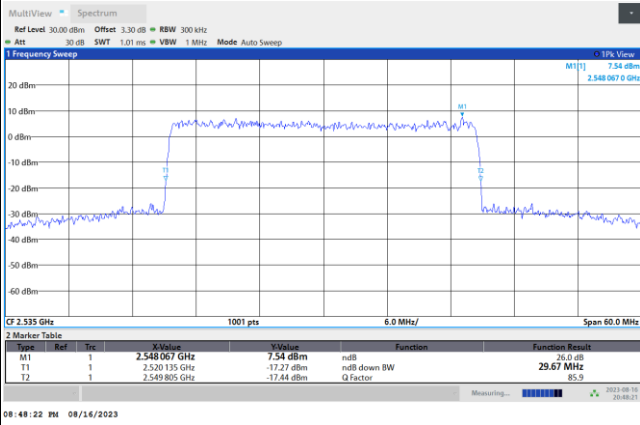
16QAM



64QAM



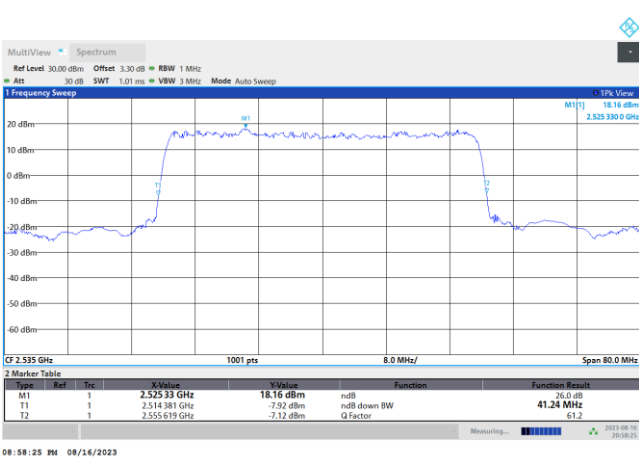
256QAM





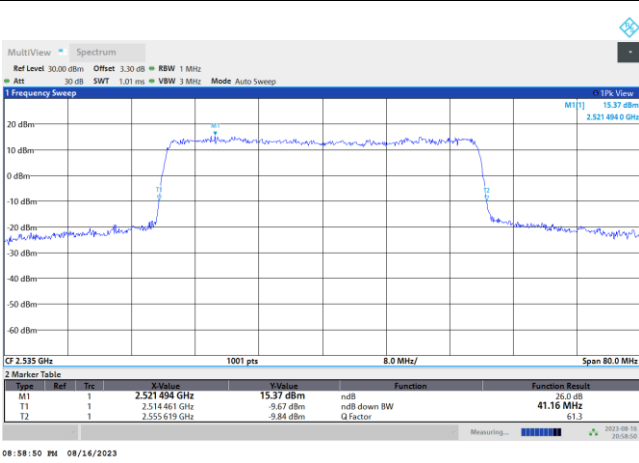
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

