



FCC RADIO TEST REPORT

FCC ID : UZ7MC345B
Equipment : Mobile Computer
Brand Name : ZEBRA
Model Name : MC345B
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Oct. 25, 2024 and testing was performed from Nov. 07, 2024 to Jan. 17, 2025. 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 and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4O2225D	01	Initial issue of report	Feb. 13, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Pass	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	2.13 dB under the limit at 7153.00 MHz

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/manufacture 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: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Computer
Brand Name	ZEBRA
Model Name	MC345B
FCC ID	UZ7MC345B
Sample 1	SKU 12 (Brick+SE5800+29 Keypad)
Sample 2	SKU 4(Brick+SE5500+47 Keypad)
Sample 3	SKU 1(Gun+SE4770+38 Keypad)
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	EV
SW Version	14-10-10.00-UG-U00-PRD-NEM-04
MFD	14SEP24
EUT Stage	Identical Prototype

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

Support band and evaluated information	
Supported band	n77, n78
Evaluated and Tested band	n77
Band covered information	Wider operating frequency band range covers narrower one when the power is worse as follows: ■ n77 cover n78

TDD band Power Class				
	SISO PC3	MIMO PC3		
n77	V	V		
n78	V	V		



Stage	MC34 WWAN SKU list						
Configuration	SKU1	SKU2	SKU4	SKU5	SKU7	SKU8	SKU12
WW/WL	WWAN	WWAN	WWAN	WWAN	WWAN	WWAN	WWAN
Form Factor	FA	FA	FA	FA	FA	FA	FA
SKU	Prem	Prem	Prem	Prem+	Prem+	Prem+	Prem+
Brick / Gun	Gun	Gun	Brick	Gun	Gun	Brick	Brick
DDR size	6GB	6GB	6GB	6GB	6GB	6GB	6GB
UFS size	64GB	64GB	64GB	128GB	128GB	128GB	128GB
Scan engine	SE4770	SE5800	SE5500	SE5500	SE5800	SE5800	SE5800
FF Camera	None	None	None	5MP (PN)	5MP (PN)	5MP (PN)	5MP (PN)
RF Camera				13MP (PN)	13MP (PN)	13MP (PN)	13MP (PN)
Keypad	38	38	47	38	47	38	29
Battery	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh
Region (ROW or NA)	RW	RW	RW	RW	RW	RW	RW

Specification of Accessories				
Adapter 1 USB Wall Charger	Brand Name	Zebra	Model Number	PWR-WUA5V12W0US
Battery 1 Standard Battery (7000mAh)	Brand Name	Zebra	Model Number	BT-000375
Battery 2 Standard Battery (7000mAh)	Brand Name	Zebra	Model Number	BT-000375
Battery 3 BLE Battery (7000mAh)	Brand Name	Zebra	Model Number	BT-000444
Battery 4 BLE Battery (7000mAh)	Brand Name	Zebra	Model Number	BT-000375B
Type C USB Cable	Brand Name	Zebra	Model Number	CBL-TC5X-USBC2A-01
USB Cable Cup	Brand Name	Zebra	Model Number	CBL-MC33-USBCHG-01
Soft Holster for Gun Type	Brand Name	Zebra	Model Number	SG-MC3021212-01R
Soft Holster for Brick Type	Brand Name	Zebra	Model Number	SG-MC3X-SHLSTB-01
USB-C PTT Headset	Brand Name	Zebra	Model Number	HDST-USBC-PTT1-01
USB-C to 3.5mm adapter	Brand Name	Zebra	Model Number	ADP-USBC-35MM1-01
3.5mm To Quick Disconnect (QD) Adapter Cable	Brand Name	Zebra	Model Number	ADP-35M-QDCBL1-01
3.5mm PTT Headset	Brand Name	Zebra	Model Number	HDST-35MM-PTT1-01
3.5mm PTT HS2100 Headset	Brand Name	Zebra	Model Number	HS2100
Quick Disconnect (QD) Cable	Brand Name	Zebra	Model Number	CBL-HS2100-QDC1-01

Supported Unit Used in Test Configuration and System				
Bluetooth Headset	Brand Name	Zebra	Model Number	HS3100

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency	5G NR n77: 3300 MHz ~4200 MHz 5G NR n78: 3300 MHz ~3800 MHz
Bandwidth	5G NR n77: 10 MHz / 15 MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz 5G NR n78: 10 MHz / 15 MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	<SISO Mode> 5G NR n77: 21.63 dBm 5G NR n78: 21.49 dBm <MIMO Mode> 5G NR n77: 20.29 dBm 5G NR n78: 20.17 dBm
Antenna Type	Main Antenna: <Ant. 8>: Monopole Antenna <Ant. 9>: Monopole Antenna SRS Antenna: <Ant. 3>: PIFA Antenna <Ant. 4>: PIFA Antenna
Antenna Type / Antenna Gain	Main Antenna: <Ant. 8>: 5G NR n77: -1.32 dBi 5G NR n78: -1.32 dBi <Ant. 9>: 5G NR n77: -1.7 dBi 5G NR n78: -1.7 dBi SRS Antenna: <Ant. 3>: 5G NR n77: -2.08 dBi 5G NR n78: -2.08 dBi <Ant. 4>: 5G NR n77: -2.55 dBi 5G NR n78: -2.55 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	George Chen
Temperature (°C)	21.3~24
Relative Humidity (%)	52~58

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. 03CH21-HY (TAF Code: 3786)
Test Engineer	Fred Tseng, Ray Lung and Sky Chang
Temperature (°C)	18~26
Relative Humidity (%)	50~70
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 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ 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.

Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM PI/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

<SISO Mode>

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E	20 MHz	Outer_Full	M
Bandwidth	A,F,G,H,I	All	Outer_Full	M
Mask	A, B, C, D, E,F	All	Outer_1RB Outer_Full	L, M, H
CSE	B	10 MHz	Inner_1RB	L, M, H
Frequency Stability	A	20 MHz	Outer_Full	M
RSE	A	100 MHz	Inner_1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. All the radiated test cases were performed with Battery 1 Standard Battery (7000mAh).
4. One representative bandwidth is selected to perform PAR and frequency stability.
5. Device 5G NR support SA &NSA Mode, are verified and the worst case is SA mode. Therefore, the report only performed SA test results.
6. For 5G NR n77/78 support Antenna 8 (Main Ant.) and Antenna 3&4&9 (SRS Ant.); Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna 8. Therefore, the report only performed Antenna 8 test results.
7. The test country code is set to MCC 310.

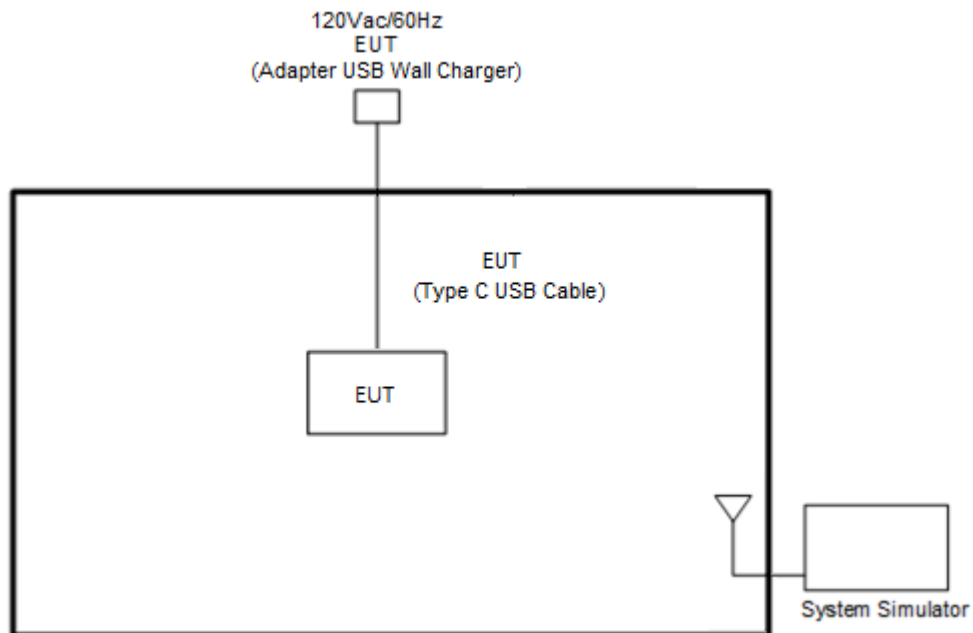
<MIMO Mode>

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	F, G, H, I	All	1, Half, Full	L, M, H
EIRP	F, G, H, I	All	1, Half, Full	L, M, H
PAR	F, G, H, I	20 MHz	Outer_Full	M
Bandwidth	F, G, H, I	All	Outer_Full	M
Mask	F, G, H, I	All	Outer_1RB Outer_Full	L, M, H
CSE	F	10 MHz	Inner_1RB	L, M, H
Frequency Stability	F	20 MHz	Outer_Full	M
RSE	F	100 MHz	Inner_1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
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5. Device 5G NR support SA &NSA Mode, are verified and the worst case is SA mode. Therefore, the report only performed SA test results.
6. The test country code is set to MCC 310.

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	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 :

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

2.5 Frequency List of Low/Middle/High Channels

5G NR n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	640000	641666	643332
	Frequency	3600	3624.99	3649.98
90	Channel	639668	641666	643666
	Frequency	3595.02	3624.99	3654.99
80	Channel	639334	641666	644000
	Frequency	3590.01	3624.99	3660
70	Channel	639000	641666	644332
	Frequency	3585	3624.99	3664.98
60	Channel	638668	641666	644666
	Frequency	3580.02	3624.99	3669.99
50	Channel	638334	641666	645000
	Frequency	3575.01	3624.99	3675
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

5G NR n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	640000	641666	643332
	Frequency	3600	3624.99	3649.98
90	Channel	639668	641666	643666
	Frequency	3595.02	3624.99	3654.99
80	Channel	639334	641666	644000
	Frequency	3590.01	3624.99	3660
70	Channel	639000	641666	644332
	Frequency	3585	3624.99	3664.98
60	Channel	638668	641666	644666
	Frequency	3580.02	3624.99	3669.99
50	Channel	638334	641666	645000
	Frequency	3575.01	3624.99	3675
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637666	641666	645666
	Frequency	3564.99	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

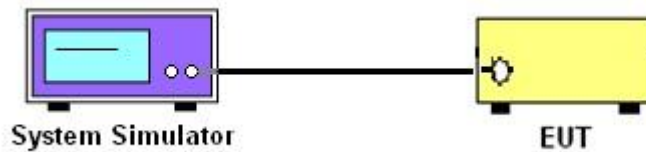
3 Conducted Test Items

3.1 Measuring Instruments

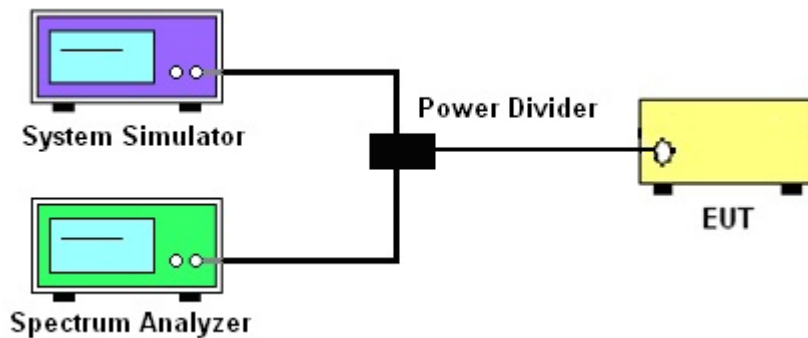
See list of measuring instruments of this test report.

3.1.1 Test Setup

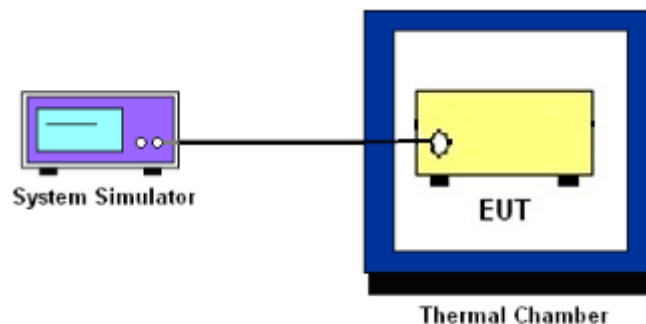
3.1.2 Conducted Output Power



3.1.3 EIRP, 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

3.2.1 Description of the Conducted Output Power 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.

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 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for 5G NR n77, n78.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark:

1. Total channel power is complied with EIRP limit 23dBm/10MHz.
2. The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.5 Occupied Bandwidth

3.5.1 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.

The occupied bandwidth shall not exceed the equipment's channel bandwidth, which is declared by the manufacturer.

3.5.2 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.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 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. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 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 -40dBm/MHz.
10. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 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.

3.8.3 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 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

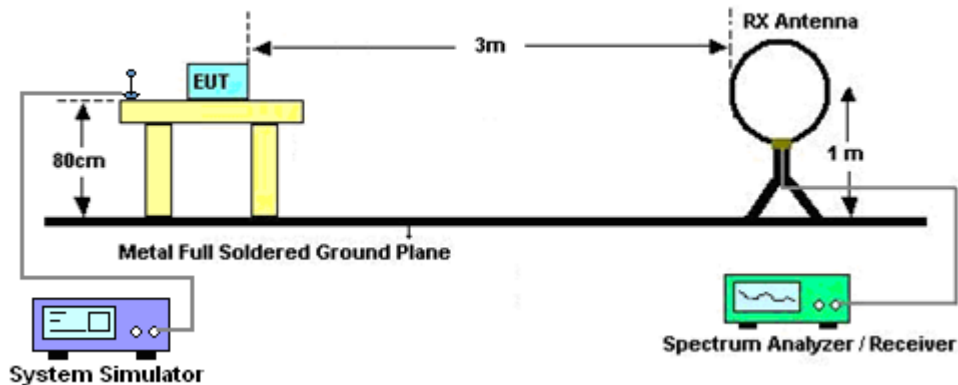
4 Radiated Test Items

4.1 Measuring Instruments

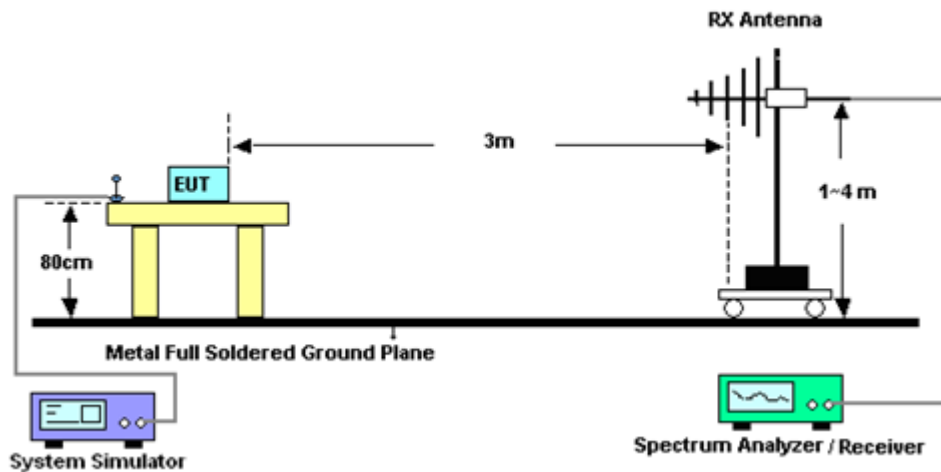
See list of measuring instruments of this test report.

4.2 Test Setup

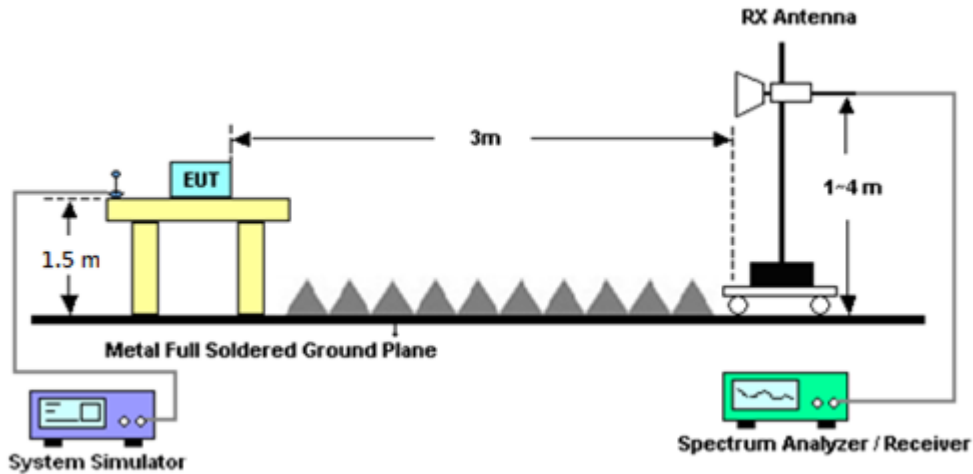
For radiated emissions below 30MHz



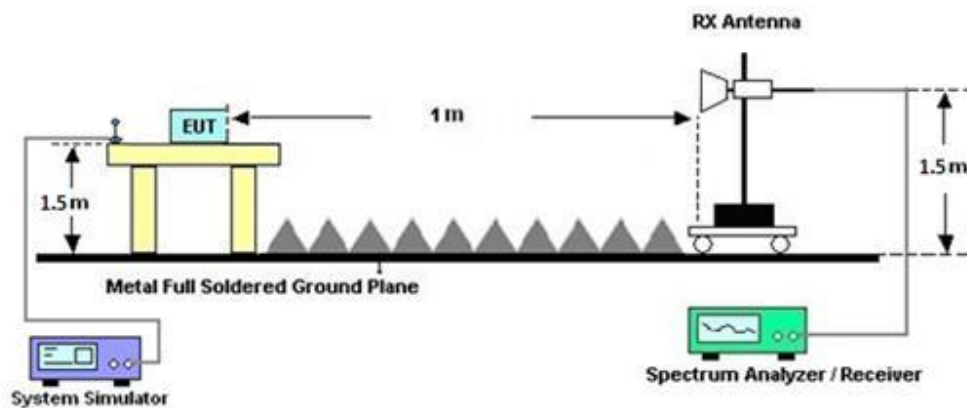
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.3 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.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

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 -40dBm / MHz .

