



FCC RADIO TEST REPORT

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

The product was received on Dec. 15, 2022 and testing was performed from Dec. 19, 2022 to Mar. 11, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	6
1.4 Applicable Standards.....	6
2 Test Configuration of Equipment Under Test	7
2.1 Test Mode.....	7
2.2 Connection Diagram of Test System.....	8
2.3 Support Unit used in test configuration and system	8
2.4 Measurement Results Explanation Example.....	8
2.5 Frequency List of Low/Middle/High Channels	9
3 Conducted Test Items.....	10
3.1 Measuring Instruments	10
3.2 Conducted Output Power and EIRP	11
3.3 Peak-to-Average Ratio	12
3.4 Occupied Bandwidth.....	13
3.5 Conducted Band Edge	14
3.6 Conducted Spurious Emission	15
3.7 Frequency Stability	16
4 Radiated Test Items	17
4.1 Measuring Instruments	17
4.2 Radiated Spurious Emission Measurement	19
5 List of Measuring Equipment.....	20
6 Uncertainty of Evaluation.....	21
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FG2N2510-01H	01	Initial issue of report	Mar. 15, 2023
FG2N2510-01H	02	Revise Product Feature of Equipment Under Test and Support Unit. This report is an updated version, replacing the report issued on Mar. 15, 2023.	Mar. 24, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
	§27.50 (k)(3)	Equivalent Isotropic Radiated Power (n77)	Pass	
3.3	§27.50 (k)(4)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement (n77)	Pass	-
3.6	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission (n77)	Pass	-
3.7	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-
4.2	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission (n77)	Pass	10.06 dB under the limit at 10622.000 MHz

Declaration of Conformity:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".

Comments and Explanations:

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

Reviewed by: Keven Cheng

Report Producer: Clio Lo



1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR and GNSS

The following antennas were provided to the EUT

	Band	Antenna Port	RF Exposure Max Antenna Gain(dBi)
5G NR	n77	OAI2/DA2/ OAI4/DA4	2.2
		OA5/OA6	
		EA2/EA4/EA1_5/EA3_6	4

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

1.2 Modification of EUT

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



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Jimmy Chang and George Chen
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	Wilson Wu, Jesse Fan and Tim Lee
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

1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 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 test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168

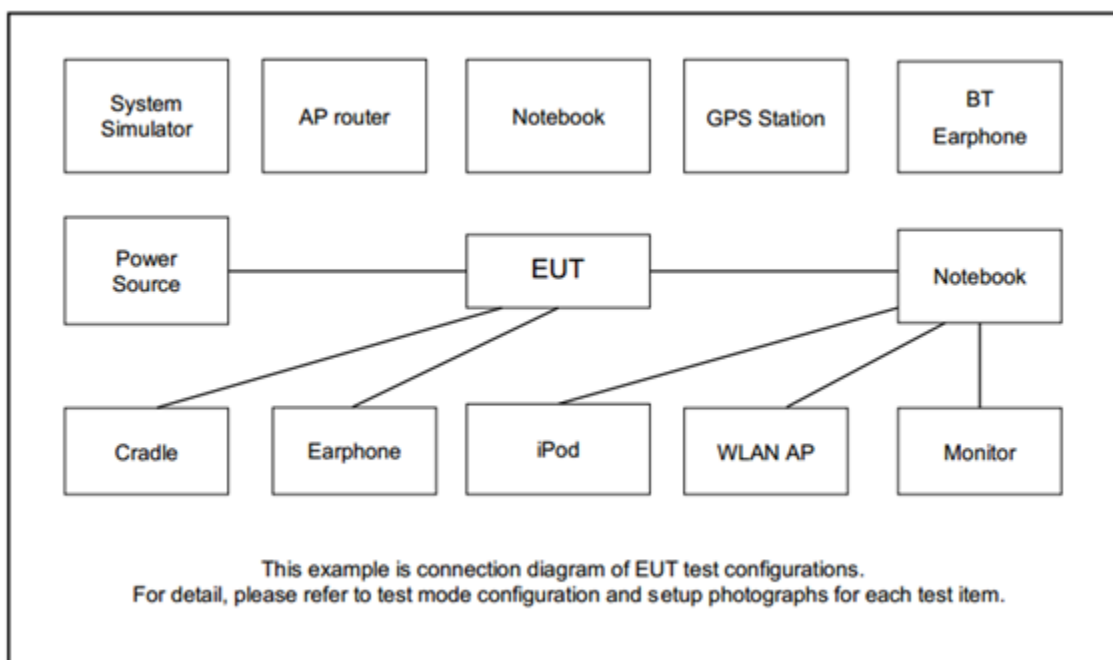
D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, 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		
		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	n77_HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n77_HPUE			v	-									v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n77_HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77_HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n77_HPUE	v			-										v				v			v	v	v
Frequency Stability	n77_HPUE			v	-									v							v		v	
E.I.R.P	n77_HPUE	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	n77_HPUE	Worst Case																				v	v	v

- Remark**
- 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.
 - 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.
 - One representative bandwidth is selected to perform PAR and frequency stability.
 - 5G NR n77 SISO mode support Antenna OA12,DA2,EA2, OA14,DA4,EA4,OA5, OA6,EA3_6,EA1_5, among when switching to Antenna EA2&EA4&EA1_5&EA3_6, there are Power back off mechanism and different Tune up power, in conducted power are Verified, the worst case is Antenna EA1_5 test results are included in this report. for Radiated Spurious Emission is full test, in Conducted test items are verified, the worst case is Antenna OA5. Therefore, only performed the Antenna OA5 test results in this report.
 - 5G NR n77 MIMO mode support Antenna OA14+OA12,DA4+DA2,EA4+EA2,OA5+OA12,OA5+OA14, OA6+OA12,OA6+OA14,OA5+OA6, ,EA1_5+EA3_6,EA1_5+EA4,EA1_5+EA2,EA3_6+EA2, EA3_6+EA4, among when switching to Antenna EA4+EA2 ,EA1_5+EA3_6,EA1_5+EA4,EA1_5+EA2,EA3_6+EA2, EA3_6+EA4, there are Power back off mechanism and different Tune up power, in conducted power are Verified, the worst case is Antenna EA1_5+EA3_6 test results are included in this report for Radiated Spurious Emission is full test, in Conducted test items are verified, the worst case is Antenna OA5+OA6. Therefore, only performed the Antenna OA5+OA6 test results in this report.
 - For 5G NR n77 BW:10/15/20/30/40 support SCS15kHz&SCS30 kHz, after verified, the worst case is SCS30kHz. Therefore, only performed the SCS30kHz test results for Conducted test item in this report.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	Antenna (Type: Monopole)	Inpaq	ANT2	N/A	N/A	N/A
3.	Antenna (Type: Monopole)	Inpaq	ANT4	N/A	N/A	N/A
4.	Antenna (Type: Monopole)	Inpaq	ANT5	N/A	N/A	N/A
5.	Antenna (Type: Monopole)	Inpaq	ANT6	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