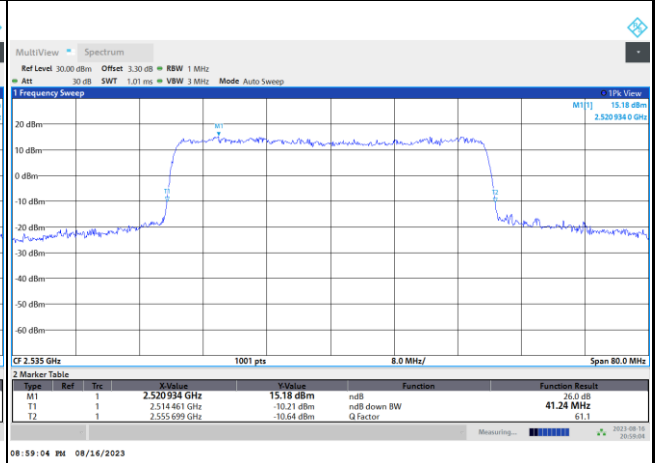


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

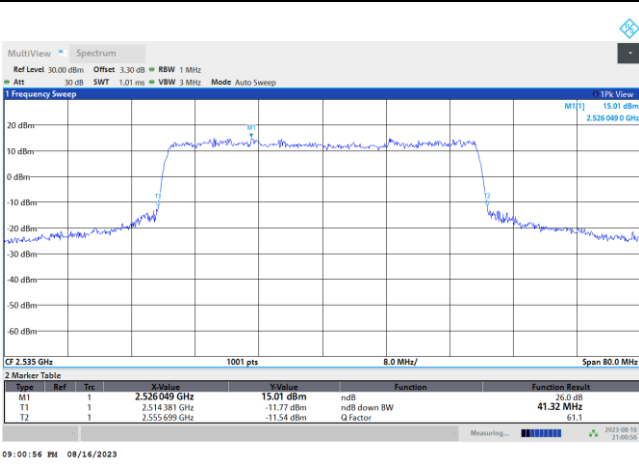
QPSK



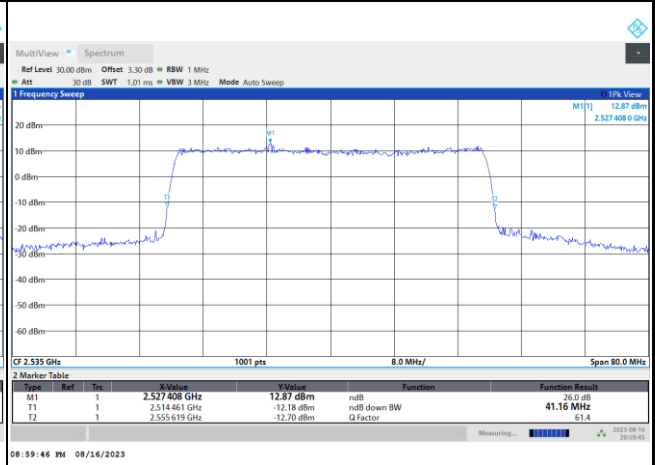
16QAM



64QAM



256QAM





Occupied Bandwidth

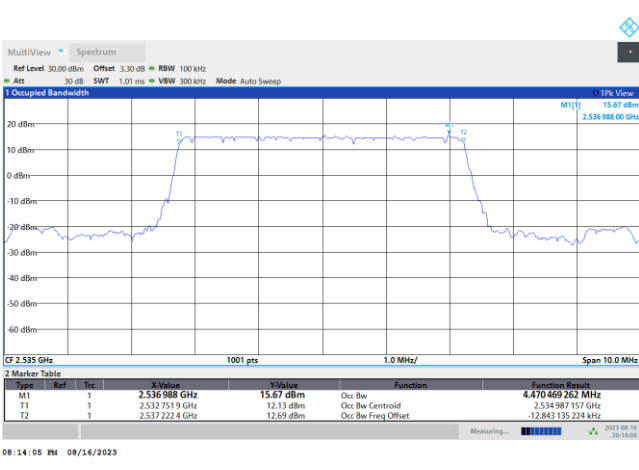
Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.47		8.91		13.48		17.91	
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	22.91		28.59		38.73		-	

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.51	4.50	9.29	9.28	14.17	14.16	18.98	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.48	4.50	9.28	9.30	14.21	14.13	18.99	18.96
BW	25MHz		30MHz		40MHz		50MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	23.80	23.82	28.58	28.63	38.77	38.83	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	23.76	23.79	28.67	28.55	38.94	38.84	-	-



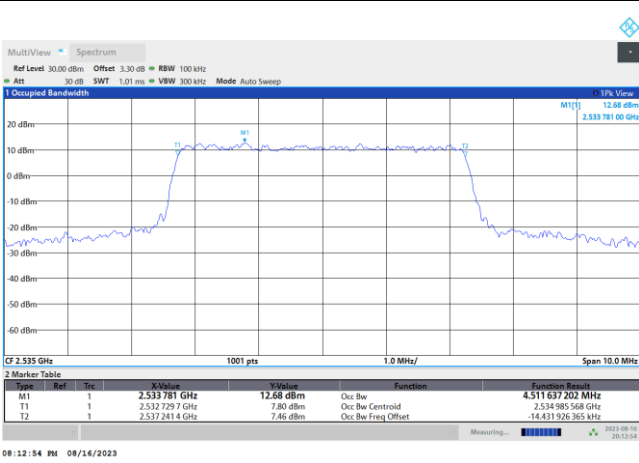
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