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

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77$$
, where d is the distance at which field strength limit is specified in the rules.
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



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	Aug. 29, 2024	Nov. 20, 2024~ Dec. 31, 2024	Aug. 28, 2025	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00800N1D01N -06	41912 & 05	30MHz~1GHz	Feb. 04, 2024	Nov. 20, 2024~ Dec. 31, 2024	Feb. 03, 2025	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18E N	1GHz~18GHz	Jul. 11, 2024	Nov. 20, 2024~ Dec. 31, 2024	Jul. 10, 2025	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Nov. 20, 2024~ Dec. 31, 2024	Jun. 23, 2025	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 14, 2024	Nov. 20, 2024~ Dec. 31, 2024	Jul. 13, 2025	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 27, 2024	Nov. 20, 2024~ Dec. 31, 2024	Sep. 26, 2025	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Nov. 20, 2024~ Dec. 31, 2024	Sep. 01, 2025	Radiation (03CH21-HY)
Spectrum Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 06, 2024	Nov. 20, 2024~ Dec. 31, 2024	Sep. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Nov. 20, 2024~ Dec. 31, 2024	Mar. 05, 2025	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,80 4612/2,8039 54/2	30MHz~40GHz	Aug. 12, 2024	Nov. 20, 2024~ Dec. 31, 2024	Aug. 11, 2025	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2024	Nov. 20, 2024~ Dec. 31, 2024	Oct. 20, 2025	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Nov. 20, 2024~ Dec. 31, 2024	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 20, 2024~ Dec. 31, 2024	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 20, 2024~ Dec. 31, 2024	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Nov. 20, 2024~ Dec. 31, 2024	N/A	Radiation (03CH21-HY)
DC Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Feb. 19, 2024	Nov. 07, 2024~ Jan. 17, 2025	Feb. 18, 2025	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Oct. 07, 2024	Nov. 07, 2024~ Jan. 17, 2025	Oct. 06, 2025	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Dec. 13, 2023	Nov. 07, 2024~ Dec. 11, 2024	Dec. 12, 2024	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Dec. 10, 2024	Dec. 12, 2024~ Jan. 17, 2025	Dec. 09, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 14, 2024	Nov. 07, 2024~ Jan. 17, 2025	Mar. 13, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116725	LTE	Oct. 17, 2024	Nov. 07, 2024~ Jan. 17, 2025	Oct. 16, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 20, 2024	Nov. 07, 2024~ Jan. 17, 2025	Oct. 19, 2025	Conducted (TH03-HY)
Coupler	MVE	MVE-4816-10	A400024	N/A	Jun. 27, 2024	Nov. 07, 2024~ Jan. 17, 2025	Jun. 26, 2025	Conducted (TH03-HY)
RF Cable	MVE	MCBL-LL403P. 50	E80002C	9KHz~40GHz	Aug. 23, 2024	Nov. 07, 2024~ Jan. 17, 2025	Aug. 22, 2025	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV30 44_20231106	N/A	Conducted Test Item	N/A	Nov. 07, 2024~ Jan. 17, 2025	N/A	Conducted (TH03-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.60 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.00 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.30 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power and EIRP)

<SISO Mode>

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	21.18	21.15	21.46	20.27	0.1064		
10	1	22		21.19	21.13	21.50				
10	12	6		21.28	21.23	21.59				
10	1	0		17.80	17.57	17.95				
10	1	23		17.65	17.71	17.96				
10	24	0		12.83	12.71	12.97				
10	1	1	QPSK	21.19	21.17	21.43				
10	1	22		21.40	21.20	21.49				
10	12	6		21.28	21.22	21.54				
10	1	0		17.68	17.58	17.93				
10	1	23		17.65	17.71	17.97				
10	24	0		12.29	12.21	12.46				
10	1	1	16-QAM	20.18	20.28	20.56	19.24	0.0839		
10	1	1	64-QAM	18.64	18.62	18.98				
10	1	1	256-QAM	16.54	16.45	16.70				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	21.33	21.12	21.31	20.22	0.1052		
15	1	36		21.35	21.30	21.47				
15	18	9		21.43	21.37	21.49				
15	1	0		17.74	17.73	17.87				
15	1	37		17.81	17.79	17.95				
15	36	0		12.85	12.81	12.99				
15	1	1	QPSK	21.23	21.21	21.29				
15	1	36		21.31	21.29	21.49				
15	18	9		21.47	21.24	21.54				
15	1	0		17.80	17.70	17.79				
15	1	37		17.79	17.77	17.91				
15	36	0		12.29	12.27	12.52				
15	1	1	16-QAM	20.35	20.36	20.41	19.09	0.0811		
15	1	1	64-QAM	18.86	18.73	18.88				
15	1	1	256-QAM	16.62	16.51	16.58				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.34	21.36	21.43	20.14	0.1033		
20	1	49		21.27	21.23	21.46				
20	25	12		21.45	21.34	21.46				
20	1	0		17.88	17.79	17.88				
20	1	50		17.78	17.74	17.95				
20	50	0		12.84	12.77	12.92				
20	1	1	QPSK	21.41	21.30	21.38				
20	1	49		21.31	21.20	21.32				
20	25	12		21.45	21.32	21.39				
20	1	0		17.90	17.77	17.88				
20	1	50		17.79	17.68	17.92				
20	50	0		12.31	12.21	12.44				
20	1	1	16-QAM	20.52	20.42	20.61	19.29	0.0849		
20	1	1	64-QAM	18.97	18.88	18.92				
20	1	1	256-QAM	16.71	16.62	16.68				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	21.40	21.29	21.28	20.31	0.1074		
30	1	76		21.21	21.30	21.63				
30	36	18		21.50	21.35	21.57				
30	1	0		17.94	17.79	17.81				
30	1	77		17.75	17.74	18.03				
30	75	0		12.81	12.77	13.00				
30	1	1	QPSK	21.42	21.34	21.31				
30	1	76		21.26	21.29	21.53				
30	36	18		21.36	21.39	21.53				
30	1	0		17.87	17.81	17.82				
30	1	77		17.83	17.92	18.06				
30	75	0		12.22	12.27	12.42				
30	1	1	16-QAM	20.53	20.37	20.51	19.21	0.0834		
30	1	1	64-QAM	18.98	18.82	18.91				
30	1	1	256-QAM	16.70	16.61	16.59				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	21.60	21.52	21.50	20.30	0.1072		
40	1	104		21.39	21.35	21.59				
40	50	25		21.52	21.41	21.51				
40	1	0		18.05	17.98	18.00				
40	1	105		17.84	17.76	18.03				
40	100	0		12.79	12.84	12.95				
40	1	1	QPSK	21.62	21.55	21.56				
40	1	104		21.37	21.37	21.60				
40	50	25		21.45	21.39	21.46				
40	1	0		18.07	17.90	17.98				
40	1	105		17.82	17.82	18.08				
40	100	0		12.37	12.33	12.40				
40	1	1	16-QAM	20.78	20.59	20.64	19.46	0.0883		
40	1	1	64-QAM	19.14	19.01	19.00				
40	1	1	256-QAM	16.92	16.86	16.84				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	21.20	21.16	21.04	19.93	0.0984		
50	1	131		20.93	20.97	21.11				
50	64	32		21.16	21.18	21.25				
50	1	0		17.69	17.60	17.58				
50	1	132		17.42	17.52	17.61				
50	128	0		12.61	12.61	12.61				
50	1	1	QPSK	21.21	21.16	21.04				
50	1	131		20.92	20.96	21.05				
50	64	32		21.17	21.18	21.20				
50	1	0		17.69	17.62	17.47				
50	1	132		17.40	17.52	17.60				
50	128	0		12.16	12.09	12.10				
50	1	1	16-QAM	20.34	20.24	20.23	19.02	0.0798		
50	1	1	64-QAM	18.80	18.73	18.55				
50	1	1	256-QAM	16.53	16.43	16.33				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



FCC RADIO TEST REPORT

Report No. : FG402225D

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	21.17	21.12	21.05	19.92	0.0982		
60	1	160		20.95	21.09	21.24				
60	81	40		21.17	21.14	21.15				
60	1	0		17.66	17.53	17.45				
60	1	161		17.45	17.52	17.73				
60	162	0		12.66	12.58	12.67				
60	1	1	QPSK	21.15	21.13	20.99				
60	1	160		21.03	21.08	21.22				
60	81	40		21.20	21.17	21.12				
60	1	0		17.69	17.63	17.50				
60	1	161		17.47	17.53	17.70				
60	162	0		12.11	12.01	12.14				
60	1	1	16-QAM	20.33	20.26	20.16	19.01	0.0796		
60	1	1	64-QAM	18.79	18.70	18.48				
60	1	1	256-QAM	16.51	16.45	16.30				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
70	1	1	PI/2 BPSK	21.26	21.13	21.09	20.04	0.1009		
70	1	187		20.81	20.98	21.36				
70	90	45		21.18	21.23	21.18				
70	1	0		17.74	17.59	17.61				
70	1	188		17.29	17.48	17.83				
70	180	0		12.58	12.64	12.68				
70	1	1	QPSK	21.28	21.07	21.12				
70	1	187		20.90	20.94	21.24				
70	90	45		21.16	21.17	21.26				
70	1	0		17.79	17.61	17.53				
70	1	188		17.30	17.47	17.83				
70	180	0		12.06	12.14	12.17				
70	1	1	16-QAM	20.46	20.24	20.36	19.14	0.0820		
70	1	1	64-QAM	18.89	18.63	18.62				
70	1	1	256-QAM	16.55	16.30	16.35				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	21.18	21.11	20.96	19.88	0.0973		
80	1	215		20.90	21.13	21.18				
80	108	54		21.12	21.20	21.11				
80	1	0		17.63	17.56	17.46				
80	1	216		17.48	17.56	17.60				
80	216	0		12.61	12.60	12.64				
80	1	1	QPSK	21.07	21.07	20.99				
80	1	215		20.88	21.09	21.09				
80	108	54		21.17	21.20	21.12				
80	1	0		17.57	17.52	17.46				
80	1	216		17.39	17.58	17.60				
80	216	0		12.09	12.13	12.13				
80	1	1	16-QAM	20.34	20.26	20.06	19.02	0.0798		
80	1	1	64-QAM	18.65	18.63	18.64				
80	1	1	256-QAM	16.48	16.38	16.42				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	21.25	21.13	20.99	20.02	0.1005		
90	1	243		20.96	21.16	21.26				
90	120	60		21.16	21.18	21.18				
90	1	0		17.73	17.54	17.45				
90	1	244		17.42	17.64	17.82				
90	243	0		12.52	12.63	12.73				
90	1	1	QPSK	21.27	21.08	20.96				
90	1	243		20.92	21.14	21.34				
90	120	60		21.12	21.20	21.17				
90	1	0		17.67	17.58	17.43				
90	1	244		17.36	17.60	17.75				
90	243	0		12.07	12.13	12.19				
90	1	1	16-QAM	20.35	20.23	20.10	19.03	0.0800		
90	1	1	64-QAM	18.83	18.62	18.60				
90	1	1	256-QAM	16.49	16.37	16.27				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n77_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	21.13	20.99	21.18	20.04	0.1009		
100	1	271		21.09	21.04	20.97				
100	135	67		21.12	21.36	21.15				
100	1	0		17.90	17.56	17.55				
100	1	272		17.35	17.53	17.61				
100	270	0		12.62	12.74	12.63				
100	1	1	QPSK	21.20	21.19	21.13				
100	1	271		20.90	21.25	20.95				
100	135	67		21.31	21.10	21.05				
100	1	0		17.70	17.49	17.59				
100	1	272		17.33	17.55	17.35				
100	270	0		12.20	12.10	12.01				
100	1	1	16-QAM	20.39	20.23	20.22	19.07	0.0807		
100	1	1	64-QAM	18.71	18.45	18.73				
100	1	1	256-QAM	16.35	16.09	16.25				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	21.27	21.00	21.24	20.16	0.1038		
10	1	22		21.26	21.19	21.28				
10	12	6		21.48	21.22	21.39				
10	1	0		17.84	17.59	17.76				
10	1	23		17.76	17.56	17.75				
10	24	0		12.78	12.71	12.81				
10	1	1	QPSK	21.25	21.09	21.26				
10	1	22		21.27	21.09	21.30				
10	12	6		21.37	21.15	21.34				
10	1	0		17.85	17.63	17.74				
10	1	23		17.76	17.63	17.77				
10	24	0		12.25	12.17	12.31				
10	1	1	16-QAM	20.37	20.22	20.39	19.07	0.0807		
10	1	1	64-QAM	18.82	18.66	18.81				
10	1	1	256-QAM	16.58	16.36	16.53				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	21.33	21.19	21.23	20.07	0.1016		
15	1	36		21.26	21.19	21.36				
15	18	9		21.37	21.34	21.39				
15	1	0		17.84	17.64	17.67				
15	1	37		17.72	17.69	17.75				
15	36	0		12.74	12.67	12.78				
15	1	1	QPSK	21.28	21.20	21.22				
15	1	36		21.25	21.17	21.31				
15	18	9		21.25	21.29	21.38				
15	1	0		17.77	17.71	17.74				
15	1	37		17.70	17.69	17.80				
15	36	0		12.27	12.19	12.30				
15	1	1	16-QAM	20.45	20.36	20.44	19.13	0.0818		
15	1	1	64-QAM	18.85	18.71	18.75				
15	1	1	256-QAM	16.62	16.50	16.46				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	21.36	21.24	21.18	20.06	0.1014		
20	1	49		21.36	21.15	21.30				
20	25	12		21.38	21.29	21.38				
20	1	0		17.78	17.66	17.66				
20	1	50		17.77	17.62	17.75				
20	50	0		12.79	12.64	12.77				
20	1	1	QPSK	21.31	21.20	21.15				
20	1	49		21.31	21.16	21.26				
20	25	12		21.34	21.24	21.38				
20	1	0		17.78	17.66	17.68				
20	1	50		17.78	17.63	17.75				
20	50	0		12.34	12.12	12.28				
20	1	1	16-QAM	20.48	20.32	20.28	19.16	0.0824		
20	1	1	64-QAM	18.81	18.81	18.73				
20	1	1	256-QAM	16.61	16.51	16.45				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	21.38	21.32	21.24	20.11	0.1026		
30	1	76		21.36	21.25	21.37				
30	36	18		21.43	21.25	21.36				
30	1	0		17.82	17.79	17.77				
30	1	77		17.78	17.81	17.81				
30	75	0		12.79	12.73	12.78				
30	1	1	QPSK	21.43	21.37	21.29				
30	1	76		21.33	21.25	21.40				
30	36	18		21.29	21.26	21.32				
30	1	0		17.91	17.78	17.76				
30	1	77		17.84	17.71	17.77				
30	75	0		12.31	12.19	12.27				
30	1	1	16-QAM	20.57	20.49	20.41	19.25	0.0841		
30	1	1	64-QAM	18.94	18.82	18.68				
30	1	1	256-QAM	16.50	16.57	16.55				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	21.46	21.29	21.33	20.17	0.1040		
40	1	104		21.38	21.30	21.42				
40	50	25		21.38	21.27	21.31				
40	1	0		18.00	17.89	17.82				
40	1	105		17.87	17.75	17.82				
40	100	0		12.87	12.74	12.70				
40	1	1	QPSK	21.49	21.40	21.41				
40	1	104		21.43	21.24	21.39				
40	50	25		21.30	21.22	21.30				
40	1	0		18.00	17.85	17.85				
40	1	105		17.84	17.72	17.90				
40	100	0		12.35	12.19	12.15				
40	1	1	16-QAM	20.51	20.49	20.59	19.27	0.0845		
40	1	1	64-QAM	19.08	19.01	18.88				
40	1	1	256-QAM	16.71	16.75	16.62				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	21.19	21.00	21.03	19.87	0.0971		
50	1	131		20.82	20.98	20.92				
50	64	32		21.15	21.16	21.00				
50	1	0		17.68	17.47	17.47				
50	1	132		17.32	17.42	17.36				
50	128	0		12.50	12.53	12.40				
50	1	1	QPSK	21.17	20.97	21.00				
50	1	131		20.85	20.96	20.93				
50	64	32		21.15	21.13	21.00				
50	1	0		17.68	17.51	17.48				
50	1	132		17.32	17.45	17.35				
50	128	0		12.01	12.00	11.91				
50	1	1	16-QAM	20.34	20.12	20.08	19.02	0.0798		
50	1	1	64-QAM	18.73	18.51	18.55				
50	1	1	256-QAM	16.46	16.30	16.23				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	21.11	21.03	20.90	19.90	0.0977		
60	1	160		20.89	21.04	21.06				
60	81	40		21.22	21.17	21.07				
60	1	0		17.57	17.48	17.38				
60	1	161		17.44	17.44	17.53				
60	162	0		12.55	12.57	12.42				
60	1	1	QPSK	21.15	20.96	20.94				
60	1	160		20.98	20.97	21.02				
60	81	40		21.17	21.14	21.06				
60	1	0		17.60	17.49	17.39				
60	1	161		17.39	17.49	17.51				
60	162	0		12.05	12.02	11.92				
60	1	1	16-QAM	20.26	20.07	20.01	18.94	0.0783		
60	1	1	64-QAM	18.70	18.54	18.46				
60	1	1	256-QAM	16.43	16.30	16.13				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
70	1	1	PI/2 BPSK	21.16	21.08	20.97	19.91	0.0979		
70	1	187		20.82	20.87	21.14				
70	90	45		21.15	21.15	21.12				
70	1	0		17.64	17.56	17.41				
70	1	188		17.27	17.33	17.58				
70	180	0		12.55	12.52	12.54				
70	1	1	QPSK	21.23	21.10	20.96				
70	1	187		20.82	20.86	21.08				
70	90	45		21.14	21.15	21.17				
70	1	0		17.65	17.54	17.45				
70	1	188		17.29	17.33	17.60				
70	180	0		12.08	11.96	12.05				
70	1	1	16-QAM	20.32	20.24	20.07	19.00	0.0794		
70	1	1	64-QAM	18.73	18.72	18.51				
70	1	1	256-QAM	16.41	16.40	16.26				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	21.13	21.08	21.02	19.86	0.0968		
80	1	215		20.87	20.90	21.04				
80	108	54		21.18	21.08	21.10				
80	1	0		17.59	17.52	17.44				
80	1	216		17.35	17.47	17.53				
80	216	0		12.55	12.46	12.51				
80	1	1	QPSK	21.10	21.04	21.01				
80	1	215		20.78	21.01	21.05				
80	108	54		21.15	21.10	21.13				
80	1	0		17.56	17.53	17.48				
80	1	216		17.28	17.37	17.52				
80	216	0		12.11	11.96	12.01				
80	1	1	16-QAM	20.31	20.17	20.17	18.99	0.0793		
80	1	1	64-QAM	18.65	18.61	18.60				
80	1	1	256-QAM	16.40	16.30	16.24				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	21.18	20.96	20.92	19.86	0.0968		
90	1	243		20.89	21.06	21.18				
90	120	60		21.02	21.13	21.10				
90	1	0		17.62	17.56	17.41				
90	1	244		17.28	17.42	17.63				
90	243	0		12.51	12.52	12.55				
90	1	1	QPSK	21.17	21.00	20.98				
90	1	243		20.83	20.96	21.14				
90	120	60		21.15	21.12	21.04				
90	1	0		17.64	17.44	17.41				
90	1	244		17.30	17.42	17.62				
90	243	0		11.99	11.99	12.07				
90	1	1	16-QAM	20.34	20.17	20.11	19.02	0.0798		
90	1	1	64-QAM	18.68	18.55	18.47				
90	1	1	256-QAM	16.43	16.37	16.21				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n78_Part96 Maximum Average Power [dBm] (GT - LC = -1.32 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	21.17	20.91	20.96	19.85	0.0966		
100	1	271		20.83	20.82	20.79				
100	135	67		21.05	21.00	20.86				
100	1	0		17.72	17.38	17.49				
100	1	272		17.37	17.34	17.34				
100	270	0		12.45	12.49	12.44				
100	1	1	QPSK	21.07	21.00	20.92				
100	1	271		20.77	20.86	20.82				
100	135	67		21.04	21.09	20.95				
100	1	0		17.63	17.38	17.43				
100	1	272		17.21	17.54	17.37				
100	270	0		12.07	11.87	12.03				
100	1	1	16-QAM	20.27	19.88	20.08	18.95	0.0785		
100	1	1	64-QAM	18.77	18.44	18.44				
100	1	1	256-QAM	16.24	16.02	16.23				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