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

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



2.5 Frequency List of Low/Middle/High Channels

5G NR Band n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

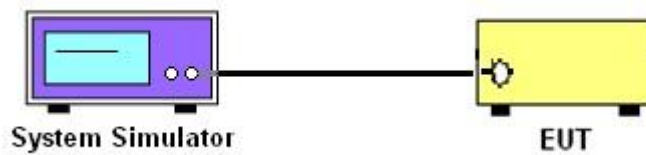
3 Conducted Test Items

3.1 Measuring Instruments

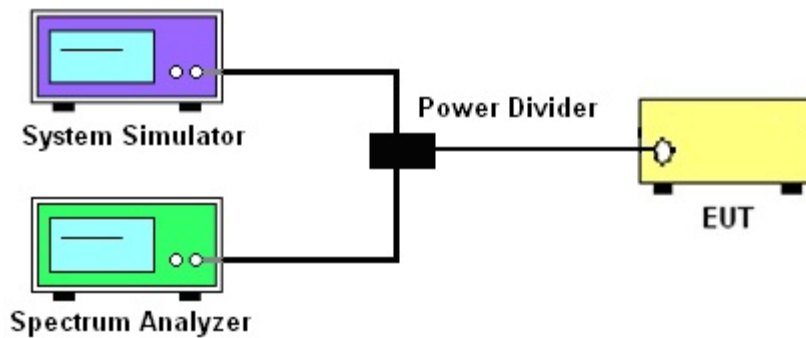
See list of measuring instruments of this test report.

3.1.1 Test Setup

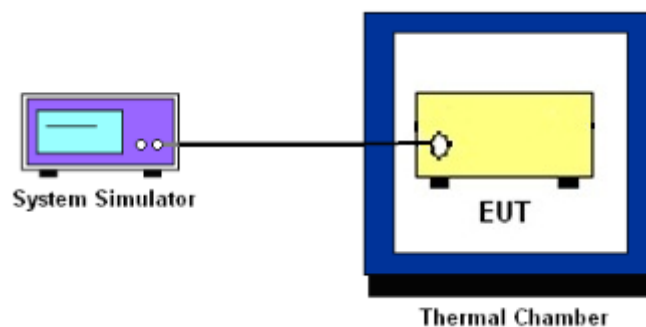
3.1.2 Conducted Output Power



3.1.3 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 EIRP

3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n77.

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



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

27.53 (n)(2)

(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. For $EBW < 20\text{MHz}$, set $RBW \geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. For $EBW \geq 20\text{MHz}$, set $RBW = 200\text{kHz}$ in the 1MHz band immediately outside and adjacent to the band edge.
5. Between 1 ~5 MHz from the band edge, $RBW=500$ kHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power $P(\text{Watts})$
9. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01\text{dB}$ into the spectrum analyzer offset.



3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

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

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)
10. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01$ dB into the spectrum analyzer offset.



3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

27.54

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

3.7.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

3.7.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

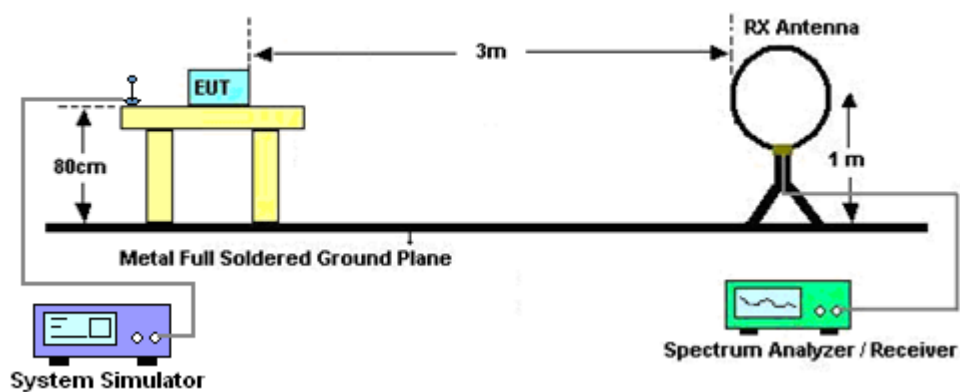
4 Radiated Test Items

4.1 Measuring Instruments

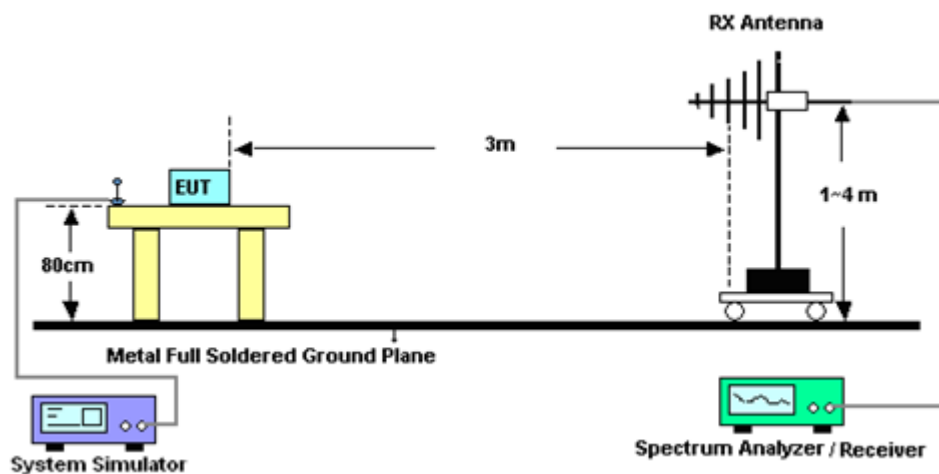
See list of measuring instruments of this test report.