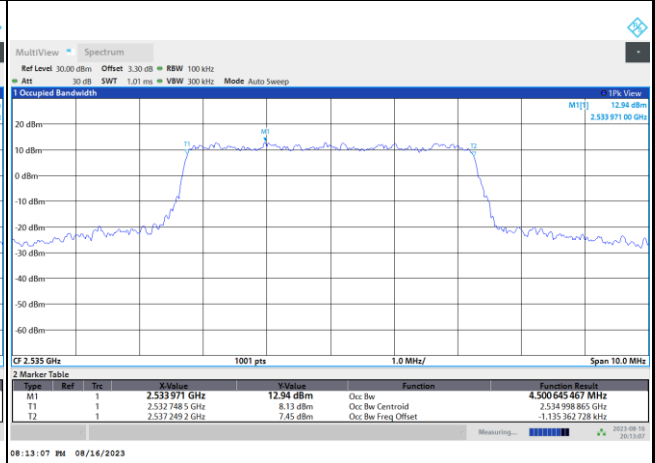


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

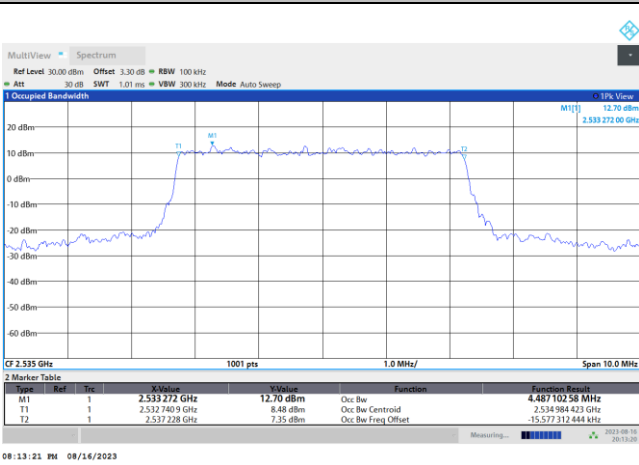
QPSK



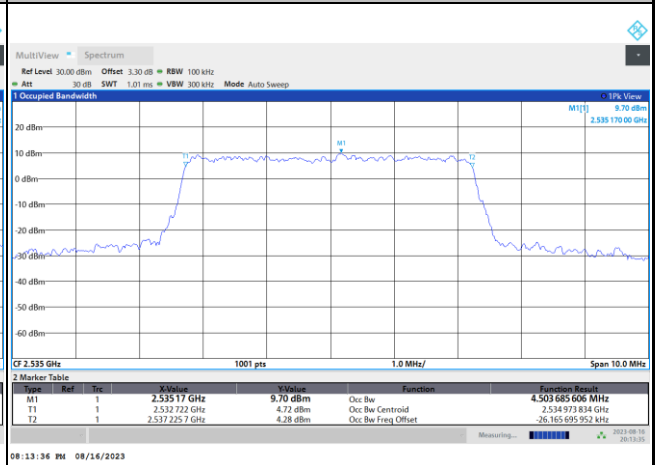
16QAM



64QAM



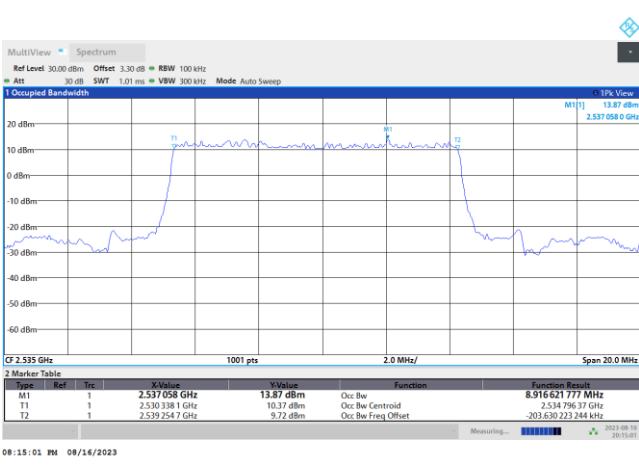
256QAM





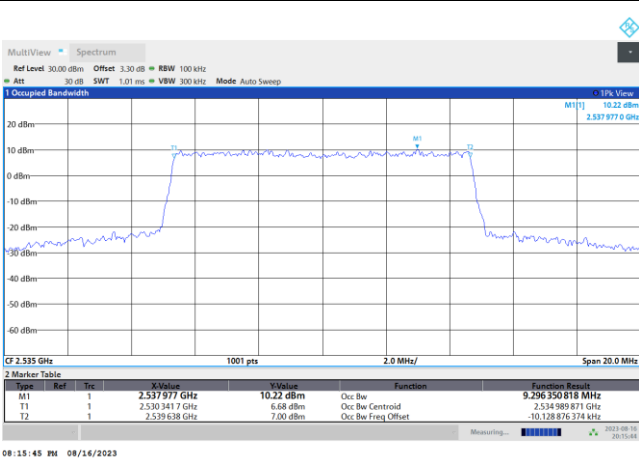
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