<MIMO Mode>

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	16.96	16.91	17.18	16.68	17.16	17.23	19.83	20.05	20.22	18.97	0.0789
10	1	22		16.91	16.91	17.33	16.67	17.18	17.22	19.80	20.06	20.29		
10	12	6		17.04	17.01	17.14	16.79	17.14	17.31	19.93	20.09	20.24		
10	1	0		15.05	14.81	15.29	14.80	15.25	15.26	17.94	18.05	18.29		
10	1	23		15.07	14.89	15.28	14.85	15.16	15.34	17.97	18.04	18.32		
10	24	0		7.40	7.41	7.66	7.25	7.65	7.74	10.34	10.54	10.71		
10	1	1	16-QAM	16.64	16.21	16.77	16.45	16.78	16.50	19.56	19.51	19.65	18.33	0.0681
10	1	1	64-QAM	15.12	14.76	15.18	14.72	15.36	15.13	17.93	18.08	18.17		
10	1	1	256-QAM	11.87	11.95	12.12	11.87	12.07	12.18	14.88	15.02	15.16		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	16.92	17.06	17.08	16.81	17.07	17.10	19.88	20.08	20.10	18.93	0.0782
15	1	36		16.94	17.01	17.24	17.00	17.30	17.23	19.98	20.17	20.25		
15	19	9		17.02	17.01	17.15	16.89	17.14	17.25	19.97	20.09	20.21		
15	1	0		14.91	15.05	15.10	15.07	15.10	15.31	18.00	18.09	18.22		
15	1	37		15.03	15.05	15.26	14.98	15.32	15.36	18.02	18.20	18.32		
15	38	0		7.46	7.44	7.63	7.46	7.67	7.71	10.47	10.57	10.68		
15	1	1	16-QAM	16.30	16.47	16.60	16.51	16.42	16.53	19.42	19.46	19.58	18.26	0.0670
15	1	1	64-QAM	14.76	14.99	15.20	14.93	15.00	15.15	17.86	18.01	18.19		
15	1	1	256-QAM	11.98	11.92	12.01	11.95	12.14	12.35	14.98	15.04	15.19		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	17.18	17.07	17.19	16.95	17.15	17.23	20.08	20.12	20.22	18.90	0.0776
20	1	49		17.19	16.97	17.07	16.84	17.07	17.00	20.03	20.03	20.05		
20	25	12		17.08	16.93	17.04	16.97	17.14	17.17	20.04	20.05	20.12		
20	1	0		15.31	15.13	15.23	14.85	15.15	15.22	18.10	18.15	18.24		
20	1	50		15.07	15.01	15.13	14.94	15.17	15.16	18.02	18.10	18.16		
20	51	0		7.46	7.39	7.47	7.34	7.56	7.66	10.41	10.49	10.58		
20	1	1	16-QAM	16.85	16.72	16.73	16.27	16.49	16.57	19.58	19.62	19.66	18.34	0.0682
20	1	1	64-QAM	15.30	15.17	15.19	14.91	15.02	15.13	18.12	18.11	18.17		
20	1	1	256-QAM	12.28	11.92	12.00	11.93	12.35	12.47	15.12	15.15	15.25		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	17.20	16.96	17.09	16.92	17.04	17.15	20.07	20.01	20.13	18.95	0.0785
30	1	76		17.02	17.17	17.39	17.17	17.05	17.12	20.11	20.12	20.27		
30	39	19		17.00	17.01	17.12	16.92	17.07	17.28	19.97	20.05	20.21		
30	1	0		15.20	15.11	15.11	14.93	15.20	15.25	18.08	18.17	18.19		
30	1	77		15.11	15.06	15.37	14.99	15.18	15.39	18.06	18.13	18.39		
30	78	0		7.38	7.34	7.50	7.30	7.63	7.75	10.35	10.50	10.64		
30	1	1	16-QAM	16.75	16.44	16.58	16.27	16.42	16.56	19.53	19.44	19.58	18.26	0.0670
30	1	1	64-QAM	15.21	15.05	15.07	14.82	15.01	15.20	18.03	18.04	18.15		
30	1	1	256-QAM	12.17	12.02	12.12	11.91	12.36	12.18	15.05	15.20	15.16		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	17.29	17.02	17.23	16.95	17.28	17.31	20.13	20.16	20.28	18.96	0.0787
40	1	104		17.14	16.93	17.29	17.02	17.29	17.11	20.09	20.12	20.21		
40	53	26		17.03	17.00	17.05	16.98	17.07	17.07	20.02	20.05	20.07		
40	1	0		15.39	15.05	15.28	15.10	15.39	15.37	18.26	18.23	18.34		
40	1	105		15.13	15.02	15.28	14.97	15.34	15.24	18.06	18.19	18.27		
40	106	0		7.46	7.41	7.50	7.43	7.67	7.67	10.46	10.55	10.60		
40	1	1	16-QAM	17.00	16.45	16.75	16.41	16.88	16.70	19.73	19.68	19.74	18.42	0.0695
40	1	1	64-QAM	15.40	14.97	15.27	15.01	15.39	15.26	18.22	18.20	18.28		
40	1	1	256-QAM	12.42	12.28	12.10	12.15	12.21	12.54	15.30	15.26	15.34		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	16.96	16.86	16.66	16.62	16.75	16.87	19.80	19.82	19.78	18.55	0.0716
50	1	131		16.55	16.58	16.74	16.48	16.72	16.80	19.53	19.66	19.78		
50	67	33		16.71	16.72	16.80	16.67	16.84	16.92	19.70	19.79	19.87		
50	1	0		14.99	14.84	14.64	14.66	14.85	15.14	17.84	17.86	17.91		
50	1	132		14.53	14.67	14.65	14.67	14.87	14.98	17.61	17.78	17.83		
50	133	0		7.24	7.16	7.16	7.11	7.39	7.39	10.19	10.29	10.29		
50	1	1	16-QAM	16.54	16.46	16.29	16.07	16.22	16.46	19.32	19.35	19.39	18.07	0.0641
50	1	1	64-QAM	15.04	14.98	14.73	14.61	14.79	14.76	17.84	17.90	17.76		
50	1	1	256-QAM	12.08	12.00	11.83	11.73	11.92	11.92	14.92	14.97	14.89		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	16.95	16.72	16.70	16.65	16.86	16.74	19.81	19.80	19.73	18.54	0.0714
60	1	160		16.67	16.53	16.87	16.62	16.97	16.83	19.66	19.77	19.86		
60	81	40		16.73	16.72	16.69	16.73	16.86	16.85	19.74	19.80	19.78		
60	1	0		14.85	14.76	14.69	14.69	14.93	14.80	17.78	17.86	17.76		
60	1	161		14.68	14.59	14.92	14.70	15.06	14.96	17.70	17.84	17.95		
60	162	0		7.22	7.12	7.21	7.13	7.36	7.35	10.19	10.25	10.29		
60	1	1	16-QAM	16.56	16.27	16.30	16.05	16.40	16.12	19.32	19.35	19.22	18.03	0.0635
60	1	1	64-QAM	15.07	14.68	14.85	14.64	15.05	14.77	17.87	17.88	17.82		
60	1	1	256-QAM	12.03	11.73	11.80	11.72	12.07	11.77	14.89	14.91	14.80		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	16.79	16.63	16.61	16.55	16.66	16.79	19.68	19.66	19.71	18.60	0.0724
70	1	187		16.58	16.72	16.83	16.69	16.73	16.98	19.65	19.74	19.92		
70	95	47		16.73	16.66	16.82	16.63	16.92	17.00	19.69	19.80	19.92		
70	1	0		14.93	14.79	14.56	14.67	14.76	14.90	17.81	17.79	17.74		
70	1	188		14.58	14.68	14.84	14.67	14.84	15.09	17.64	17.77	17.98		
70	189	0		7.11	7.15	7.20	7.17	7.38	7.50	10.15	10.28	10.36		
70	1	1	16-QAM	16.38	16.51	16.00	16.23	16.08	16.53	19.32	19.31	19.28	18.00	0.0631
70	1	1	64-QAM	14.91	14.92	14.46	14.54	14.78	15.13	17.74	17.86	17.82		
70	1	1	256-QAM	12.08	11.93	11.66	11.60	11.85	12.04	14.86	14.90	14.86		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	16.79	16.74	16.56	16.56	16.61	16.78	19.69	19.69	19.68	18.54	0.0714
80	1	215		16.45	16.60	16.81	16.67	16.68	16.89	19.57	19.65	19.86		
80	109	54		16.76	16.73	16.71	16.83	16.92	16.85	19.81	19.84	19.79		
80	1	0		14.82	14.82	14.58	14.67	14.75	14.96	17.76	17.80	17.78		
80	1	216		14.61	14.74	14.78	14.80	14.96	15.05	17.72	17.86	17.93		
80	217	0		7.13	7.16	7.17	7.19	7.40	7.32	10.17	10.29	10.26		
80	1	1	16-QAM	16.36	16.21	16.23	16.01	15.98	16.31	19.20	19.11	19.28	17.96	0.0625
80	1	1	64-QAM	14.80	14.79	14.47	14.55	14.71	14.95	17.69	17.76	17.73		
80	1	1	256-QAM	11.83	11.68	11.66	11.84	11.90	12.04	14.85	14.80	14.86		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	16.81	16.64	16.60	16.44	16.58	16.66	19.64	19.62	19.64	18.65	0.0733
90	1	243		16.53	16.84	16.95	16.66	16.87	16.97	19.61	19.87	19.97		
90	123	61		16.69	16.69	16.76	16.76	16.90	16.87	19.74	19.81	19.83		
90	1	0		15.02	14.75	14.71	14.67	14.74	14.76	17.86	17.76	17.75		
90	1	244		14.61	14.90	15.05	14.79	15.10	14.94	17.71	18.01	18.01		
90	245	0		7.07	7.14	7.21	7.16	7.39	7.34	10.13	10.28	10.29		
90	1	1	16-QAM	16.34	16.24	16.23	15.97	16.02	16.32	19.17	19.14	19.29	17.97	0.0627
90	1	1	64-QAM	14.88	14.81	14.75	14.52	14.73	14.69	17.71	17.78	17.73		
90	1	1	256-QAM	12.05	11.66	11.68	11.64	11.97	12.05	14.86	14.83	14.88		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n77 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	16.67	16.69	16.63	16.46	16.48	16.78	19.58	19.60	19.72	18.57	0.0719
100	1	271		16.77	16.90	16.71	16.69	16.86	16.91	19.74	19.89	19.82		
100	137	68		16.73	16.63	16.61	16.79	16.81	16.81	19.77	19.73	19.72		
100	1	0		14.96	14.84	14.62	14.65	14.76	14.84	17.82	17.81	17.74		
100	1	272		14.74	14.94	14.85	14.91	14.95	15.06	17.84	17.96	17.97		
100	273	0		7.11	7.19	7.06	7.19	7.35	7.29	10.16	10.28	10.19		
100	1	1	16-QAM	16.29	16.30	16.08	15.95	16.20	16.41	19.13	19.26	19.26	17.94	0.0622
100	1	1	64-QAM	14.83	14.80	14.54	14.52	14.67	15.02	17.69	17.75	17.80		
100	1	1	256-QAM	12.05	11.88	11.86	11.62	11.70	11.78	14.85	14.80	14.83		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	16.91	16.87	16.91	16.70	16.95	17.00	19.82	19.92	19.97	18.65	0.0733
10	1	22		16.90	16.83	16.83	16.77	16.93	16.87	19.85	19.89	19.86		
10	12	6		16.83	16.85	16.80	16.76	16.99	17.00	19.81	19.93	19.91		
10	1	0		14.98	14.89	14.98	14.56	14.89	14.84	17.79	17.90	17.92		
10	1	23		14.90	14.80	15.01	14.63	14.91	14.89	17.78	17.87	17.96		
10	24	0		7.19	7.17	7.27	7.05	7.35	7.37	10.13	10.27	10.33		
10	1	1	16-QAM	16.59	16.25	16.47	16.04	16.31	16.32	19.33	19.29	19.41	18.09	0.0644
10	1	1	64-QAM	14.92	14.86	14.91	14.43	14.72	14.74	17.69	17.80	17.84		
10	1	1	256-QAM	11.93	11.86	11.95	11.44	11.86	11.92	14.70	14.87	14.95		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	16.99	16.94	16.78	16.68	16.98	16.91	19.85	19.97	19.86	18.65	0.0733
15	1	36		16.90	16.92	16.97	16.83	17.00	16.83	19.88	19.97	19.91		
15	19	9		16.98	16.88	16.86	16.73	17.01	16.95	19.87	19.96	19.92		
15	1	0		15.06	15.02	14.87	14.51	14.83	14.82	17.80	17.94	17.86		
15	1	37		14.91	14.87	14.96	14.74	15.01	15.04	17.84	17.95	18.01		
15	38	0		7.27	7.28	7.22	7.17	7.42	7.42	10.23	10.36	10.33		
15	1	1	16-QAM	16.57	16.54	16.40	16.14	16.31	16.33	19.37	19.44	19.38	18.12	0.0649
15	1	1	64-QAM	15.13	14.93	14.97	14.53	14.76	14.79	17.85	17.86	17.89		
15	1	1	256-QAM	12.06	11.86	11.99	11.62	11.96	11.80	14.86	14.92	14.91		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	17.05	16.85	16.92	16.79	16.99	17.01	19.93	19.93	19.98	18.71	0.0743
20	1	49		17.00	16.84	16.83	16.77	17.20	16.91	19.90	20.03	19.88		
20	25	12		16.92	16.96	16.80	16.89	16.97	16.98	19.92	19.98	19.90		
20	1	0		15.10	14.89	14.96	14.58	14.94	14.89	17.86	17.93	17.94		
20	1	50		14.94	14.75	14.89	14.70	15.07	14.92	17.83	17.92	17.92		
20	51	0		7.32	7.22	7.26	7.23	7.45	7.39	10.29	10.35	10.34		
20	1	1	16-QAM	16.63	16.28	16.55	16.27	16.73	16.35	19.46	19.52	19.46	18.20	0.0661
20	1	1	64-QAM	15.20	14.78	14.96	14.66	15.12	14.77	17.95	17.96	17.88		
20	1	1	256-QAM	12.12	11.68	11.87	11.64	12.07	11.83	14.90	14.89	14.86		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	16.86	16.91	16.98	16.81	17.12	17.05	19.85	20.03	20.03	18.85	0.0767
30	1	76		16.83	17.08	16.97	17.02	17.21	17.35	19.94	20.16	20.17		
30	39	19		16.89	16.93	16.91	16.83	16.97	17.10	19.87	19.96	20.02		
30	1	0		14.97	15.00	15.04	14.91	15.09	14.93	17.95	18.06	18.00		
30	1	77		14.83	14.86	15.10	14.83	15.14	15.02	17.84	18.01	18.07		
30	78	0		7.29	7.27	7.30	7.15	7.49	7.51	10.23	10.39	10.42		
30	1	1	16-QAM	16.54	16.40	16.46	16.16	16.70	16.37	19.36	19.56	19.43	18.24	0.0667
30	1	1	64-QAM	15.11	14.87	14.93	14.62	15.19	14.82	17.88	18.04	17.89		
30	1	1	256-QAM	12.13	11.93	11.99	11.72	12.03	11.95	14.94	14.99	14.98		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	17.34	16.77	16.93	16.88	17.14	17.15	20.13	19.97	20.05	18.81	0.0760
40	1	104		17.00	16.80	16.93	16.95	17.38	17.14	19.99	20.11	20.05		
40	53	26		16.89	16.86	16.76	16.93	17.02	16.88	19.92	19.95	19.83		
40	1	0		15.22	14.96	14.87	14.75	15.21	15.13	18.00	18.10	18.01		
40	1	105		14.94	14.89	15.03	14.81	15.07	15.04	17.89	17.99	18.05		
40	106	0		7.34	7.24	7.26	7.26	7.51	7.37	10.31	10.39	10.33		
40	1	1	16-QAM	16.79	16.37	16.29	16.17	16.80	16.57	19.50	19.60	19.44	18.28	0.0673
40	1	1	64-QAM	15.33	14.81	14.73	14.72	15.21	15.20	18.05	18.02	17.98		
40	1	1	256-QAM	12.22	11.89	11.87	11.78	12.13	12.29	15.02	15.02	15.10		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	16.78	16.60	16.46	16.58	16.76	16.55	19.69	19.69	19.52	18.39	0.0690
50	1	131		16.43	16.37	16.53	16.39	16.69	16.46	19.42	19.54	19.51		
50	67	33		16.59	16.61	16.44	16.55	16.78	16.70	19.58	19.71	19.58		
50	1	0		14.84	14.59	14.56	14.43	14.70	14.57	17.65	17.66	17.58		
50	1	132		14.55	14.40	14.62	14.39	14.70	14.38	17.48	17.56	17.51		
50	133	0		6.98	7.04	6.99	6.94	7.25	7.14	9.97	10.16	10.08		
50	1	1	16-QAM	16.22	16.07	16.21	15.97	16.34	16.07	19.11	19.22	19.15	17.90	0.0617
50	1	1	64-QAM	14.82	14.55	14.69	14.40	14.84	14.47	17.63	17.71	17.59		
50	1	1	256-QAM	11.82	11.49	11.50	11.41	11.77	11.86	14.63	14.64	14.69		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	16.64	16.69	16.52	16.46	16.63	16.68	19.56	19.67	19.61	18.40	0.0692
60	1	160		16.71	16.52	16.61	16.71	16.71	16.60	19.72	19.63	19.62		
60	81	40		16.73	16.61	16.51	16.67	16.78	16.77	19.71	19.71	19.65		
60	1	0		14.69	14.65	14.49	14.47	14.51	14.51	17.59	17.59	17.51		
60	1	161		14.66	14.64	14.69	14.48	14.62	14.56	17.58	17.64	17.64		
60	162	0		7.01	7.01	6.98	6.98	7.23	7.12	10.01	10.13	10.06		
60	1	1	16-QAM	16.43	16.34	15.92	15.90	16.01	16.06	19.18	19.19	19.00	17.87	0.0612
60	1	1	64-QAM	14.88	14.72	14.56	14.33	14.42	14.45	17.62	17.58	17.52		
60	1	1	256-QAM	11.83	11.51	11.45	11.36	11.71	11.78	14.61	14.62	14.63		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	16.76	16.53	16.44	16.43	16.59	16.60	19.61	19.57	19.53	18.46	0.0701
70	1	187		16.43	16.48	16.73	16.54	16.85	16.71	19.50	19.68	19.73		
70	95	47		16.63	16.58	16.67	16.59	16.82	16.87	19.62	19.71	19.78		
70	1	0		14.74	14.52	14.51	14.55	14.60	14.67	17.66	17.57	17.60		
70	1	188		14.26	14.58	14.66	14.49	14.71	14.74	17.39	17.66	17.71		
70	189	0		6.97	6.92	7.03	7.01	7.16	7.22	10.00	10.05	10.14		
70	1	1	16-QAM	16.48	16.07	16.00	15.91	16.08	16.14	19.21	19.09	19.08	17.89	0.0615
70	1	1	64-QAM	15.02	14.53	14.60	14.33	14.64	14.56	17.70	17.60	17.59		
70	1	1	256-QAM	11.94	11.56	11.62	11.49	11.76	11.70	14.73	14.67	14.67		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	16.78	16.65	16.45	16.53	16.61	16.54	19.67	19.64	19.51	18.45	0.0700
80	1	215		16.34	16.59	16.64	16.61	16.65	16.55	19.49	19.63	19.61		
80	109	54		16.68	16.67	16.59	16.62	16.85	16.76	19.66	19.77	19.69		
80	1	0		14.86	14.58	14.65	14.32	14.46	14.55	17.61	17.53	17.61		
80	1	216		14.53	14.48	14.60	14.53	14.54	14.54	17.54	17.52	17.58		
80	217	0		7.01	7.03	6.98	7.05	7.22	7.16	10.04	10.14	10.08		
80	1	1	16-QAM	16.27	16.31	16.08	15.88	16.01	16.11	19.09	19.17	19.11	17.85	0.0610
80	1	1	64-QAM	14.82	14.75	14.58	14.32	14.36	14.48	17.59	17.57	17.54		
80	1	1	256-QAM	11.67	11.55	11.47	11.69	11.71	11.74	14.69	14.64	14.62		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	16.75	16.56	16.53	16.44	16.46	16.65	19.61	19.52	19.60	18.42	0.0695
90	1	243		16.47	16.59	16.74	16.63	16.71	16.72	19.56	19.66	19.74		
90	123	61		16.61	16.59	16.63	16.56	16.79	16.75	19.60	19.70	19.70		
90	1	0		14.88	14.59	14.25	14.35	14.47	14.38	17.63	17.54	17.33		
90	1	244		14.59	14.73	14.69	14.52	14.61	14.61	17.57	17.68	17.66		
90	245	0		6.97	6.92	6.98	6.96	7.14	7.22	9.98	10.04	10.11		
90	1	1	16-QAM	16.36	16.23	16.05	16.11	16.14	15.93	19.25	19.20	19.00	17.93	0.0621
90	1	1	64-QAM	14.85	14.69	14.55	14.33	14.28	14.31	17.61	17.50	17.44		
90	1	1	256-QAM	11.94	11.49	11.65	11.38	11.62	11.45	14.68	14.57	14.56		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n78 Maximum Average Power [dBm], DG = -1.32 dBi														
BW	RB	RB	Mod	Antenna 8			Antenna 9			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	16.66	16.53	16.60	16.47	16.40	16.52	19.58	19.48	19.57	18.41	0.0693
100	1	271		16.67	16.68	16.74	16.76	16.58	16.58	19.73	19.64	19.67		
100	137	68		16.59	16.51	16.54	16.66	16.74	16.66	19.64	19.64	19.61		
100	1	0		14.68	14.69	14.53	14.49	14.37	14.66	17.60	17.54	17.61		
100	1	272		14.51	14.64	14.65	14.70	14.62	14.64	17.62	17.64	17.66		
100	273	0		6.98	6.93	6.98	7.02	7.12	7.14	10.01	10.04	10.07		
100	1	1	16-QAM	16.34	16.16	16.06	16.11	15.92	15.90	19.24	19.05	18.99	17.92	0.0619
100	1	1	64-QAM	14.82	14.66	14.61	14.18	14.29	14.36	17.52	17.49	17.50		
100	1	1	256-QAM	11.87	11.72	11.73	11.40	11.33	11.45	14.65	14.54	14.60		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