4.1.1 Test Setup

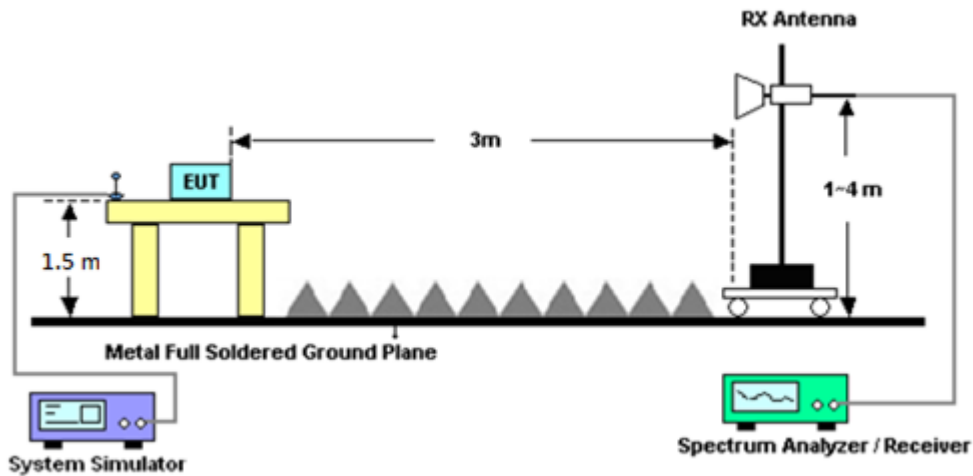
For radiated test below 30MHz



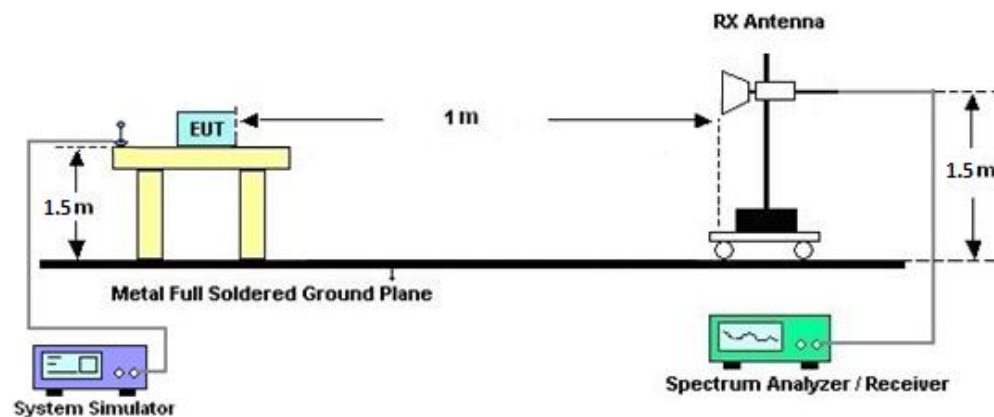
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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

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



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

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

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

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

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

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



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Programmable Power Supply	GW Instek	PSS-2005	EL890001	0V~64V ;0A~6A	Sep. 29, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 28, 2023	Conducted (TH03-HY)
Hygrometer	Testo	608-H11	34893241	NA	Mar. 18, 2022	Dec. 19, 2022~ Mar. 06, 2023	Mar. 17, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	May 05, 2022	Dec. 19, 2022~ Mar. 06, 2023	May 04, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 07, 2022	Dec. 19, 2022~ Mar. 06, 2023	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Dec. 19, 2022~ Mar. 06, 2023	Jun. 12, 2023	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	May 13, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 12, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	Dec. 31, 2022~ Mar. 11, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	40103 & 07	30MHz~1GHz	Apr. 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	Apr. 23, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 08, 2022	Dec. 31, 2022~ Mar. 11, 2023	Oct. 07, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz~18GHz	Mar. 10, 2022	Dec. 31, 2022~ Feb. 13, 2023	Mar. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1241	1GHz~18GHz	Jul. 25, 2022	Mar. 11, 2023	Jul. 25, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz~40GHz	May 14, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 13, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2022	Dec. 31, 2022~ Mar. 11, 2023	Mar. 22, 2023	Radiation (03CH12-HY)
Preamplifier	Aglient	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Dec. 31, 2022~ Mar. 11, 2023	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 21, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900269	1GHz~18GHz	Dec. 26, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 25, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 12, 2022	Dec. 31, 2022~ Jan. 10, 2023	Jan. 11, 2023	Radiation (03CH12-HY)
Signal Analyzer	Keysight	N9010B	MY60241055	NA	Jul. 22, 2022	Jan. 11, 2023~ Mar. 11, 2023	Jul. 21, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Dec. 31, 2022~ Mar. 11, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 15, 2022	Dec. 31, 2022~ Mar. 11, 2023	Mar. 14, 2023	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Oct. 03, 2022	Dec. 31, 2022~ Mar. 11, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Dec. 31, 2022~ Mar. 11, 2023	N/A	Radiation (03CH12-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.25 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.81 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<SISO Mode>

<SCS 15k>

<OA 5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	26.63	27.24	27.32	29.87	0.9705		
10	1	50		26.72	27.33	27.23				
10	25	12		26.74	27.35	27.51				
10	1	0		23.12	23.89	24.00				
10	1	51		23.48	24.32	24.02				
10	50	0		26.47	26.90	27.00				
10	1	1	QPSK	27.23	27.12	27.67				
10	1	50		27.21	27.57	27.67				
10	25	12		27.13	27.35	27.65				
10	1	0		24.23	24.10	24.11				
10	1	51		23.71	24.21	24.00				
10	50	0		26.33	26.53	26.52				
10	1	1	16-QAM	26.12	26.47	26.74	28.94	0.7834		
10	1	1	64-QAM	24.32	24.62	24.93				
10	1	1	256-QAM	22.35	22.72	22.61				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	27.74	27.60	27.51	29.97	0.9931		
15	1	77		27.70	27.40	27.45				
15	36	18		27.22	27.70	27.35				
15	1	0		24.43	24.77	24.05				
15	1	78		24.59	24.15	24.04				
15	75	0		27.58	27.23	27.71				
15	1	1	QPSK	27.77	27.56	27.23				
15	1	77		27.71	27.56	27.57				
15	36	18		27.13	27.45	27.35				
15	1	0		24.14	24.32	24.23				
15	1	78		24.52	24.12	24.13				
15	75	0		27.11	27.21	27.18				
15	1	1	16-QAM	27.15	27.12	27.03	29.35	0.8610		
15	1	1	64-QAM	25.62	25.79	25.32				
15	1	1	256-QAM	23.55	23.23	23.12				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	27.05	27.58	27.52	29.89	0.9750		
20	1	104		27.12	27.55	27.55				
20	50	25		27.11	27.68	27.52				
20	1	0		24.05	24.69	24.05				
20	1	105		24.53	24.32	24.38				
20	100	0		27.05	27.45	27.35				
20	1	1	QPSK	27.05	27.56	27.31				
20	1	104		27.13	27.55	27.45				
20	50	25		27.15	27.69	27.45				
20	1	0		24.12	25.12	24.01				
20	1	105		24.54	24.81	24.05				
20	100	0		27.02	27.05	26.88				
20	1	1	16-QAM	26.25	27.03	26.73	29.23	0.8375		
20	1	1	64-QAM	25.78	25.56	25.54				
20	1	1	256-QAM	23.02	23.32	23.28				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	27.12	27.55	27.23	29.91	0.9795		
30	1	158		27.21	27.32	27.50				
30	80	40		26.91	27.71	27.60				
30	1	0		23.71	24.22	24.00				
30	1	159		23.91	24.05	24.22				
30	160	0		26.75	27.22	27.03				
30	1	1	QPSK	27.13	27.61	27.35				
30	1	158		27.52	27.35	27.58				
30	80	40		27.13	27.71	27.63				
30	1	0		23.62	24.02	23.98				
30	1	159		24.00	24.00	24.02				
30	160	0		26.50	26.75	26.66				
30	1	1	16-QAM	26.75	27.45	26.85	29.65	0.9226		
30	1	1	64-QAM	24.79	25.48	25.02				
30	1	1	256-QAM	22.57	22.79	22.78				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	27.12	27.32	27.55	29.92	0.9817		
40	1	214		27.45	27.21	27.56				
40	108	54		27.25	27.61	27.58				
40	1	0		23.75	24.92	24.35				
40	1	215		24.15	24.22	24.31				
40	216	0		26.75	27.32	27.12				
40	1	1	QPSK	27.35	27.53	27.63				
40	1	214		27.62	27.45	27.63				
40	108	54		27.15	27.72	27.58				
40	1	0		23.66	24.05	24.12				
40	1	215		24.15	23.90	24.33				
40	216	0		26.32	26.72	26.67				
40	1	1	16-QAM	27.03	27.20	27.15	29.40	0.8710		
40	1	1	64-QAM	25.12	25.15	25.41				
40	1	1	256-QAM	22.71	22.85	22.91				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	27.20	27.45	27.71	29.92	0.9817		
50	1	268		27.55	27.44	27.56				
50	135	67		24.32	27.71	27.56				
50	1	0		23.75	24.05	24.55				
50	1	269		24.05	24.02	24.35				
50	270	0		26.80	27.12	27.00				
50	1	1	QPSK	27.23	27.51	27.72				
50	1	268		27.32	27.33	27.71				
50	135	67		27.45	27.70	27.55				
50	1	0		23.67	24.00	24.35				
50	1	269		24.32	24.00	24.32				
50	270	0		26.45	26.87	26.66				
50	1	1	16-QAM	26.71	27.00	27.60	29.80	0.9550		
50	1	1	64-QAM	25.00	25.20	25.80				
50	1	1	256-QAM	22.71	23.00	23.32				
Limit	EIRP < 1W			Result			Pass			