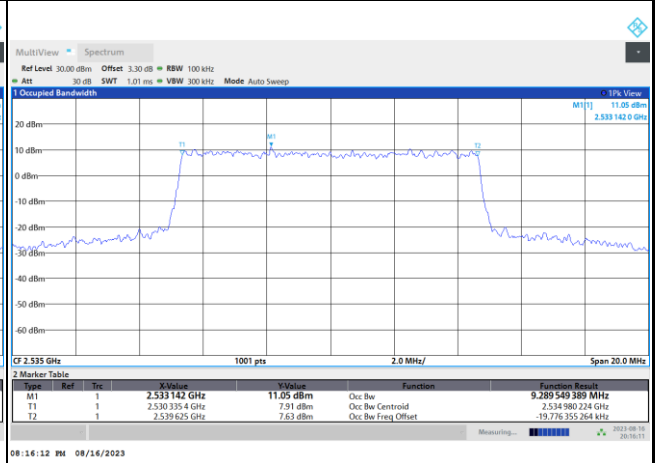


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

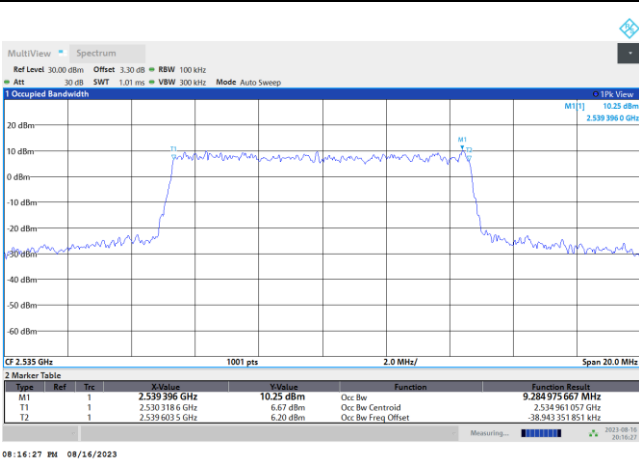
QPSK



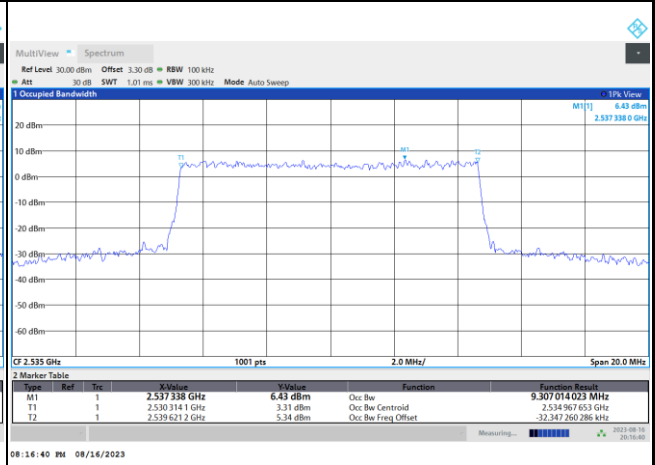
16QAM



64QAM



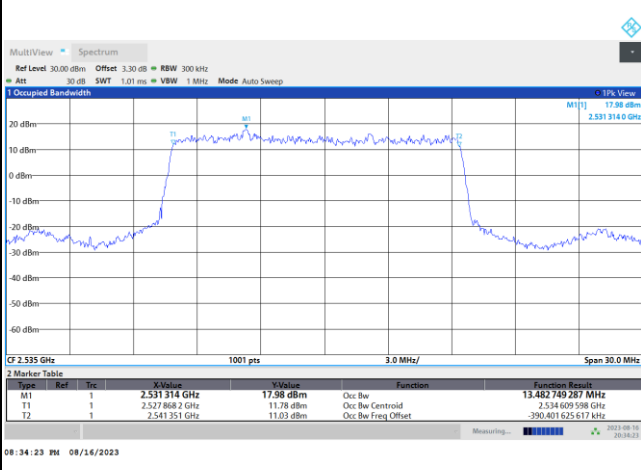
256QAM





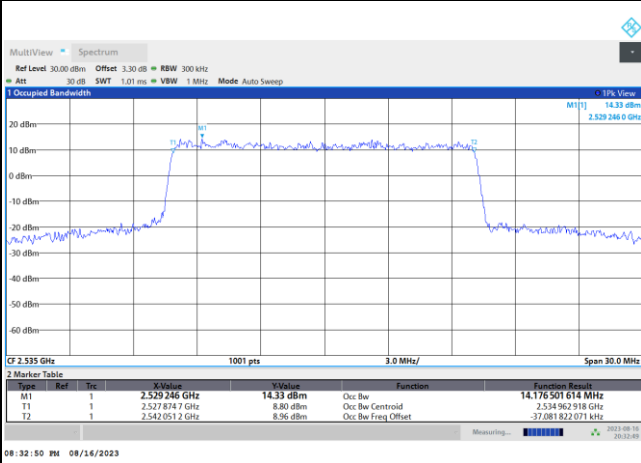
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