**FR1 n77 Part96**

<SISO Mode>

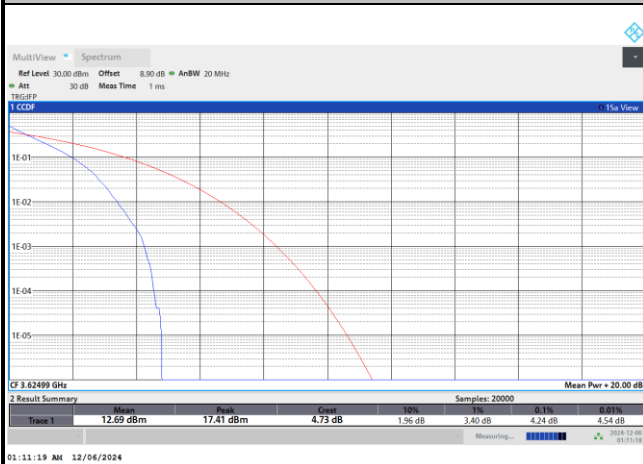
Peak-to-Average Ratio

Mode	FR1 n77 / 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	4.24	6.52	5.88	6.14	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	7.66				PASS

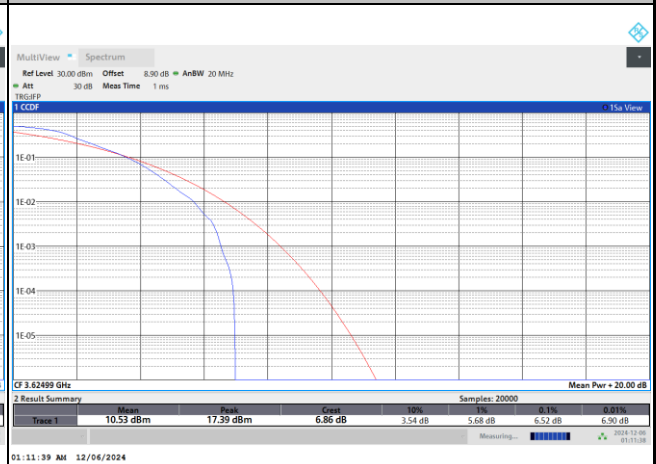


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

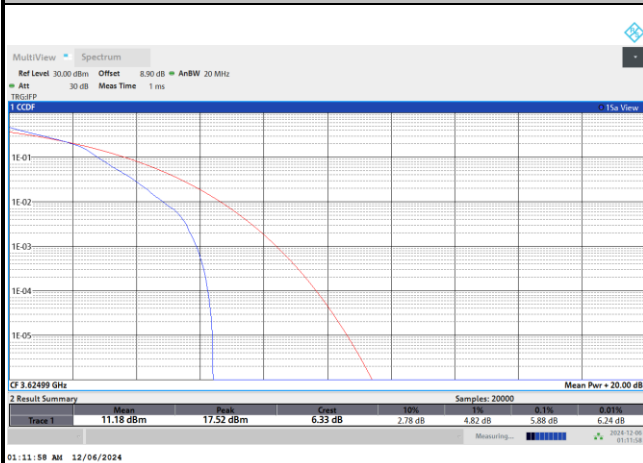
PI/2 BPSK



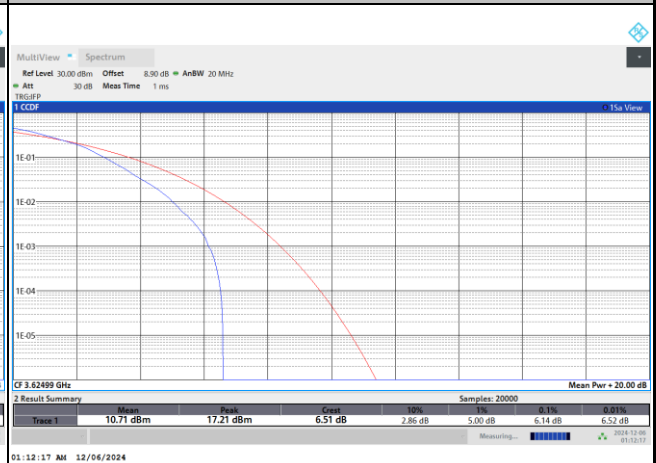
QPSK



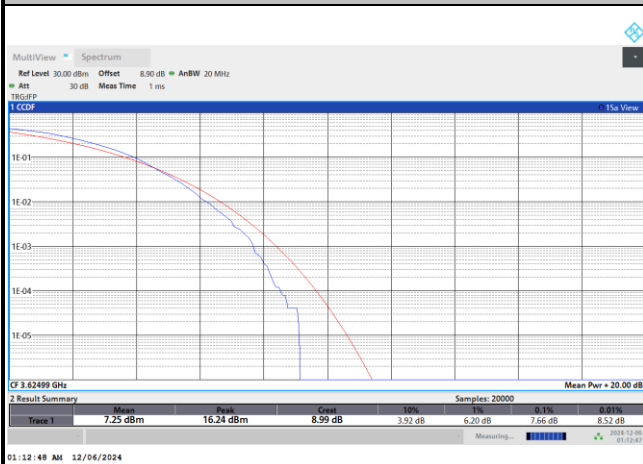
16QAM



64QAM



256QAM



**26dB Bandwidth**

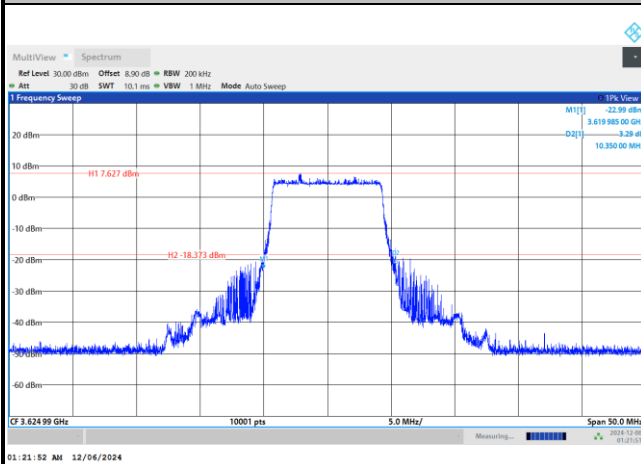
Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	10.34	14.80	20.60	-	31.89	39.88	50.57	63.71
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	71.23	81.12	92.27	101.40				

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.32	10.38	15.52	16.43	24.22	23.45	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	11.84	10.25	15.46	15.58	20.37	20.38	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	31.62	33.34	41.61	44.31	53.03	50.89	63.25	62.83
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	30.81	33.85	42.99	43.29	54.17	50.62	64.60	63.31
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	73.18	72.84	81.31	81.20	93.00	92.71	103.47	103.59
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	72.45	73.06	81.05	80.44	94.50	92.67	103.63	103.08



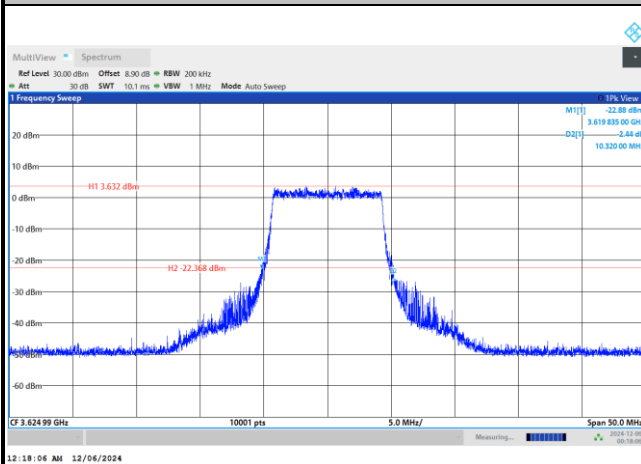
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

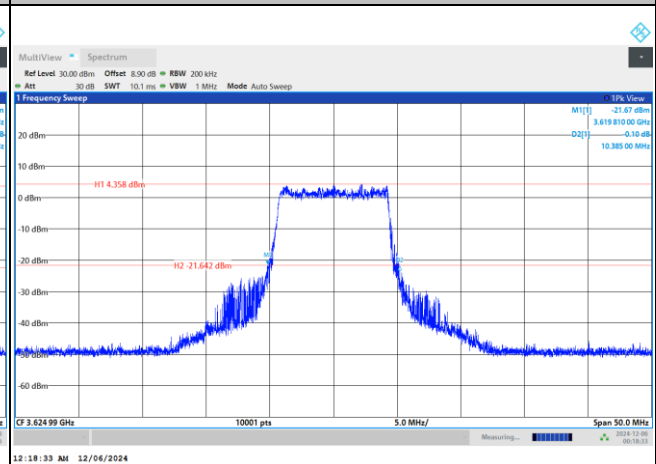


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

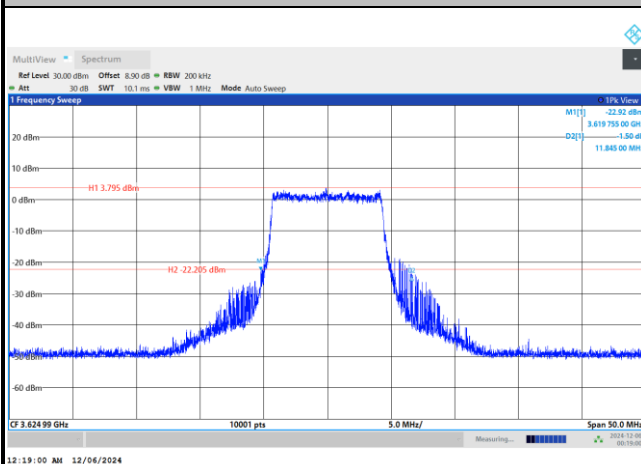
QPSK



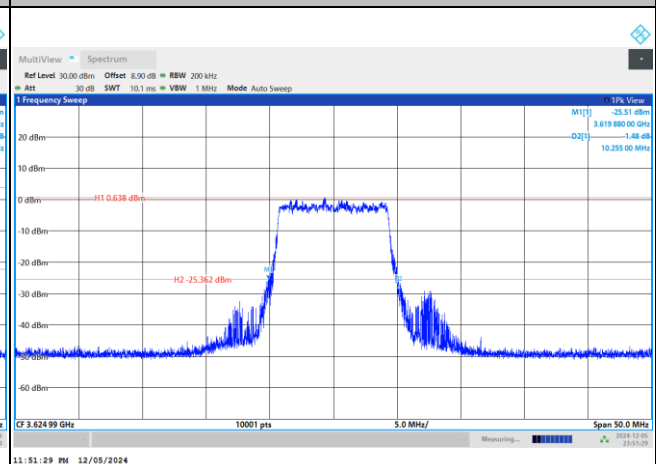
16QAM



64QAM



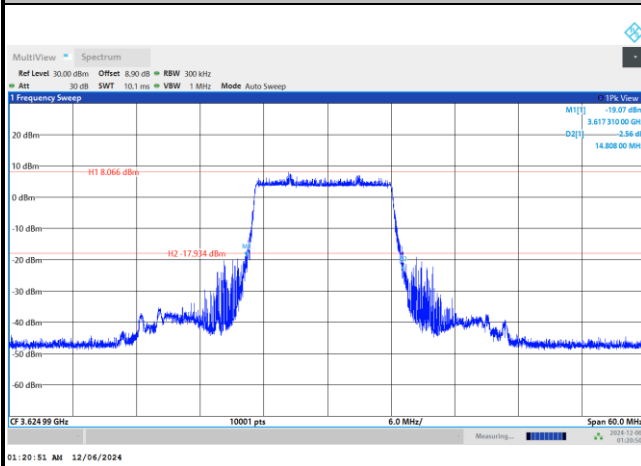
256QAM





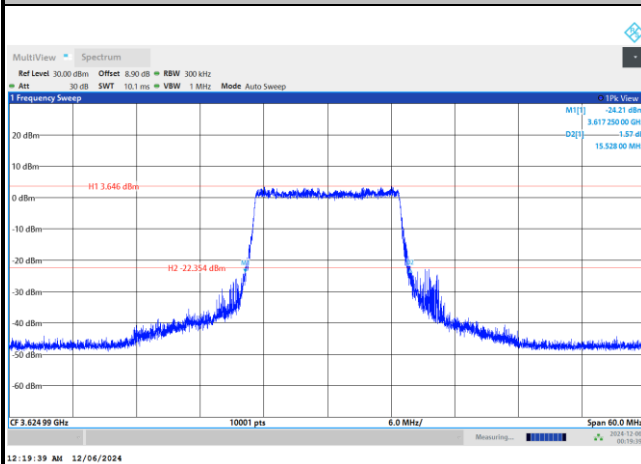
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