<EA1_5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	24.82	24.58	24.62	28.98	0.7907		
10	1	50		24.77	24.63	24.70				
10	25	12		24.98	24.65	24.82				
10	1	0		21.56	21.13	21.32				
10	1	51		21.52	21.23	21.47				
10	50	0		24.38	23.64	24.28				
10	1	1	QPSK	24.95	24.56	24.74				
10	1	50		24.87	24.64	24.82				
10	25	12		24.95	24.64	24.85				
10	1	0		21.54	21.13	21.32				
10	1	51		21.56	21.23	21.53				
10	50	0		23.93	23.66	23.80				
10	1	1	16-QAM	24.08	23.65	23.95	28.08	0.6427		
10	1	1	64-QAM	22.54	22.04	22.25				
10	1	1	256-QAM	20.86	20.32	20.54				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	24.88	24.52	24.58	29.01	0.7962		
15	1	77		24.74	24.57	24.72				
15	36	18		25.01	24.57	24.81				
15	1	0		21.55	21.17	21.26				
15	1	78		21.44	21.23	21.44				
15	75	0		24.49	24.18	24.21				
15	1	1	QPSK	24.92	24.54	24.62				
15	1	77		24.82	24.62	24.75				
15	36	18		24.96	24.69	24.76				
15	1	0		21.58	21.22	21.26				
15	1	78		21.54	21.24	21.52				
15	75	0		23.97	23.65	23.81				
15	1	1	16-QAM	24.07	23.71	23.75	28.07	0.6412		
15	1	1	64-QAM	22.57	22.13	22.10				
15	1	1	256-QAM	20.72	20.47	20.32				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	24.94	24.20	24.62	29.01	0.7962		
20	1	104		24.78	24.62	24.75				
20	50	25		24.96	24.66	24.72				
20	1	0		21.68	21.36	21.27				
20	1	105		21.53	21.41	21.54				
20	100	0		24.44	24.11	24.21				
20	1	1	QPSK	25.01	24.69	24.75				
20	1	104		24.87	24.68	24.82				
20	50	25		24.95	24.67	24.72				
20	1	0		21.75	21.35	21.36				
20	1	105		21.62	21.45	21.54				
20	100	0		24.01	23.67	23.78				
20	1	1	16-QAM	24.12	23.67	23.75	28.12	0.6486		
20	1	1	64-QAM	22.63	22.24	22.14				
20	1	1	256-QAM	20.92	20.54	20.41				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	24.82	24.80	24.53	28.91	0.7780		
30	1	158		24.56	24.65	24.87				
30	80	40		24.85	24.67	24.75				
30	1	0		21.53	21.26	21.25				
30	1	159		21.29	21.29	21.57				
30	160	0		24.28	24.14	24.24				
30	1	1	QPSK	24.91	24.62	24.54				
30	1	158		24.65	24.63	24.87				
30	80	40		24.85	24.68	24.83				
30	1	0		21.62	21.29	21.24				
30	1	159		21.32	21.28	21.54				
30	160	0		23.81	23.65	23.84				
30	1	1	16-QAM	24.13	23.62	23.84	28.13	0.6501		
30	1	1	64-QAM	22.65	22.24	22.21				
30	1	1	256-QAM	20.75	20.35	20.45				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	24.98	24.68	24.62	29.02	0.7980		
40	1	214		24.68	24.65	24.76				
40	108	54		24.86	24.65	24.65				
40	1	0		21.79	21.36	21.35				
40	1	215		21.47	21.35	21.51				
40	216	0		24.34	23.74	24.13				
40	1	1	QPSK	25.02	24.74	24.62				
40	1	214		24.75	24.63	24.95				
40	108	54		24.84	24.56	24.62				
40	1	0		21.84	21.43	21.19				
40	1	215		21.45	21.35	21.54				
40	216	0		23.86	24.15	23.65				
40	1	1	16-QAM	24.05	24.03	23.84	28.05	0.6383		
40	1	1	64-QAM	22.75	22.47	22.26				
40	1	1	256-QAM	20.98	20.58	20.45				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	25.01	24.77	24.63	29.02	0.7980		
50	1	268		24.65	24.69	24.84				
50	135	67		24.73	24.78	24.51				
50	1	0		21.79	21.49	21.26				
50	1	269		21.35	21.37	21.47				
50	270	0		24.25	24.22	24.12				
50	1	1	QPSK	25.02	24.85	24.62				
50	1	268		24.64	24.74	24.84				
50	135	67		24.77	24.66	24.64				
50	1	0		21.75	21.43	21.26				
50	1	269		21.30	21.32	21.42				
50	270	0		23.78	23.75	23.69				
50	1	1	16-QAM	23.98	23.87	23.64	27.98	0.6281		
50	1	1	64-QAM	22.74	22.65	22.45				
50	1	1	256-QAM	20.98	20.45	20.65				
Limit	EIRP < 1W			Result			Pass			