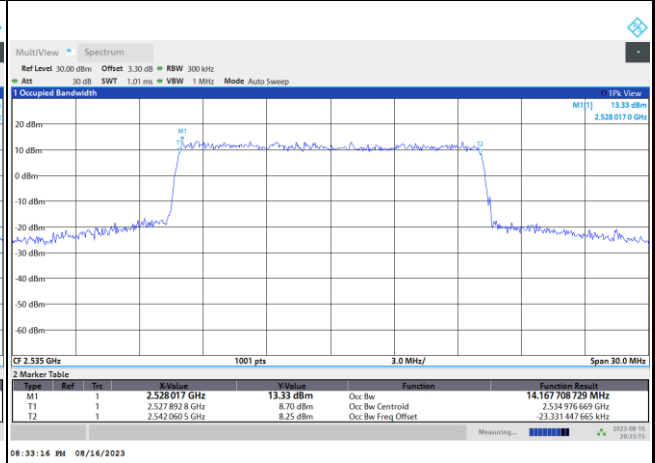


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

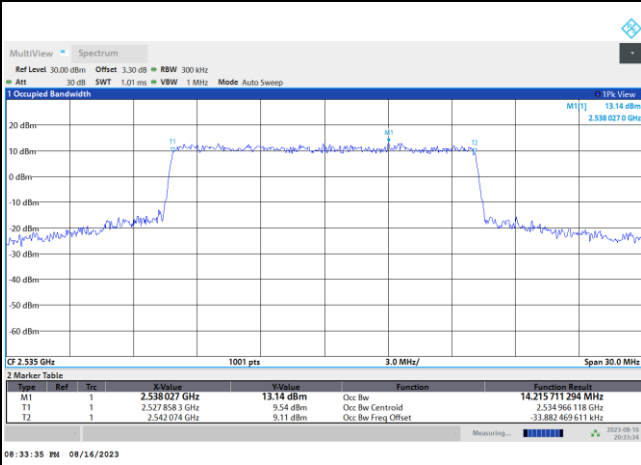
QPSK



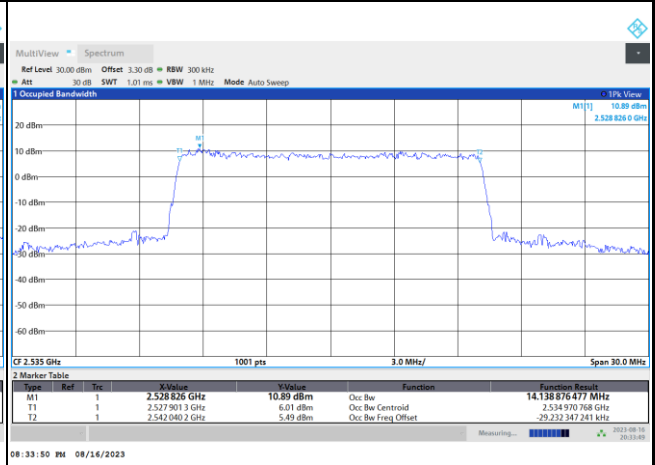
16QAM



64QAM



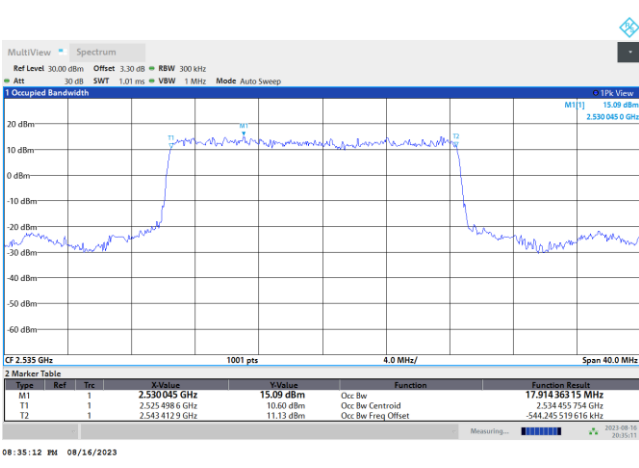
256QAM





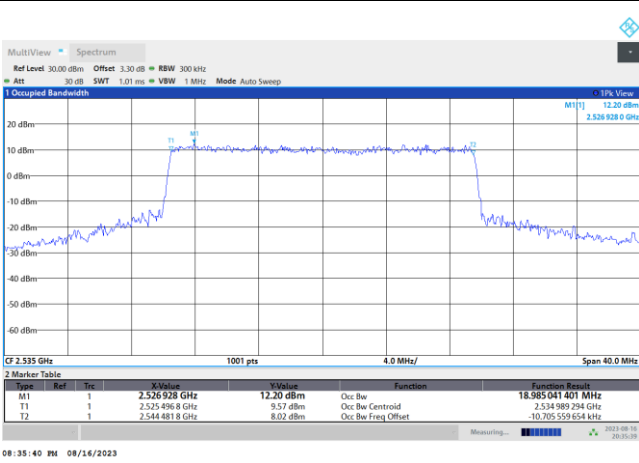
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