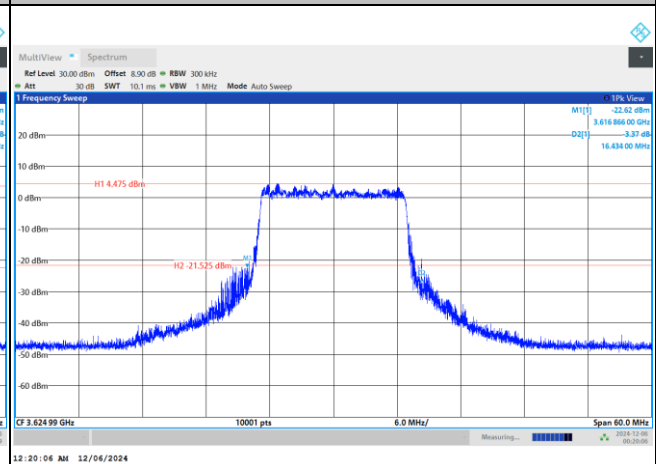


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

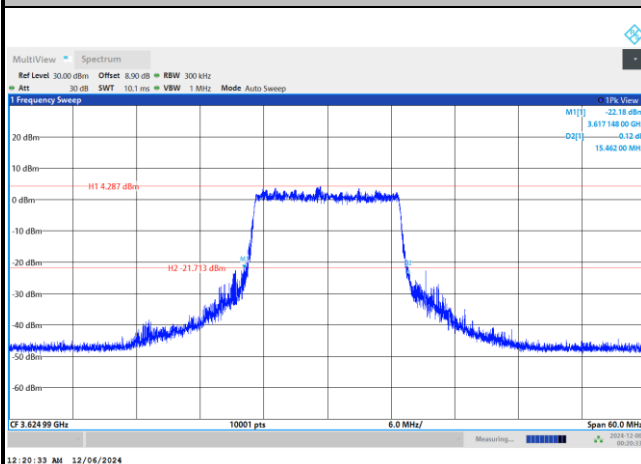
QPSK



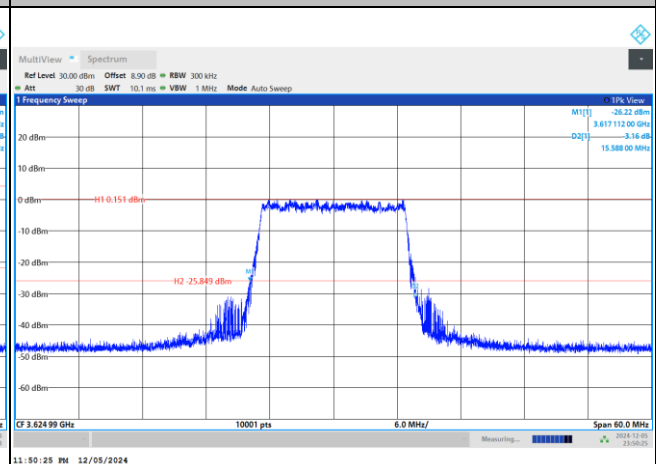
16QAM



64QAM



256QAM

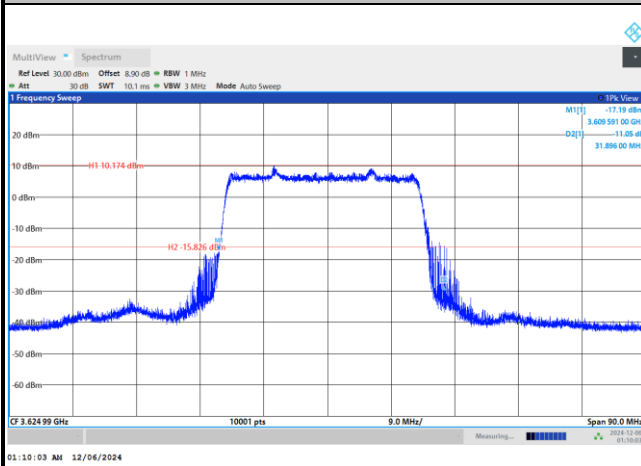






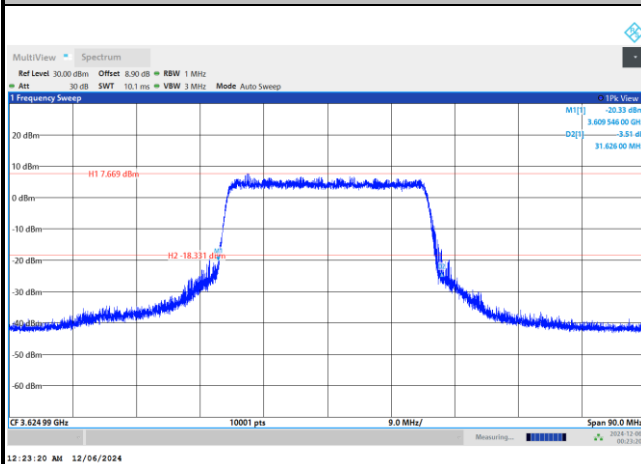
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

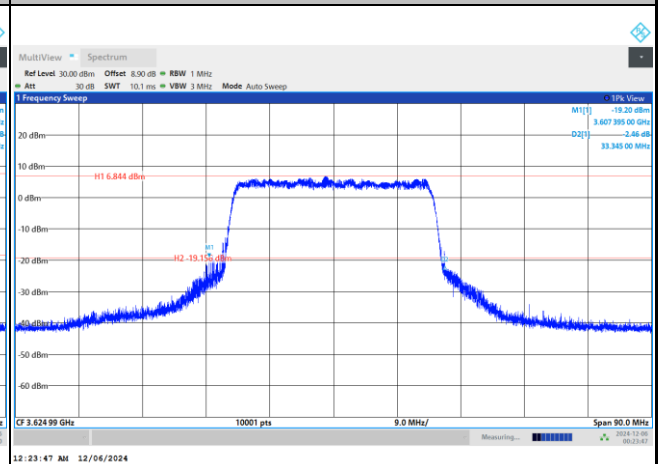


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

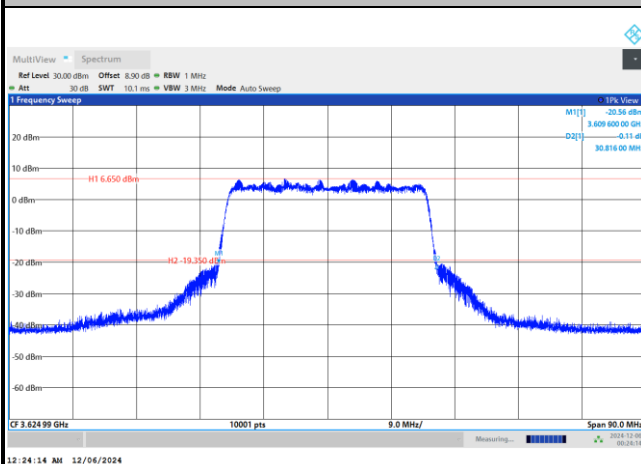
QPSK



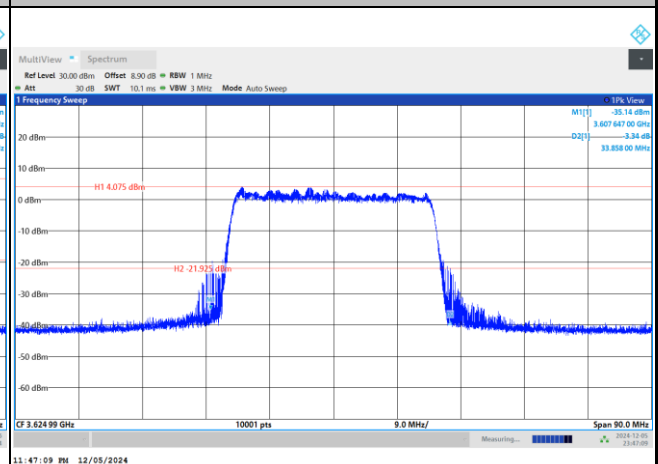
16QAM

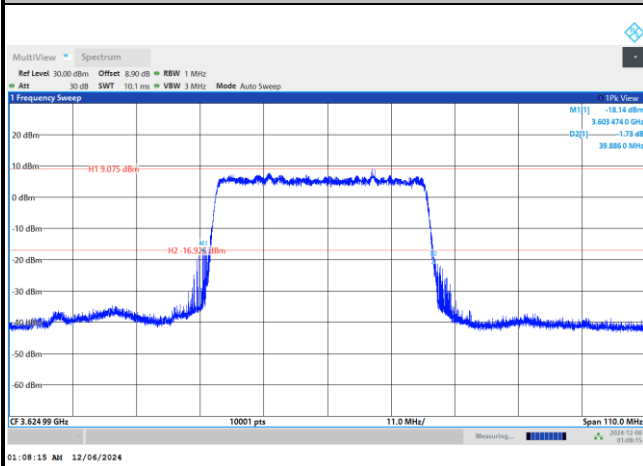
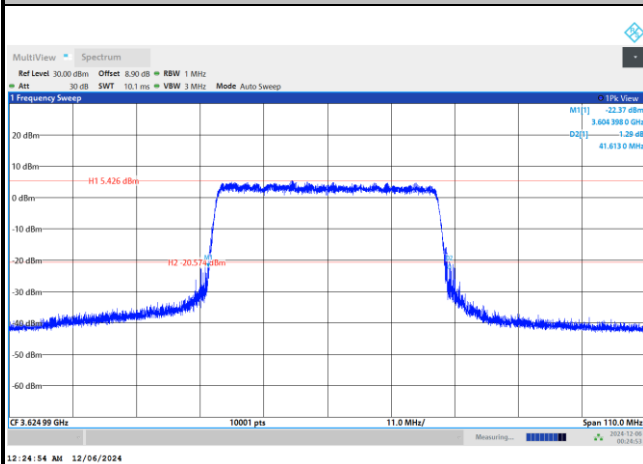
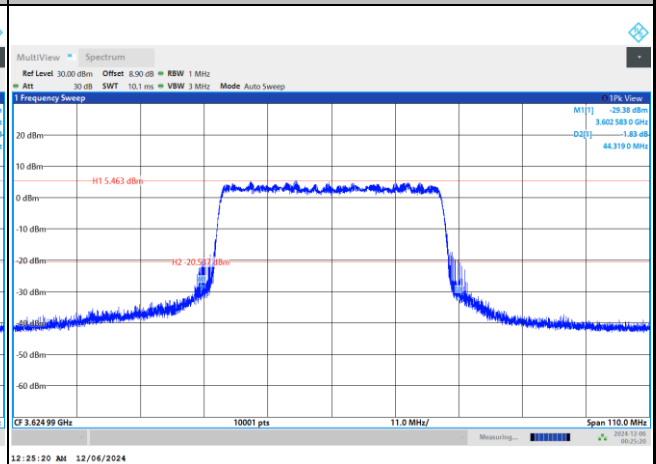
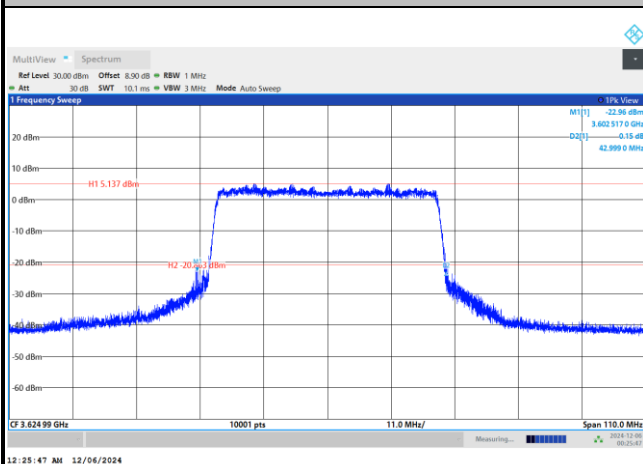
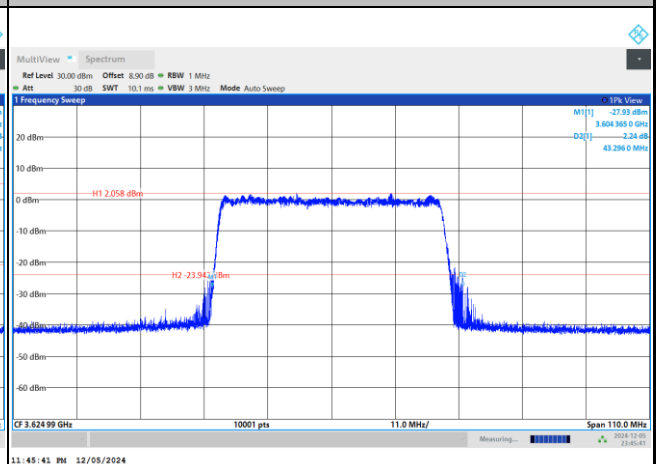


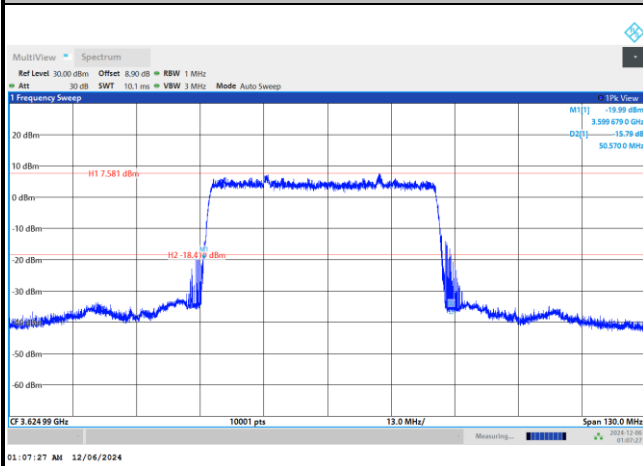
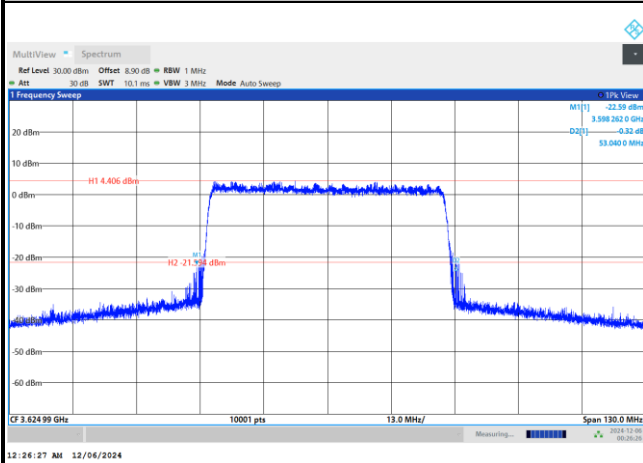
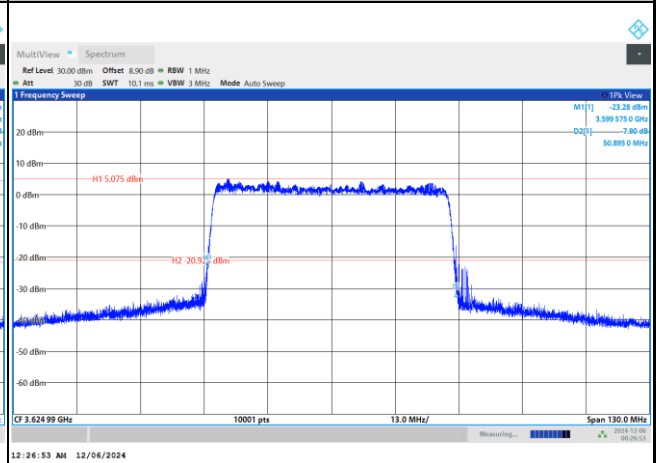
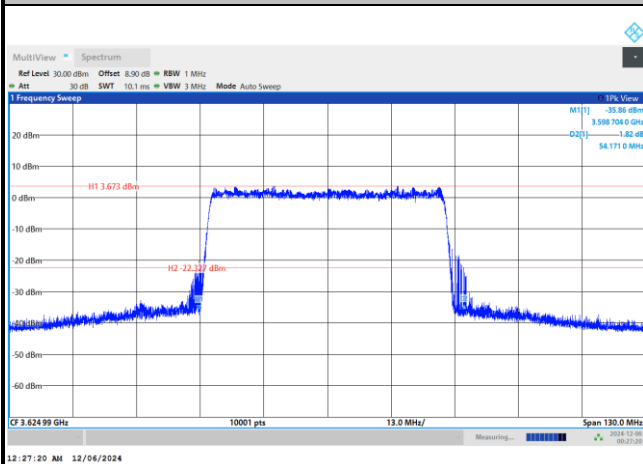
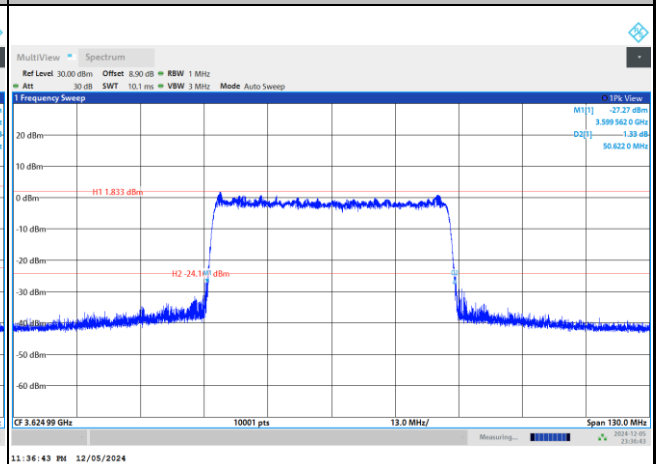
64QAM