<SCS 30k>

<OA5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	26.90	27.61	27.51	29.91	0.9795		
10	1	22		26.80	27.45	27.53				
10	12	6		27.02	27.68	27.70				
10	1	0		23.12	23.81	23.61				
10	1	23		23.02	23.61	23.60				
10	24	0		27.03	27.71	27.63				
10	1	1	QPSK	27.01	27.60	27.41				
10	1	22		27.21	27.51	27.68				
10	12	6		27.12	27.68	27.64				
10	1	0		22.61	23.12	23.12				
10	1	23		22.51	23.11	23.12				
10	24	0		27.03	27.66	27.62				
10	1	1	16-QAM	27.13	27.45	27.52	29.72	0.9376		
10	1	1	64-QAM	26.12	26.66	26.54				
10	1	1	256-QAM	23.61	24.12	24.11				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	27.08	27.77	27.51	29.98	0.9954		
15	1	36		26.98	27.67	27.66				
15	18	9		27.16	27.68	27.68				
15	1	0		23.32	23.97	23.55				
15	1	37		23.31	23.81	23.76				
15	36	0		27.16	27.72	27.75				
15	1	1	QPSK	27.12	27.69	27.61				
15	1	36		26.94	27.68	27.61				
15	18	9		27.14	27.78	27.71				
15	1	0		22.88	23.61	23.22				
15	1	37		22.87	23.43	23.44				
15	36	0		27.18	27.74	27.77				
15	1	1	16-QAM	27.38	27.78	27.72	29.98	0.9954		
15	1	1	64-QAM	26.11	26.95	26.71				
15	1	1	256-QAM	23.94	24.52	24.21				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	27.06	27.62	27.31	29.99	0.9977		
20	1	49		27.09	27.63	27.62				
20	25	12		27.19	27.75	27.62				
20	1	0		23.37	23.99	23.49				
20	1	50		23.38	23.76	23.77				
20	50	0		27.16	27.77	27.61				
20	1	1	QPSK	27.14	27.79	27.32				
20	1	49		27.12	27.68	27.59				
20	25	12		27.21	27.74	27.64				
20	1	0		22.88	23.52	23.12				
20	1	50		22.91	23.34	23.41				
20	50	0		27.22	27.72	27.63				
20	1	1	16-QAM	27.41	27.74	27.71	29.94	0.9863		
20	1	1	64-QAM	26.18	26.84	26.32				
20	1	1	256-QAM	23.95	24.43	24.09				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	27.12	27.67	27.44	29.99	0.9977		
30	1	76		27.35	27.56	27.75				
30	36	18		27.19	27.75	27.64				
30	1	0		23.36	23.87	23.62				
30	1	77		23.68	23.77	23.91				
30	75	0		27.26	27.73	27.68				
30	1	1	QPSK	27.13	27.79	27.41				
30	1	76		27.48	27.57	27.77				
30	36	18		27.21	27.76	27.68				
30	1	0		22.85	23.44	23.06				
30	1	77		23.16	23.35	23.51				
30	75	0		27.28	27.77	27.74				
30	1	1	16-QAM	27.25	27.69	27.67	29.89	0.975		
30	1	1	64-QAM	26.25	26.82	26.55				
30	1	1	256-QAM	23.84	24.32	24.17				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	27.23	27.54	27.51	29.98	0.9954		
40	1	104		27.77	27.51	27.78				
40	50	25		27.33	27.73	27.55				
40	1	0		23.52	23.61	23.84				
40	1	105		24.04	23.75	24.01				
40	100	0		27.41	27.65	27.59				
40	1	1	QPSK	27.21	27.61	27.55				
40	1	104		27.77	27.54	27.78				
40	50	25		27.35	27.76	27.55				
40	1	0		23.06	23.37	23.41				
40	1	105		23.58	23.34	23.56				
40	100	0		27.41	27.64	27.61				
40	1	1	16-QAM	27.58	27.75	27.79	29.99	0.9977		
40	1	1	64-QAM	26.28	26.68	26.54				
40	1	1	256-QAM	23.98	24.27	24.27				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	27.18	27.41	27.58	29.99	0.9977		
50	1	131		27.65	27.44	27.67				
50	64	32		27.38	27.66	27.42				
50	1	0		23.38	23.64	23.88				
50	1	132		24.05	23.66	23.88				
50	128	0		27.38	27.75	27.48				
50	1	1	QPSK	27.14	27.43	27.65				
50	1	131		27.79	27.48	27.78				
50	64	32		27.41	27.71	27.46				
50	1	0		22.98	23.17	23.47				
50	1	132		23.68	23.28	23.55				
50	128	0		27.41	27.77	27.52				
50	1	1	16-QAM	27.51	27.77	27.72	29.97	0.9931		
50	1	1	64-QAM	26.15	26.46	26.68				
50	1	1	256-QAM	23.72	24.08	24.14				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	27.07	27.09	27.66	29.96	0.9908		
60	1	160		27.06	27.48	27.64				
60	81	40		27.23	27.71	27.64				
60	1	0		22.84	23.44	23.77				
60	1	161		23.35	23.62	23.78				
60	162	0		27.09	27.75	27.66				
60	1	1	QPSK	27.13	27.11	27.65				
60	1	160		27.15	27.51	27.67				
60	81	40		27.23	27.72	27.66				
60	1	0		22.36	22.91	23.38				
60	1	161		22.92	23.18	23.44				
60	162	0		27.04	27.76	27.68				
60	1	1	16-QAM	27.38	27.38	27.75	29.95	0.9886		
60	1	1	64-QAM	26.08	26.13	26.65				
60	1	1	256-QAM	23.82	24.05	24.38				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
70	1	1	PI/2 BPSK	27.05	27.09	27.48	29.98	0.9954		
70	1	187		27.36	27.49	27.55				
70	90	45		27.61	27.78	27.71				
70	1	0		23.37	23.42	23.69				
70	1	188		23.58	23.61	23.75				
70	180	0		27.57	27.69	27.76				
70	1	1	QPSK	27.12	27.25	27.56				
70	1	187		27.49	27.59	27.59				
70	90	45		27.64	27.73	27.68				
70	1	0		22.82	22.91	23.35				
70	1	188		23.18	23.28	23.38				
70	180	0		27.56	27.73	27.78				
70	1	1	16-QAM	27.36	27.36	27.79	29.99	0.9977		
70	1	1	64-QAM	26.12	26.23	26.61				
70	1	1	256-QAM	23.75	23.95	24.17				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	27.05	27.04	27.13	29.98	0.9954		
80	1	215		27.38	27.55	27.62				
80	108	54		27.78	27.75	27.73				
80	1	0		23.39	23.34	23.37				
80	1	216		23.58	23.75	23.85				
80	216	0		27.55	27.64	27.61				
80	1	1	QPSK	27.06	27.03	27.14				
80	1	215		27.38	27.56	27.63				
80	108	54		27.62	27.67	27.55				
80	1	0		22.94	22.84	22.88				
80	1	216		23.23	23.36	23.45				
80	216	0		27.61	27.66	27.64				
80	1	1	16-QAM	27.41	27.33	27.38	29.61	0.9141		
80	1	1	64-QAM	26.11	26.08	26.14				
80	1	1	256-QAM	23.78	24.08	24.17				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	27.05	27.62	27.08	29.99	0.9977		
90	1	243		27.61	27.63	27.59				
90	120	60		27.73	27.68	27.71				
90	1	0		23.34	23.32	23.33				
90	1	244		23.78	23.84	23.75				
90	243	0		27.54	27.63	27.71				
90	1	1	QPSK	27.06	27.66	27.11				
90	1	243		27.66	27.68	27.62				
90	120	60		27.72	27.79	27.78				
90	1	0		22.82	22.83	22.87				
90	1	244		23.43	23.47	23.42				
90	243	0		27.58	27.64	27.73				
90	1	1	16-QAM	27.29	26.68	27.32	29.52	0.8954		
90	1	1	64-QAM	26.11	26.13	26.17				
90	1	1	256-QAM	23.75	24.02	24.07				
Limit	EIRP < 1W			Result			Pass			