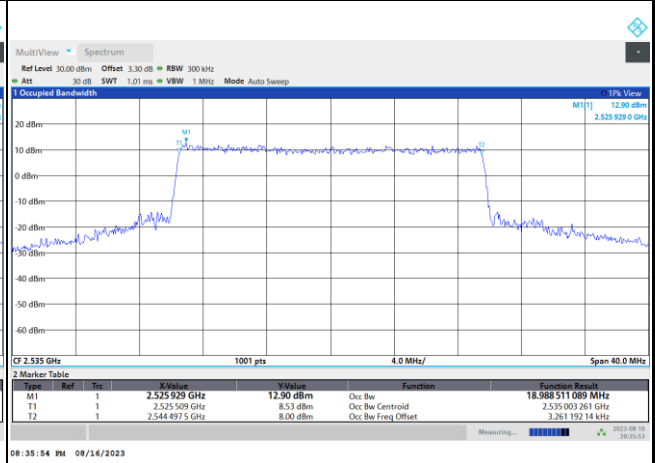


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

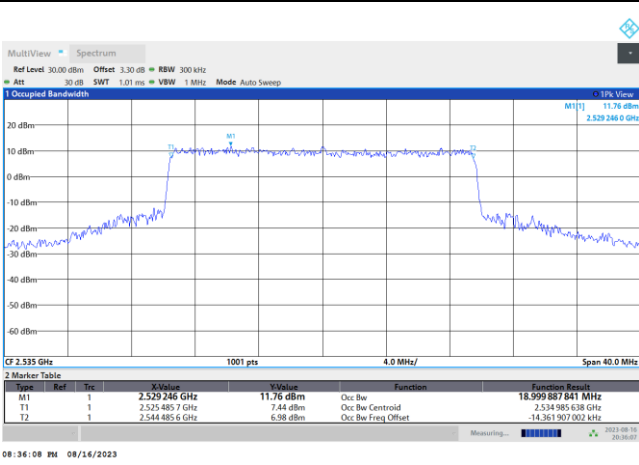
QPSK



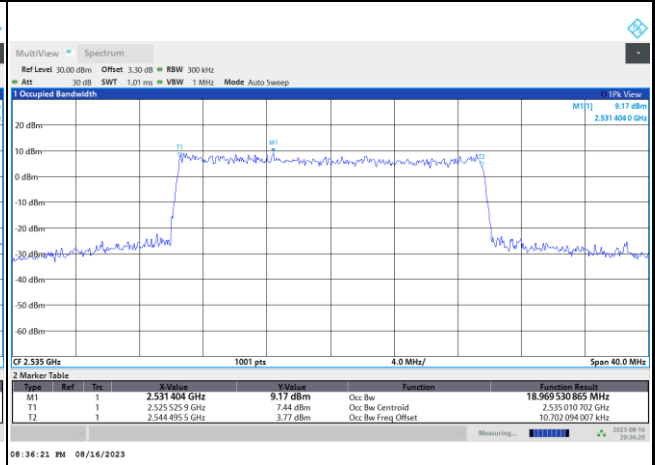
16QAM



64QAM



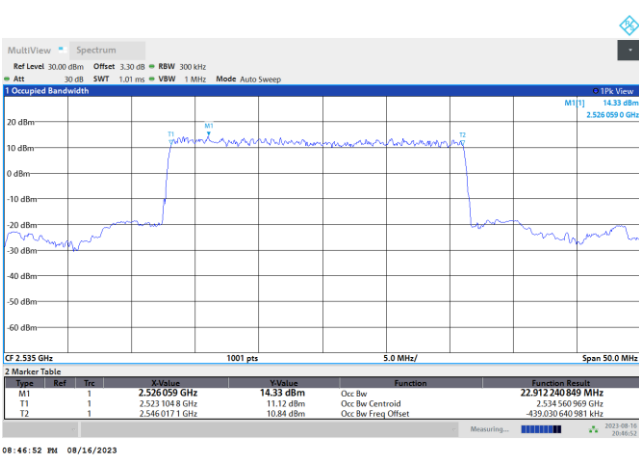
256QAM





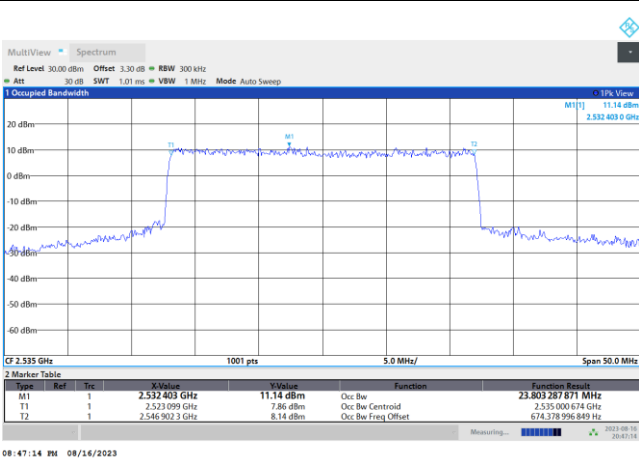
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