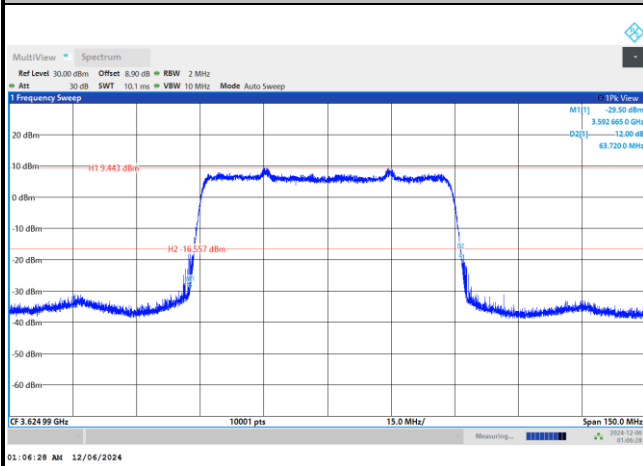
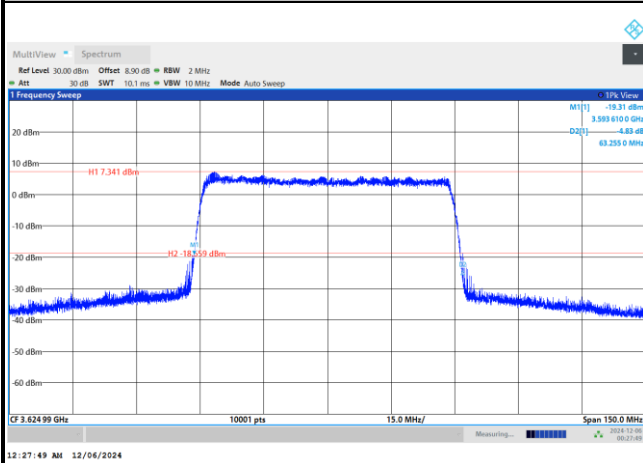
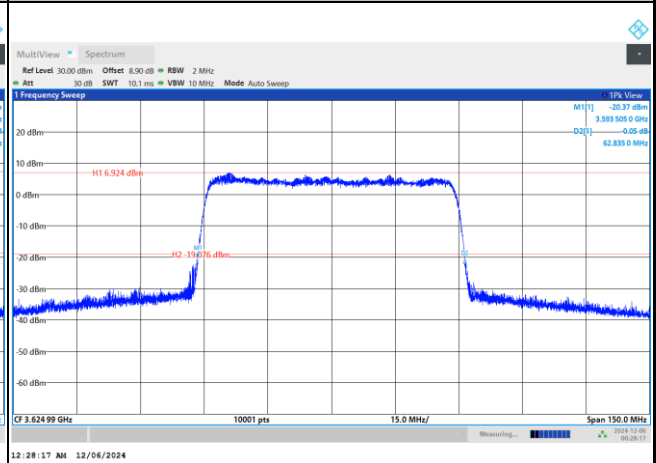
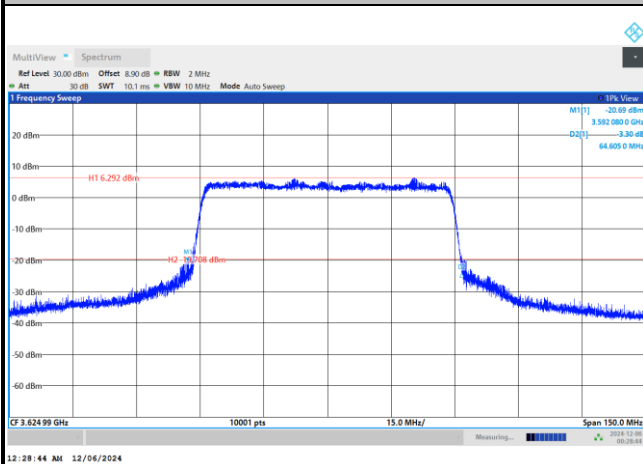
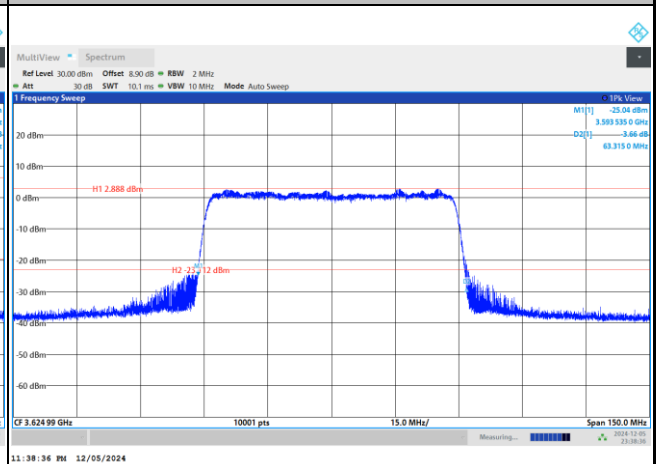


256QAM



FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


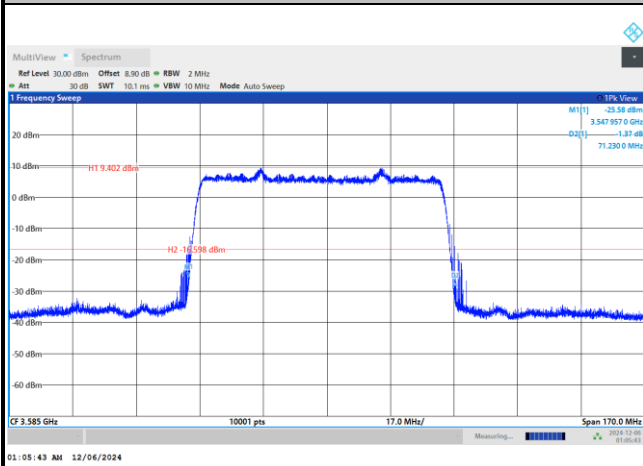
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM




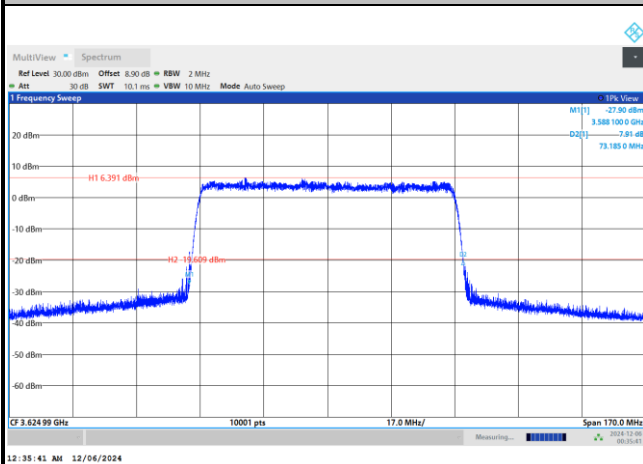
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

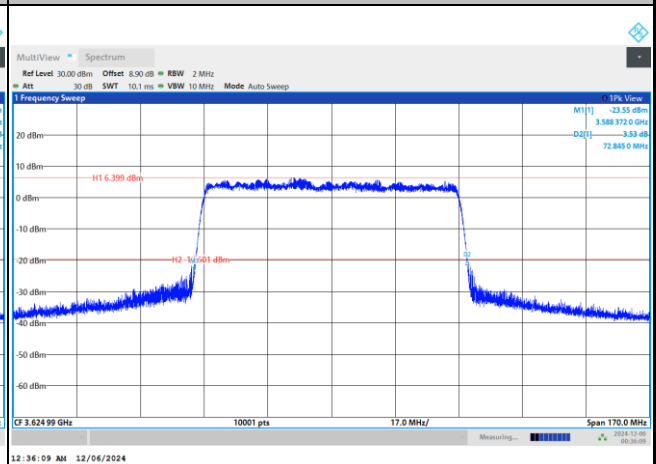


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

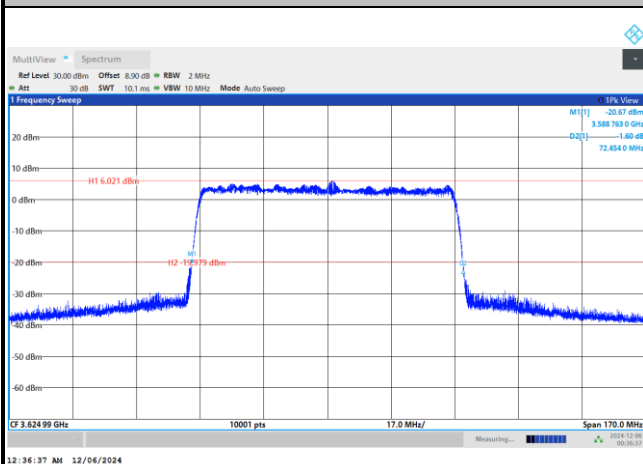
QPSK



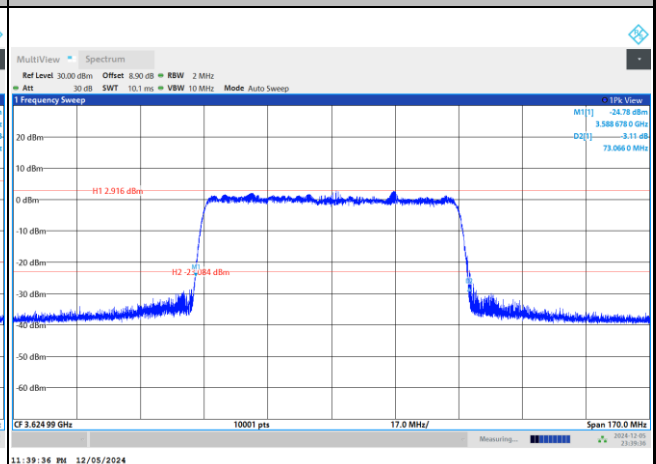
16QAM

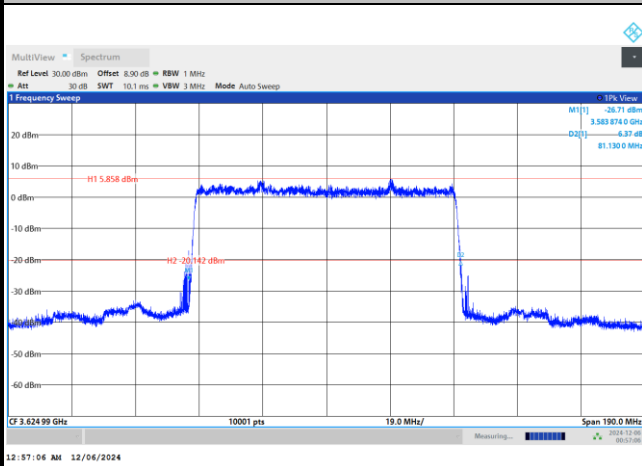
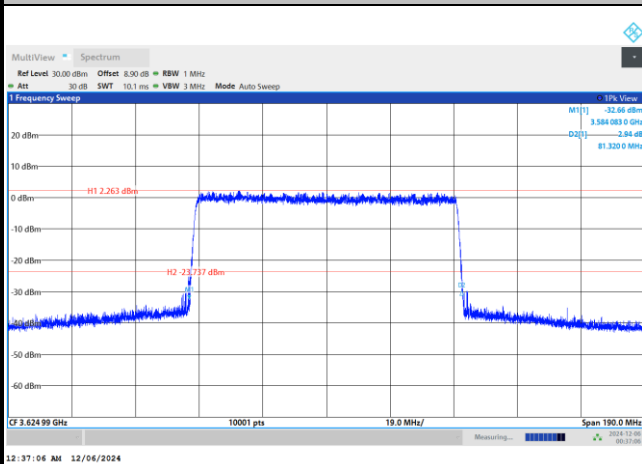
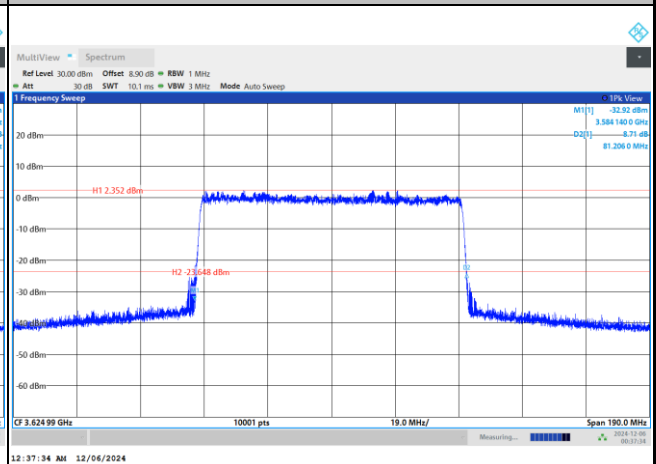
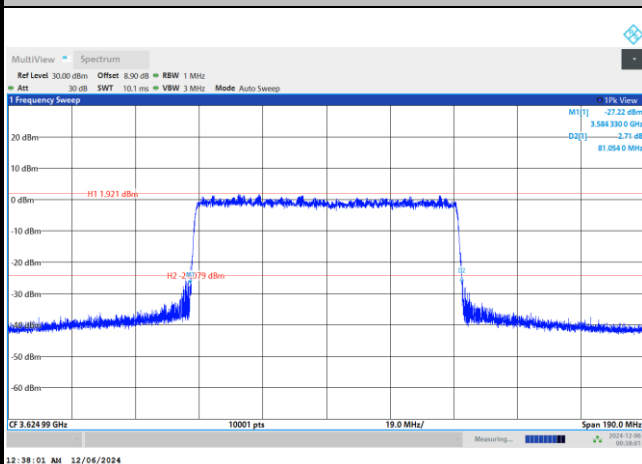
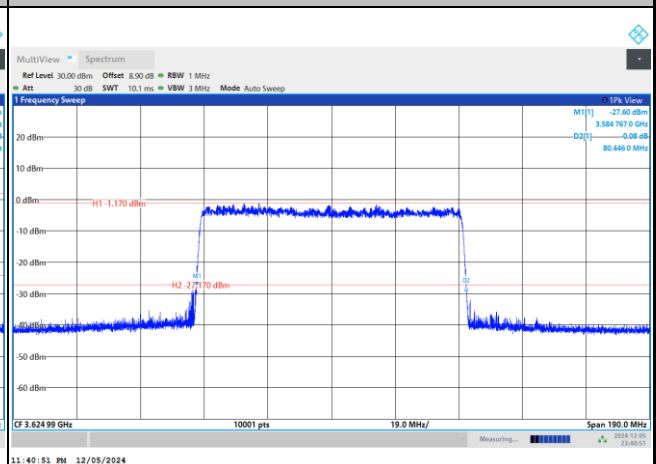