FCC RADIO TEST REPORT

Report No. : FG2N2510-01H

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 2.2 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
100	1	1	PI/2 BPSK	-	27.05	-	29.98	0.9954
100	1	271		-	27.65	-		
100	135	67		-	27.77	-		
100	1	0		-	23.34	-		
100	1	272		-	23.85	-		
100	270	0		-	27.56	-		
100	1	1	QPSK	-	27.04	-	29.98	0.9954
100	1	271		-	27.66	-		
100	135	67		-	27.78	-		
100	1	0		-	23.06	-		
100	1	272		-	23.46	-		
100	270	0		-	27.56	-		
100	1	1	16-QAM	-	27.32	-	29.52	0.8954
100	1	1	64-QAM	-	26.26	-		
100	1	1	256-QAM	-	24.09	-		
Limit	EIRP < 1W			Result			Pass	



<EA 1_5 Antenna>

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	24.92	24.62	24.73	29.03	0.7998		
10	1	22		24.77	24.54	24.74				
10	12	6		25.03	24.68	24.96				
10	1	0		21.50	21.25	21.37				
10	1	23		21.49	21.22	21.38				
10	24	0		24.54	24.19	24.36				
10	1	1	QPSK	24.95	24.61	24.75				
10	1	22		24.83	24.65	24.76				
10	12	6		24.98	24.68	24.85				
10	1	0		21.56	21.25	21.42				
10	1	23		21.47	21.24	21.45				
10	24	0		23.96	23.65	23.85				
10	1	1	16-QAM	24.02	23.60	23.79	28.02	0.6339		
10	1	1	64-QAM	22.54	22.32	22.38				
10	1	1	256-QAM	20.63	20.37	20.34				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	25.16	24.81	24.82	29.38	0.8670		
15	1	36		25.03	24.73	24.91				
15	18	9		25.21	24.84	25.04				
15	1	0		21.86	21.43	21.45				
15	1	37		21.72	21.44	21.53				
15	36	0		24.66	24.33	24.49				
15	1	1	QPSK	25.38	24.85	24.96				
15	1	36		25.12	24.77	25.01				
15	18	9		25.12	24.82	24.98				
15	1	0		21.90	21.45	21.53				
15	1	37		21.65	21.45	21.56				
15	36	0		24.21	23.86	24.03				
15	1	1	16-QAM	24.24	23.74	23.95	28.24	0.6668		
15	1	1	64-QAM	22.86	22.45	22.45				
15	1	1	256-QAM	21.03	20.56	20.65				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	25.01	24.65	24.62	29.24	0.8395		
20	1	49		24.98	24.75	24.88				
20	25	12		25.18	24.87	24.90				
20	1	0		21.93	21.45	21.35				
20	1	50		21.73	21.42	21.52				
20	50	0		24.64	24.33	24.43				
20	1	1	QPSK	25.24	24.78	24.97				
20	1	49		25.10	24.85	24.84				
20	25	12		25.22	24.83	25.01				
20	1	0		21.93	21.53	21.54				
20	1	50		21.65	21.45	21.58				
20	50	0		24.26	23.87	23.96				
20	1	1	16-QAM	24.24	23.95	23.95	28.24	0.6668		
20	1	1	64-QAM	22.88	22.45	22.45				
20	1	1	256-QAM	21.03	20.65	20.69				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	25.05	24.77	24.84	29.24	0.8395		
30	1	76		24.84	24.81	25.01				
30	36	18		25.07	24.95	25.03				
30	1	0		21.76	21.47	21.38				
30	1	77		21.56	21.42	21.65				
30	75	0		24.56	24.42	24.52				
30	1	1	QPSK	25.24	24.94	24.85				
30	1	76		24.95	24.94	25.11				
30	36	18		25.07	24.92	25.01				
30	1	0		21.75	21.46	21.45				
30	1	77		21.57	21.54	21.75				
30	75	0		24.13	23.95	24.03				
30	1	1	16-QAM	24.21	23.98	23.95	28.21	0.6622		
30	1	1	64-QAM	22.65	22.45	22.45				
30	1	1	256-QAM	21.02	20.87	20.65				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	25.25	24.83	24.74	29.27	0.8453		
40	1	104		24.92	24.83	25.02				
40	50	25		25.12	24.82	24.92				
40	1	0		21.92	21.52	21.45				
40	1	105		21.65	21.46	21.63				
40	100	0		24.60	24.35	24.32				
40	1	1	QPSK	25.27	24.98	24.75				
40	1	104		25.01	24.85	25.01				
40	50	25		25.13	24.87	24.88				
40	1	0		21.98	21.57	21.51				
40	1	105		21.64	21.57	21.74				
40	100	0		24.15	23.94	23.94				
40	1	1	16-QAM	24.35	24.00	23.95	28.35	0.6839		
40	1	1	64-QAM	22.93	22.48	22.43				
40	1	1	256-QAM	21.13	20.77	20.56				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	25.18	24.92	25.14	29.25	0.8414		
50	1	131		24.82	24.89	24.72				
50	64	32		25.03	24.85	25.06				
50	1	0		21.84	21.54	21.86				
50	1	132		21.52	21.49	21.48				
50	128	0		24.48	24.43	24.43				
50	1	1	QPSK	25.25	25.01	25.17				
50	1	131		24.84	24.89	24.72				
50	64	32		24.96	24.87	25.07				
50	1	0		21.96	21.65	21.98				
50	1	132		21.45	21.53	21.42				
50	128	0		23.97	23.91	23.98				
50	1	1	16-QAM	24.24	23.94	24.21	28.24	0.6668		
50	1	1	64-QAM	22.84	22.54	22.79				
50	1	1	256-QAM	21.18	20.76	21.08				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	25.04	24.81	24.66	29.09	0.8110		
60	1	160		24.74	24.76	24.81				
60	81	40		25.02	24.85	24.87				
60	1	0		21.62	21.45	21.35				
60	1	161		21.35	21.43	21.45				
60	162	0		24.46	24.36	24.32				
60	1	1	QPSK	25.09	24.89	24.76				
60	1	160		24.77	24.81	24.94				
60	81	40		25.01	24.92	24.86				
60	1	0		21.73	21.48	21.32				
60	1	161		21.36	21.47	21.53				
60	162	0		23.95	23.86	23.81				
60	1	1	16-QAM	24.02	23.87	23.72	28.02	0.6339		
60	1	1	64-QAM	22.75	22.84	22.26				
60	1	1	256-QAM	20.98	20.65	20.45				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
70	1	1	PI/2 BPSK	25.01	24.84	24.73	29.12	0.8166		
70	1	187		24.61	24.75	24.82				
70	90	45		24.89	24.85	24.89				
70	1	0		21.72	21.57	21.38				
70	1	188		21.31	21.42	21.57				
70	180	0		24.38	24.33	24.42				
70	1	1	QPSK	25.12	24.95	24.80				
70	1	187		24.64	24.73	24.93				
70	90	45		24.93	24.88	24.87				
70	1	0		21.75	21.52	21.42				
70	1	188		21.28	21.42	21.55				
70	180	0		23.93	23.89	23.91				
70	1	1	16-QAM	24.03	23.92	23.84	28.03	0.6353		
70	1	1	64-QAM	22.75	22.55	23.41				
70	1	1	256-QAM	20.93	20.75	20.56				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	24.98	24.85	24.81	29.07	0.8072		
80	1	215		24.75	24.81	24.79				
80	108	54		24.92	24.94	24.85				
80	1	0		21.69	21.54	21.53				
80	1	216		21.43	21.49	21.54				
80	216	0		24.35	24.35	24.35				
80	1	1	QPSK	25.07	24.88	24.93				
80	1	215		24.79	24.81	24.94				
80	108	54		24.94	24.90	24.86				
80	1	0		21.69	21.62	21.55				
80	1	216		21.46	21.54	21.53				
80	216	0		23.94	23.95	23.86				
80	1	1	16-QAM	24.02	23.86	24.91	28.91	0.7780		
80	1	1	64-QAM	22.85	22.75	22.58				
80	1	1	256-QAM	20.96	20.81	20.69				
Limit	EIRP < 1W			Result			Pass			

NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	25.03	24.92	24.91	29.13	0.8185		
90	1	243		24.76	24.75	24.88				
90	120	60		24.81	24.87	24.87				
90	1	0		21.75	21.59	21.62				
90	1	244		21.44	21.47	21.61				
90	243	0		24.31	24.36	24.42				
90	1	1	QPSK	25.13	24.92	24.93				
90	1	243		24.74	24.88	24.92				
90	120	60		24.86	24.87	24.91				
90	1	0		21.68	21.62	21.64				
90	1	244		21.44	21.53	21.61				
90	243	0		21.54	23.88	23.95				
90	1	1	16-QAM	24.11	23.99	24.03	28.11	0.6471		
90	1	1	64-QAM	22.68	22.50	22.63				
90	1	1	256-QAM	20.87	20.78	20.65				
Limit	EIRP < 1W			Result			Pass			



NR n77 HPUE Maximum Average Power [dBm] (GT - LC = 4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	-	24.76	-	28.85	0.7674		
100	1	271		-	24.66	-				
100	135	67		-	24.37	-				
100	1	0		-	21.46	-				
100	1	272		-	21.36	-				
100	270	0		-	24.25	-				
100	1	1	QPSK	-	24.85	-				
100	1	271		-	24.75	-				
100	135	67		-	24.74	-				
100	1	0		-	21.42	-				
100	1	272		-	21.39	-				
100	270	0		-	23.66	-				
100	1	1	16-QAM	-	23.85	-	27.85	0.6095		
100	1	1	64-QAM	-	22.53	-				
100	1	1	256-QAM	-	20.54	-				
Limit	EIRP < 1W			Result			Pass			