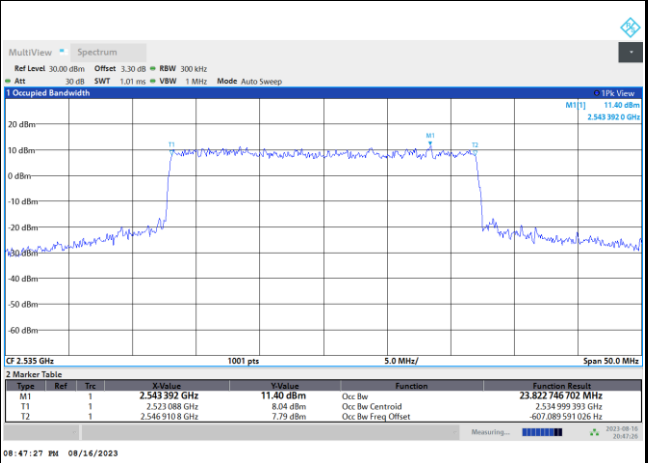


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

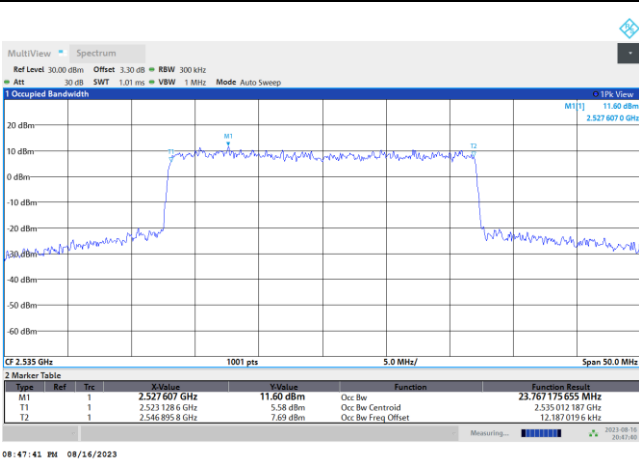
QPSK



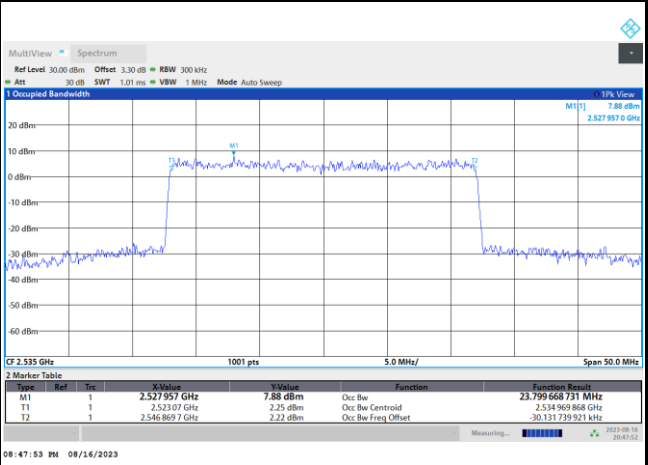
16QAM



64QAM



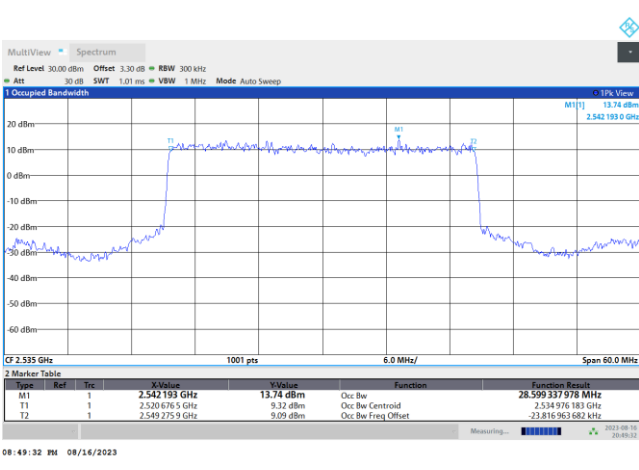
256QAM