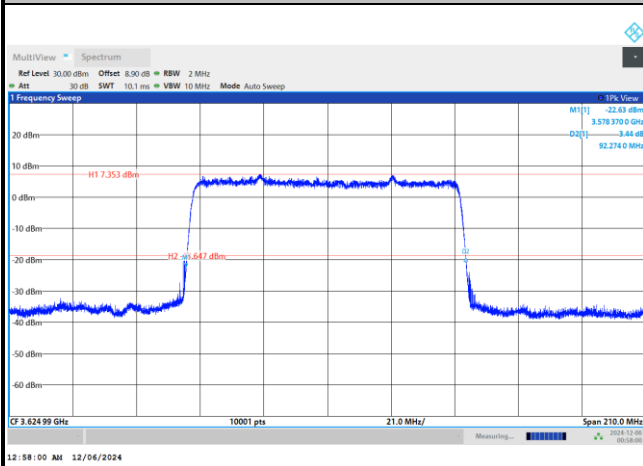
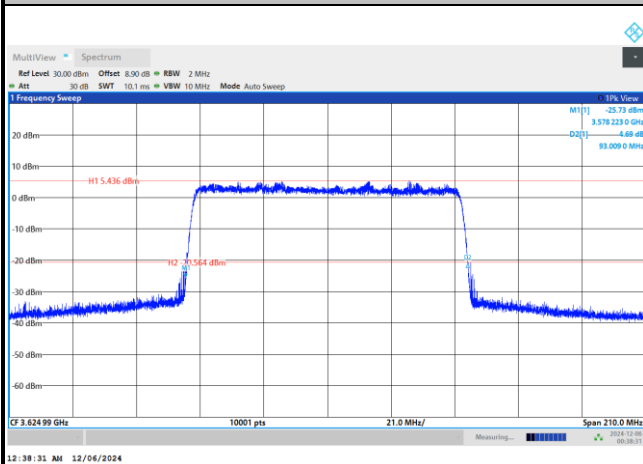
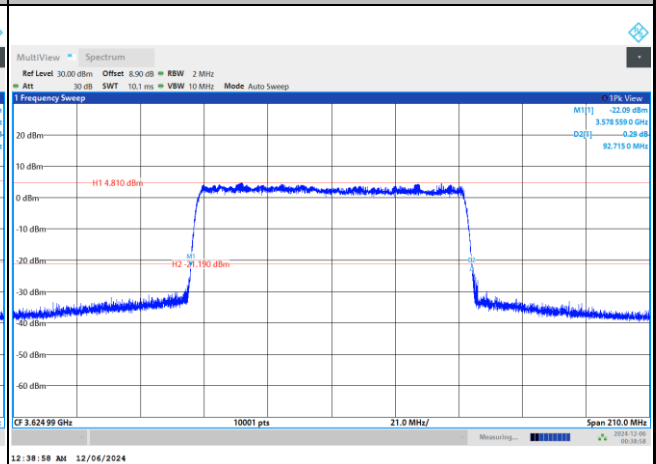
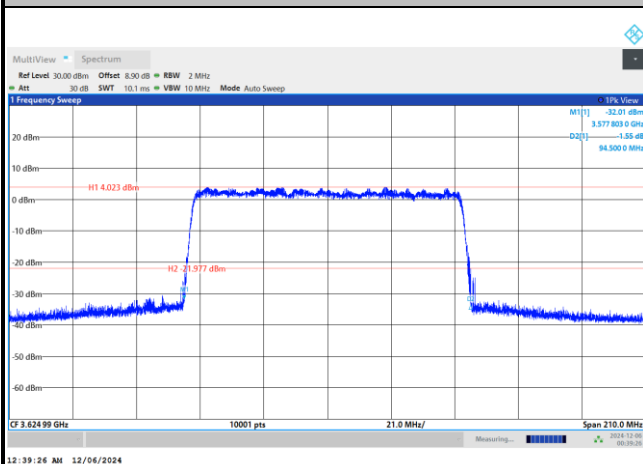
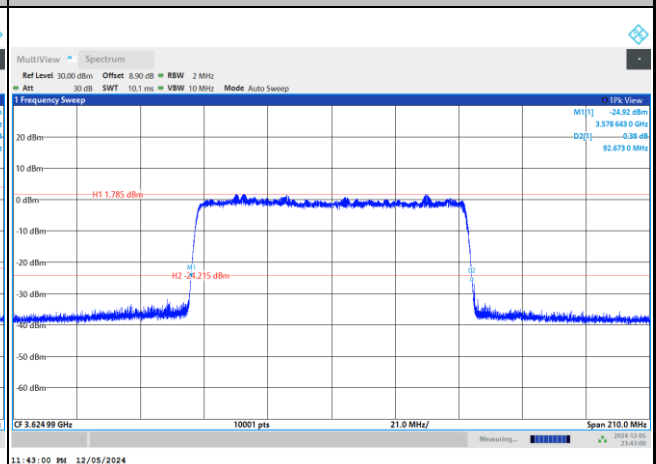
64QAM



256QAM



FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM




MultiView Spectrum

Ref Level 30.00 dBm Offset 8.90 dB RBW 2 MHz

Att 30 dB SWT 10.1 ms VBW 10 MHz Mode Auto Sweep

1 Frequency Sweep

0 dB View

H1 8.752 dBm

H2 17.248 dBm

3.62499 GHz

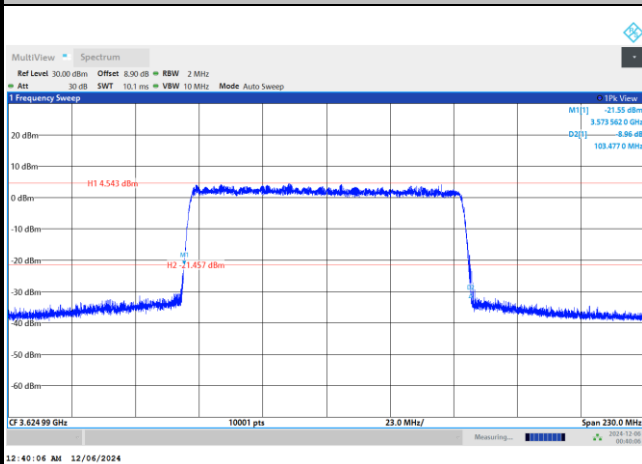
23.0 MHz/

Span 230.0 MHz

Measuring...

2024-12-06 12:05:59

QPSK



The screenshot displays a Spectrum Analyzer interface. The main plot shows a signal with a flat baseline at approximately -40 dBm, a sharp rise to a plateau at 0 dBm, and a sharp fall back to the baseline. Two peaks are identified: H1 at 15.191 dBm and H2 at 11.009 dBm. The frequency range is from 3.62499 GHz to 3.82499 GHz, with a span of 230.0 MHz. The resolution bandwidth (RBW) is 2 MHz. The interface includes various control panels for settings like Offset, RBW, Span, and a data table on the right.

Peak	Frequency (GHz)	Power (dBm)
H1	3.67499	15.191
H2	3.72499	11.009

MultiView Spectrum

Ref Level 30.00 dBm Offset 8.90 dB RBW 2 MHz

Att 30 dB SWT 10.1 ms VBW 10 MHz Mode Auto Sweep

1 Frequency Sweep

10% View

M[1] -24.73 dBm
3.979 670 G Hz
D[3] -2.39 dBm
100.638 0 MHz

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

H1 4.410 dBm
H2 -1.590 dBm

CF 3.624 99 GHz 10001 pts 23.0 MHz/ Span 230.0 MHz

Measuring... 2024-12-06 01:01:14

01:01:14 AM 12/06/2024

MultiView Spectrum

Ref Level 30.00 dBm Offset 8.00 dB RBW 2 MHz

Att 30 dB SWT 10.1 ms VBW 10 MHz Mode Auto Sweep

1 Frequency Sweep

0 1PK View

M1 1 -28.61 dBm
3.573 300.0 GHz
D2 1 -3.75 dBm
103.086 0 MHz

20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm

H1 1.386 dBm
H2 -8.614 dBm

CF 3.62499 GHz 10001 pts 23.0 MHz/ Span 230.0 MHz

11:44:07 PM 12/05/2024

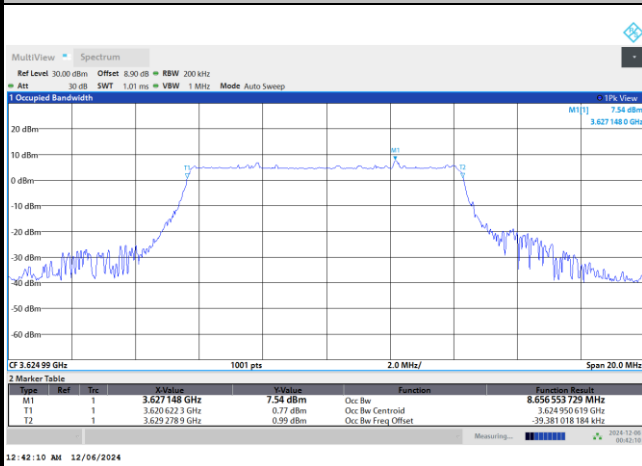
**Occupied Bandwidth**

Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.65	12.99	18.02	-	27.32	36.05	45.95	58.51
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	64.89	77.42	87.18	96.66				

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.68	8.67	13.68	13.69	18.47	18.37	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.71	8.66	13.70	13.69	18.37	18.42	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.21	28.16	38.07	38.02	47.66	47.68	58.64	58.43
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	28.18	28.19	38.17	38.22	47.62	47.70	58.69	58.40
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	68.10	67.92	77.77	77.83	87.57	87.69	97.68	97.58
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	68.05	67.86	77.90	77.70	87.96	87.94	97.65	97.69

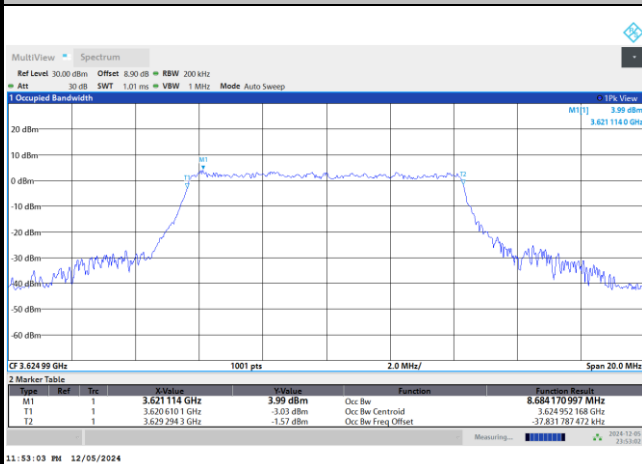
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

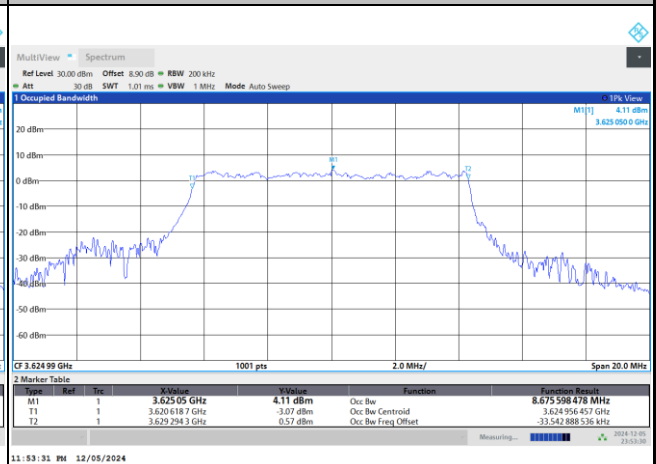


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

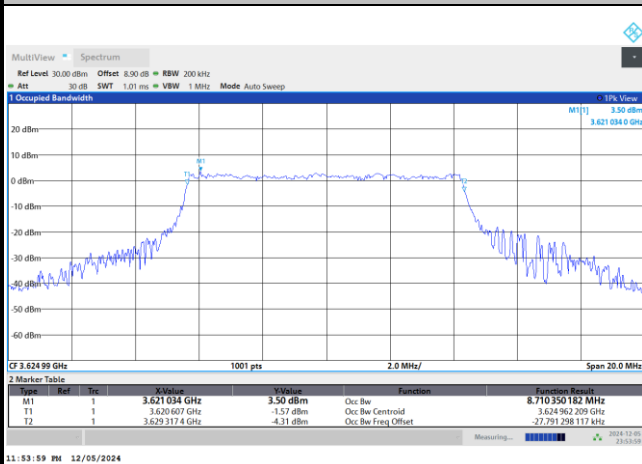
QPSK



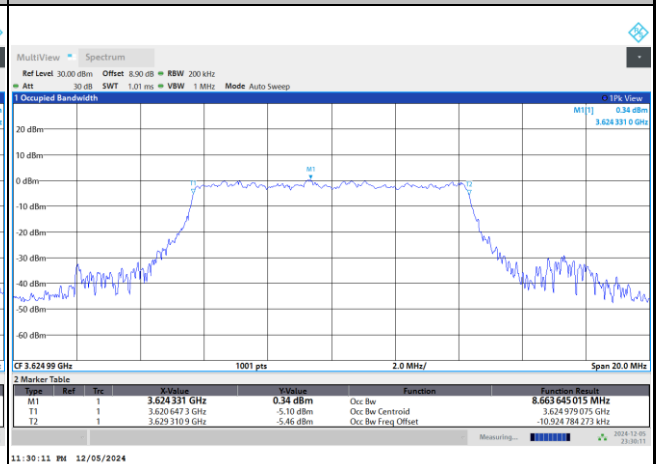
16QAM

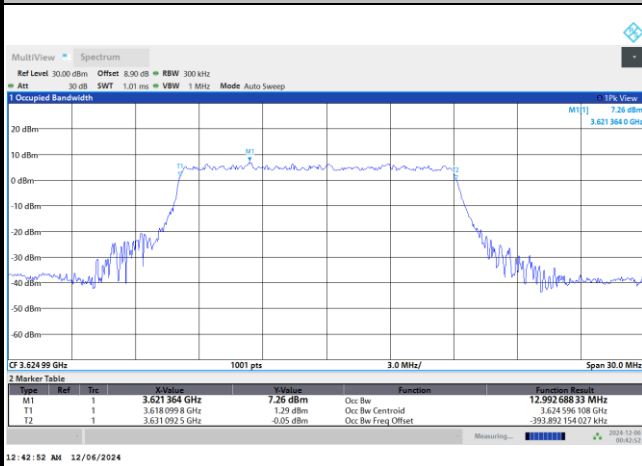
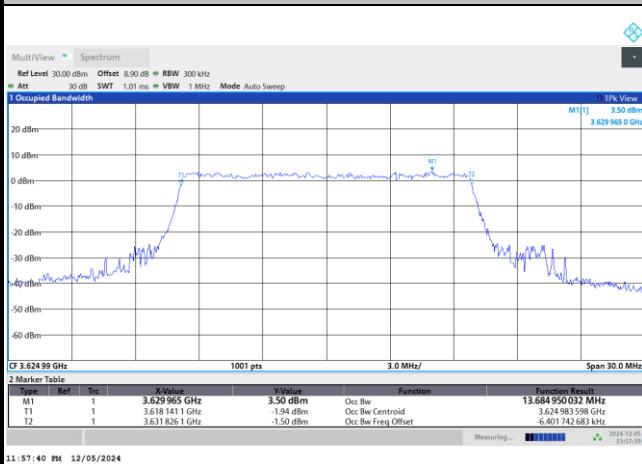
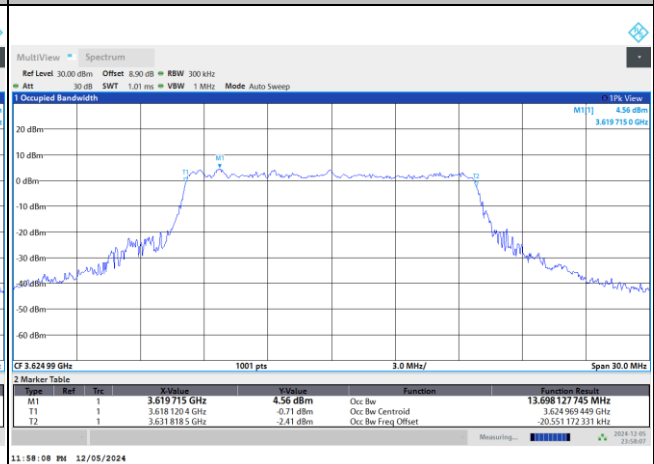
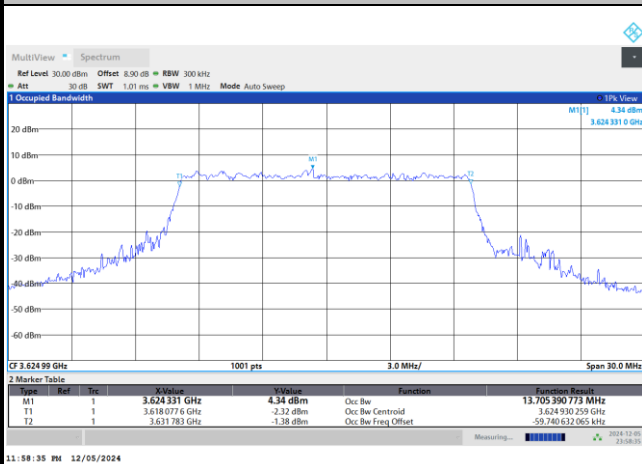
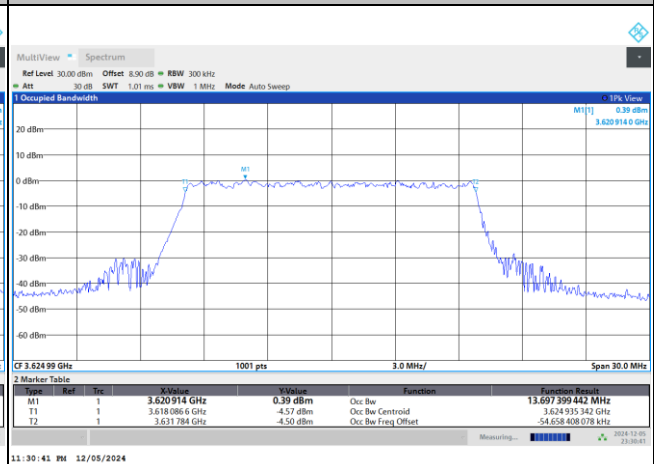