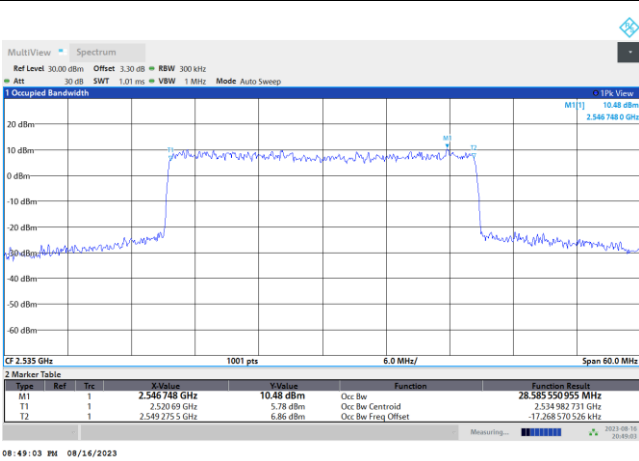
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

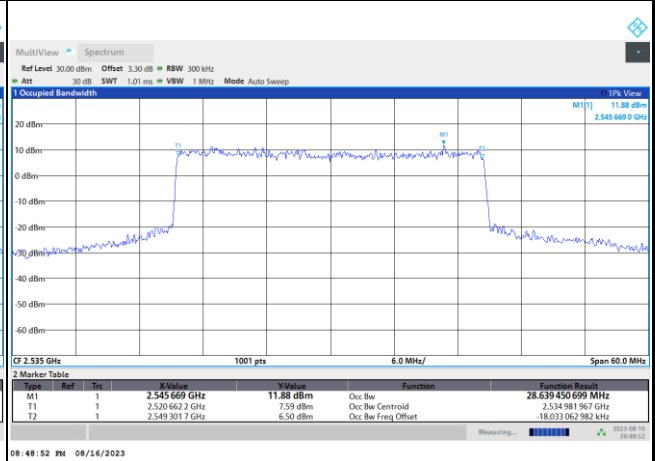


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

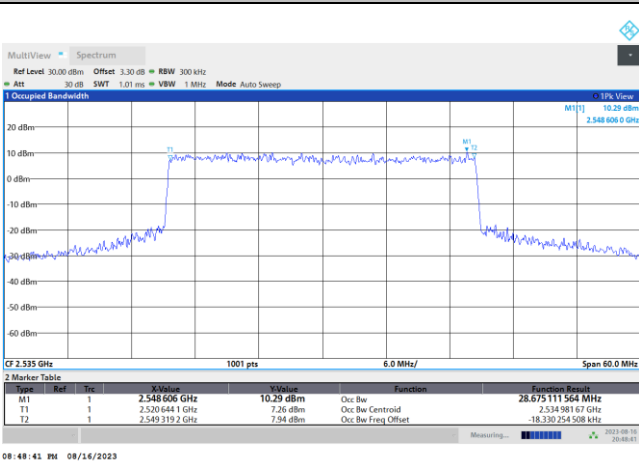
QPSK



16QAM



64QAM



256QAM