64QAM



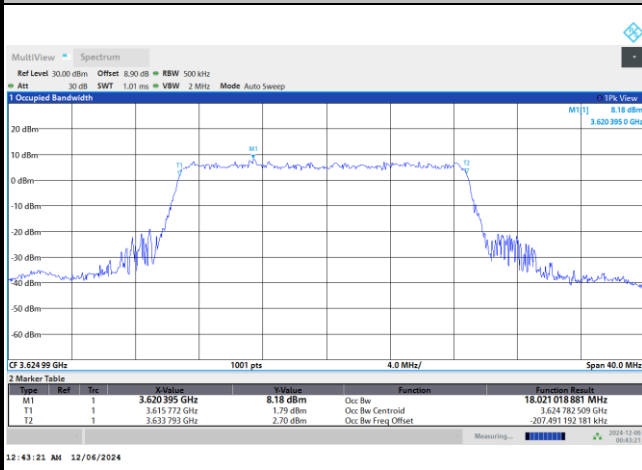
256QAM



FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


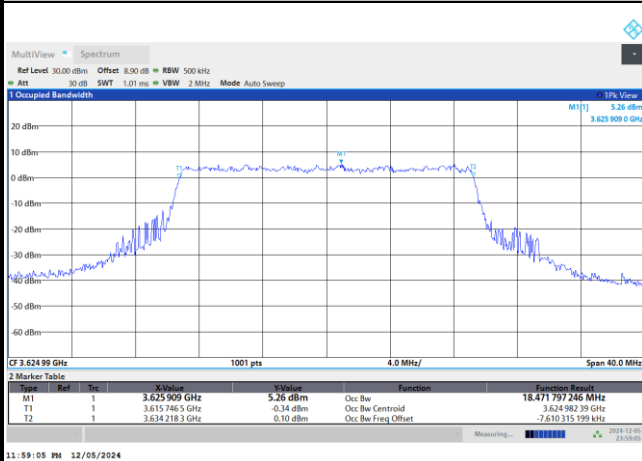
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

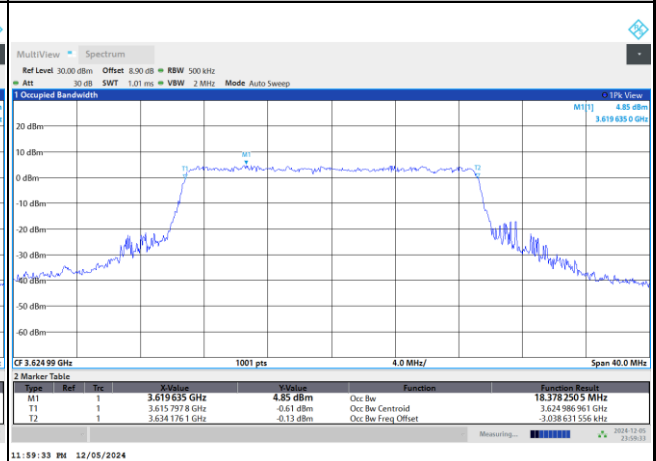


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

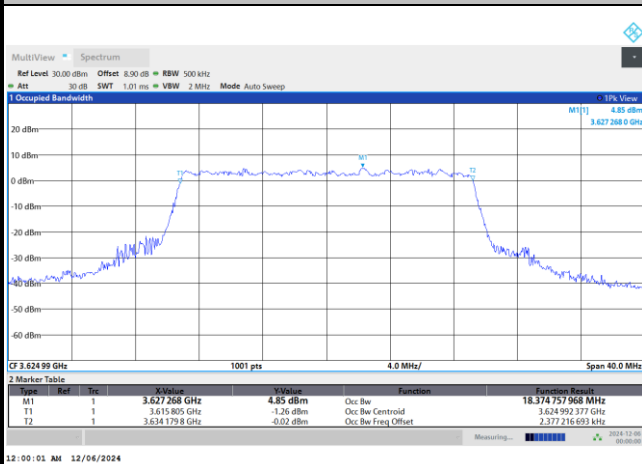
QPSK



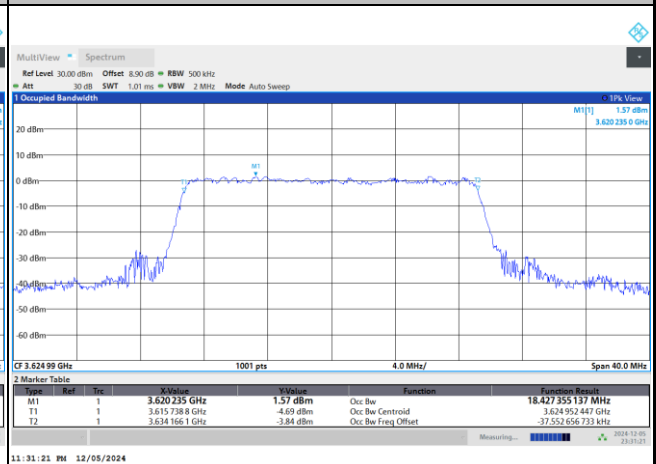
16QAM

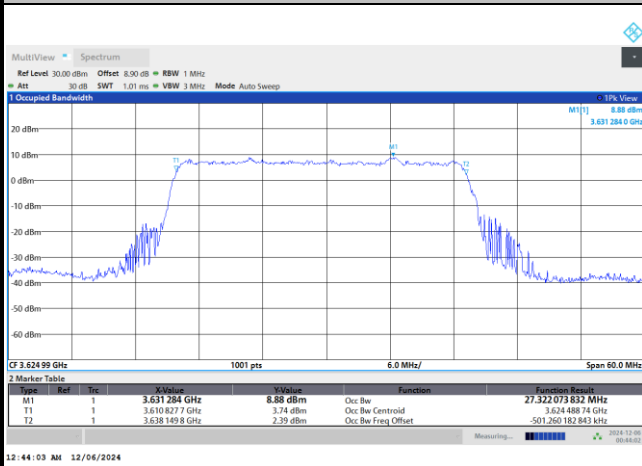
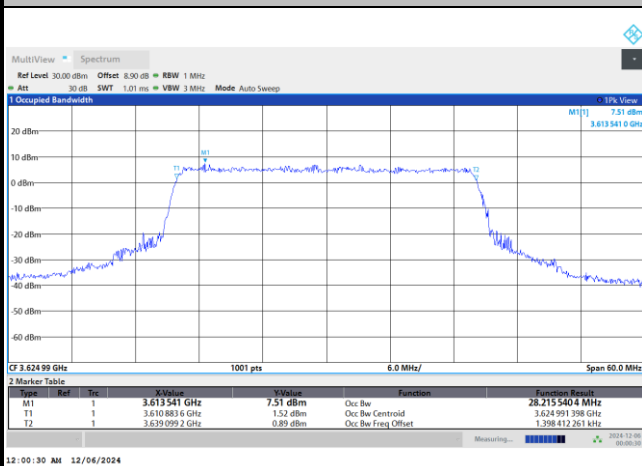
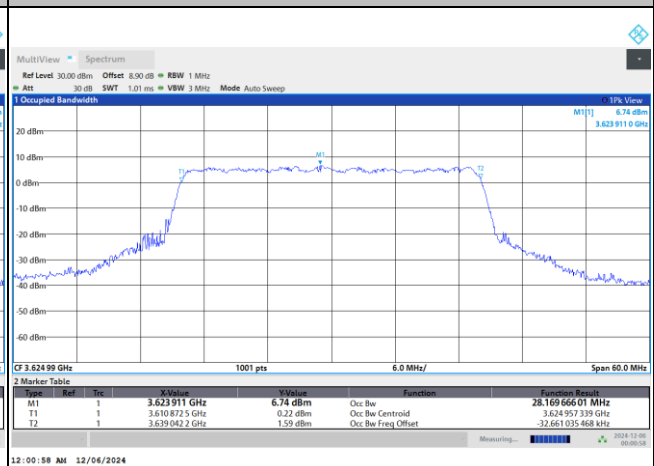
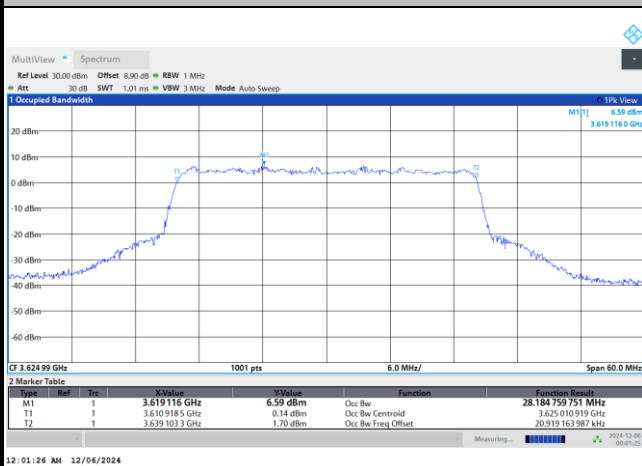
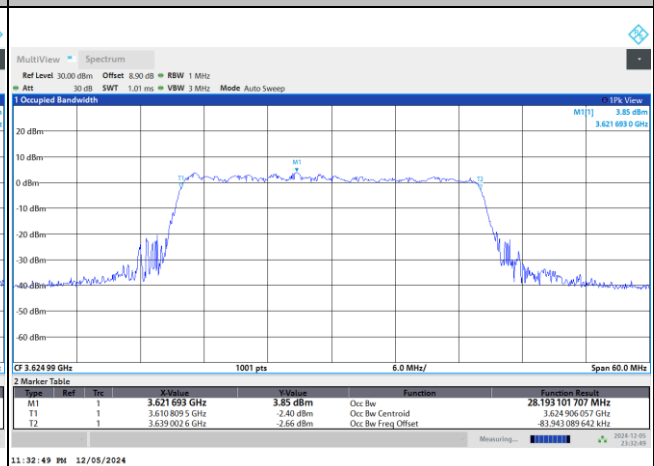


64QAM



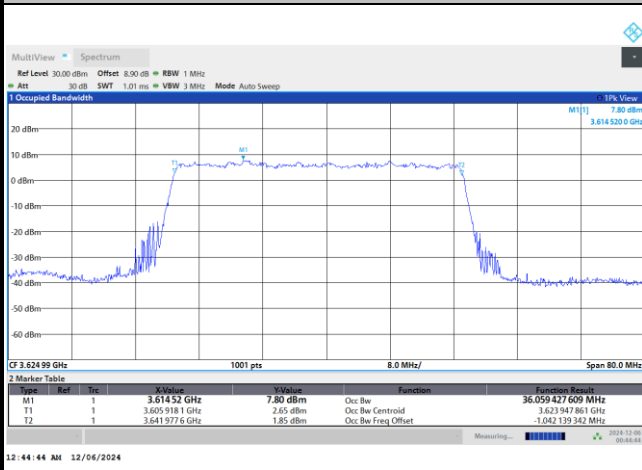
256QAM



FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB
PI/2 BPSK

FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB
QPSK

16QAM

64QAM

256QAM


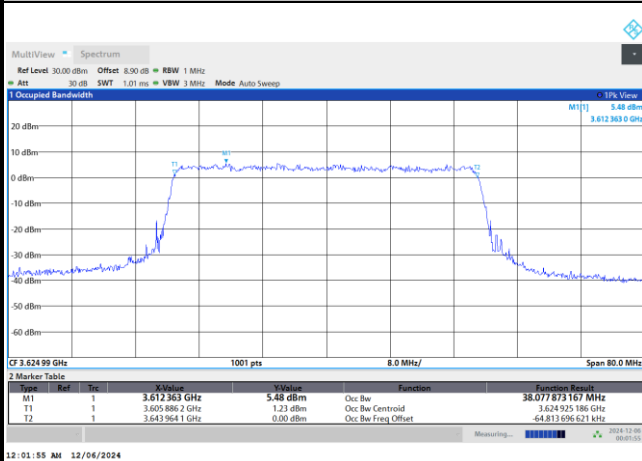
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

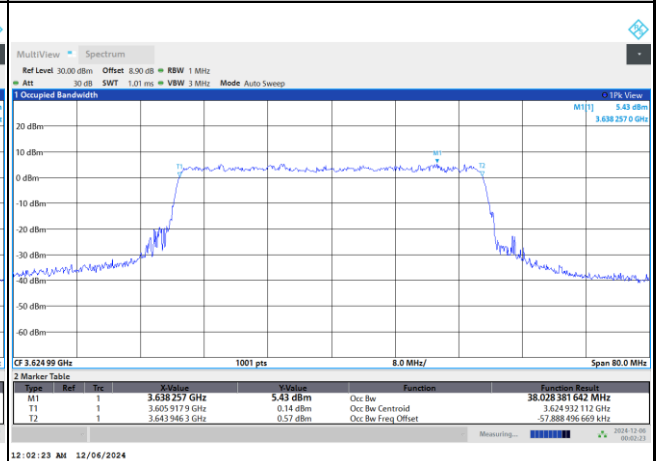


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

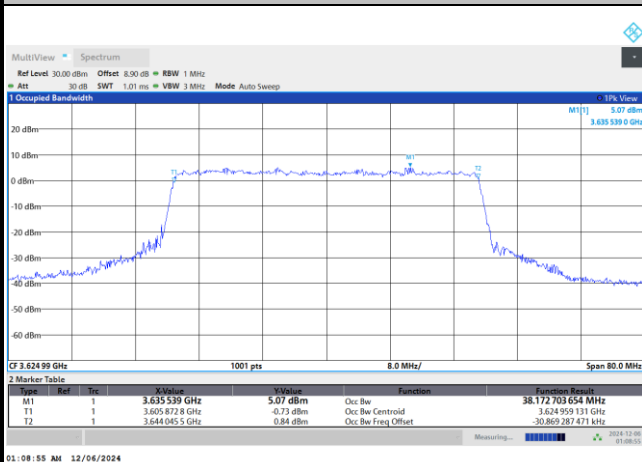
QPSK



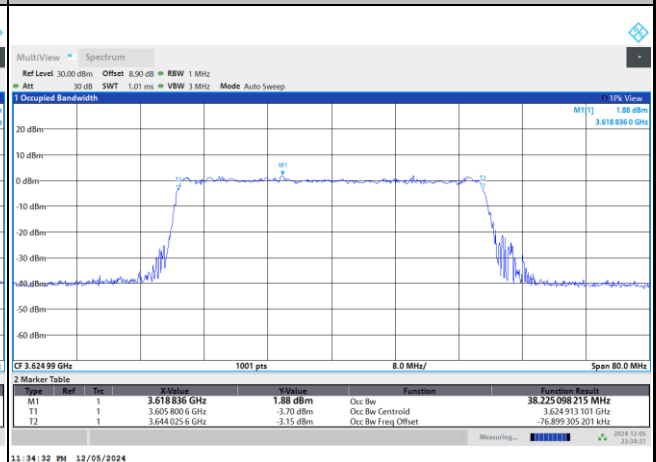
16QAM



64QAM

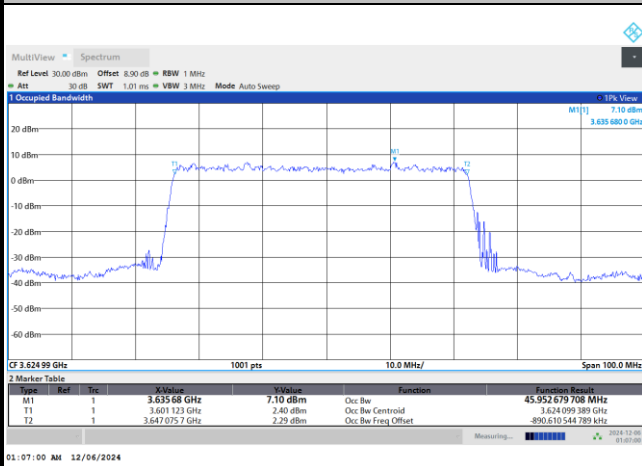


256QAM



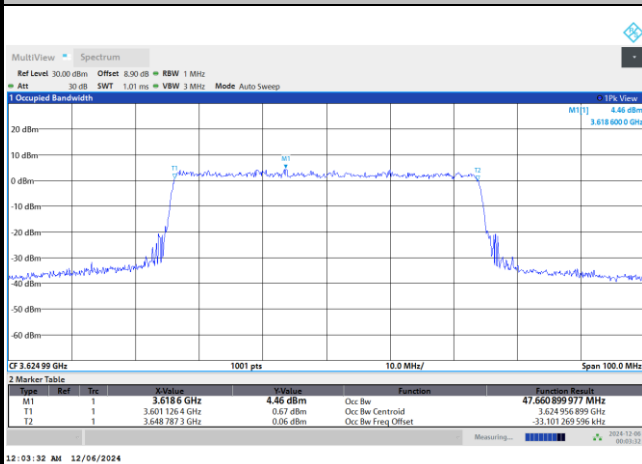
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

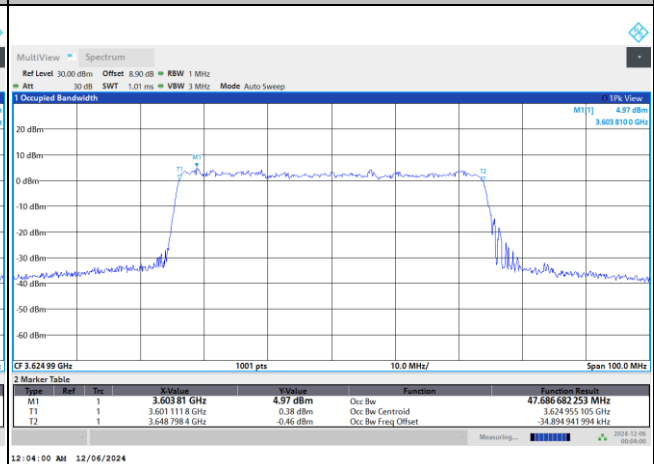


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

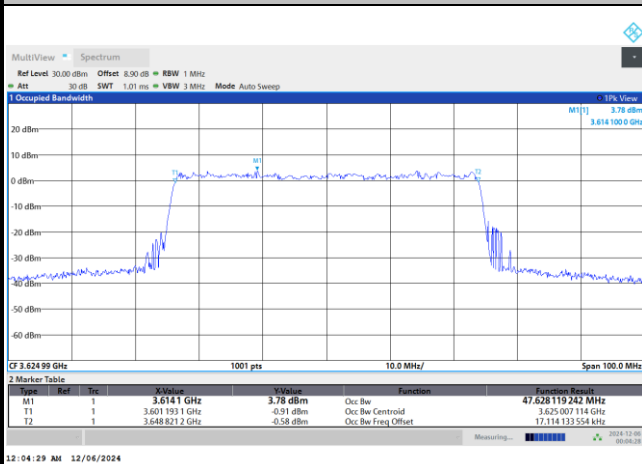
QPSK



16QAM



64QAM



256QAM