<MIMO Mode>

<SCS 15k>

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	24.22	24.31	24.28	22.06	22.54	23.07	26.37	26.50	26.72	29.05	0.8035
10	1	50		24.12	24.34	24.42	22.18	22.41	23.17	26.27	26.45	26.85		
10	26	13		24.24	24.35	24.37	22.00	22.28	22.92	26.25	26.44	26.70		
10	1	0		19.92	19.88	19.82	17.69	18.06	18.50	21.92	22.05	22.25		
10	1	51		19.70	20.00	20.02	17.73	18.00	18.74	21.85	22.05	22.41		
10	52	0		22.47	22.45	22.32	20.11	20.37	21.00	24.41	24.54	24.70		
10	1	1	16-QAM	24.32	24.25	24.32	22.06	22.34	22.92	26.27	26.40	26.62	28.82	0.7621
10	1	1	64-QAM	22.45	22.38	22.35	20.15	20.45	21.00	24.41	24.50	24.65		
10	1	1	256-QAM	19.12	19.05	19.00	16.78	17.02	17.62	21.05	21.15	21.40		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	24.32	24.32	24.20	22.17	22.51	23.00	26.39	26.52	26.65	29.05	0.8035
15	1	77		24.12	24.23	24.42	22.28	22.38	23.16	26.31	26.41	26.85		
15	39	19		24.35	24.42	24.45	22.08	22.32	22.90	26.37	26.51	26.75		
15	1	0		19.92	19.87	19.76	17.72	18.08	18.42	21.97	22.08	22.15		
15	1	78		19.75	19.85	19.92	17.83	17.85	18.65	21.91	21.97	22.34		
15	79	0		22.43	22.52	22.33	20.15	20.38	21.00	24.45	24.59	24.73		
15	1	1	16-QAM	24.22	24.28	24.12	22.12	22.47	22.94	26.31	26.48	26.58	28.78	0.7551
15	1	1	64-QAM	22.52	22.42	22.17	20.17	20.52	20.82	24.51	24.58	24.56		
15	1	1	256-QAM	19.15	19.20	18.93	16.78	17.15	17.48	21.14	21.31	21.28		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	24.62	24.82	24.52	22.66	22.51	22.91	26.76	26.83	26.80	29.28	0.8472
20	1	104		24.62	24.40	24.71	22.68	22.80	23.33	26.77	26.68	27.08		
20	53	26		24.52	24.48	24.34	22.53	22.50	23.12	26.65	26.61	26.78		
20	1	0		20.35	20.42	20.33	18.22	18.23	18.42	22.42	22.47	22.49		
20	1	105		20.22	20.22	20.52	18.32	18.40	18.91	22.38	22.41	22.80		
20	106	0		22.45	22.52	22.45	20.67	20.61	21.32	24.66	24.68	24.93		
20	1	1	16-QAM	24.43	24.57	24.32	22.85	22.91	23.33	26.72	26.83	26.86	29.06	0.8054
20	1	1	64-QAM	22.72	22.71	22.35	20.55	20.52	20.91	24.78	24.76	24.70		
20	1	1	256-QAM	19.22	19.12	18.92	17.10	17.00	17.35	21.30	21.20	21.22		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	24.67	24.72	24.53	22.45	22.90	22.71	26.71	26.91	26.72	29.26	0.8433
30	1	158		24.52	24.45	24.75	22.81	22.35	23.22	26.76	26.54	27.06		
30	80	40		24.45	24.71	24.43	22.62	22.82	23.00	26.64	26.88	26.78		
30	1	0		20.45	20.32	20.12	18.00	18.42	18.22	22.41	22.48	22.28		
30	1	159		20.12	20.12	20.41	18.32	18.00	18.72	22.32	22.20	22.66		
30	160	0		22.52	22.71	22.56	20.62	20.85	21.00	24.68	24.89	24.86		
30	1	1	16-QAM	24.52	24.52	24.33	22.62	23.00	22.91	26.68	26.84	26.69	29.04	0.8017
30	1	1	64-QAM	22.53	22.52	22.51	20.45	20.81	20.62	24.62	24.76	24.68		
30	1	1	256-QAM	19.22	19.12	19.00	17.33	17.53	17.35	21.39	21.41	21.26		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	24.82	24.75	24.82	22.52	22.91	22.70	26.83	26.94	26.90	29.32	0.8551
40	1	214		24.72	24.57	25.00	22.91	22.62	23.00	26.92	26.71	27.12		
40	108	54		20.25	24.72	24.42	18.45	22.75	22.91	22.45	26.86	26.74		
40	1	0		20.52	20.45	20.45	18.06	18.52	18.33	22.47	22.60	22.53		
40	1	215		20.45	20.22	20.45	18.55	18.33	18.88	22.61	22.39	22.75		
40	216	0		22.42	22.52	22.50	20.57	20.82	20.90	24.60	24.76	24.78		
40	1	1	16-QAM	24.62	24.62	24.50	22.72	23.22	22.91	26.78	26.99	26.79	29.19	0.8299
40	1	1	64-QAM	23.71	22.82	22.62	20.55	20.82	20.52	25.42	24.94	24.71		
40	1	1	256-QAM	19.22	19.32	19.22	17.22	17.41	17.22	21.34	21.48	21.34		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	24.85	24.75	24.82	22.67	22.83	22.82	26.91	26.91	26.94	29.28	0.8472
50	1	268		24.72	24.66	24.90	22.82	22.72	23.05	26.88	26.81	27.08		
50	135	67		24.52	24.82	24.46	22.71	22.80	22.72	26.72	26.94	26.69		
50	1	0		20.53	20.28	20.46	18.32	18.42	18.34	22.57	22.46	22.54		
50	1	269		20.32	20.12	20.35	18.32	18.42	18.66	22.44	22.36	22.60		
50	270	0		22.43	22.62	22.62	20.72	20.73	20.91	24.67	24.79	24.86		
50	1	1	16-QAM	24.53	24.61	24.67	22.82	23.10	22.91	26.77	26.93	26.89	29.13	0.8185
50	1	1	64-QAM	22.91	22.72	22.63	20.66	20.82	20.62	24.94	24.88	24.75		
50	1	1	256-QAM	19.33	19.35	19.35	17.45	17.55	17.42	21.50	21.55	21.50		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	21.97	21.62	21.82	21.66	21.72	21.98	24.83	24.68	24.91	28.96	0.7870
10	1	50		21.95	21.68	21.85	21.65	21.73	22.03	24.81	24.72	24.95		
10	26	13		21.99	21.66	21.87	21.76	21.76	22.03	24.89	24.72	24.96		
10	1	0		18.82	18.17	18.21	18.19	18.26	18.36	21.53	21.23	21.30		
10	1	51		18.43	18.24	18.45	18.26	18.36	18.53	21.36	21.31	21.50		
10	52	0		20.95	20.65	20.86	20.72	20.75	21.04	23.85	23.71	23.96		
10	1	1	16-QAM	22.10	21.67	21.89	21.68	21.72	21.95	24.91	24.71	24.93	28.93	0.7816
10	1	1	64-QAM	20.87	20.45	20.62	20.89	20.95	21.18	23.89	23.72	23.92		
10	1	1	256-QAM	17.69	17.38	17.42	17.24	17.26	17.51	20.48	20.33	20.48		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	21.99	21.57	21.62	21.69	21.72	21.85	24.85	24.66	24.75	28.90	0.7762
15	1	77		21.88	21.65	21.78	21.73	21.75	21.99	24.82	24.71	24.90		
15	39	19		21.94	21.63	21.76	21.77	21.73	21.97	24.87	24.69	24.88		
15	1	0		18.49	18.15	18.23	18.14	18.16	18.28	21.33	21.17	21.27		
15	1	78		18.44	18.17	18.37	18.29	18.32	18.44	21.38	21.26	21.42		
15	79	0		20.98	20.67	20.81	20.73	20.76	20.96	23.87	23.72	23.90		
15	1	1	16-QAM	22.17	21.84	21.65	21.65	21.54	21.89	24.93	24.70	24.78	28.93	0.7816
15	1	1	64-QAM	20.92	20.51	20.54	20.87	20.88	21.06	23.91	23.71	23.82		
15	1	1	256-QAM	17.68	17.32	17.35	17.28	17.35	17.45	20.49	20.35	20.41		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.01	21.68	21.76	21.83	21.81	21.90	24.93	24.76	24.84	28.93	0.7816
20	1	104		21.92	21.75	21.87	21.89	21.88	21.91	24.92	24.83	24.90		
20	53	26		21.96	21.69	21.74	21.81	21.76	21.94	24.90	24.74	24.85		
20	1	0		18.72	18.27	18.36	18.32	18.35	18.32	21.53	21.32	21.35		
20	1	105		18.52	18.26	18.47	18.45	18.31	18.42	21.50	21.30	21.46		
20	106	0		20.97	20.71	20.74	20.81	20.81	20.94	23.90	23.77	23.85		
20	1	1	16-QAM	22.20	21.95	21.87	21.78	21.95	21.87	25.01	24.96	24.88	29.01	0.7962
20	1	1	64-QAM	21.06	22.65	20.56	21.05	21.07	21.03	24.07	24.94	23.81		
20	1	1	256-QAM	17.81	17.54	17.48	17.32	17.45	17.38	20.58	20.51	20.44		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	21.92	21.65	21.57	21.86	21.84	21.98	24.90	24.76	24.79	29.01	0.7962
30	1	158		21.57	21.65	21.76	21.92	21.98	22.23	24.76	24.83	25.01		
30	80	40		20.83	20.65	21.78	20.92	20.69	22.07	23.89	23.68	24.94		
30	1	0		18.57	18.24	18.17	18.40	18.36	18.45	21.50	21.31	21.32		
30	1	159		18.20	18.24	18.43	18.47	18.49	18.57	21.35	21.38	21.51		
30	160	0		20.82	20.69	20.74	20.89	20.95	21.02	23.87	23.83	23.89		
30	1	1	16-QAM	22.13	21.83	21.82	21.84	21.68	21.95	25.00	24.77	24.90	29.00	0.7943
30	1	1	64-QAM	20.85	20.65	20.52	21.02	21.06	21.15	23.95	23.87	23.86		
30	1	1	256-QAM	17.65	17.32	17.42	17.54	17.51	17.54	20.61	20.43	20.49		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.12	21.73	21.73	22.01	21.98	22.03	25.08	24.87	24.89	29.10	0.8128
40	1	214		21.77	21.69	21.95	21.99	22.01	22.23	24.89	24.86	25.10		
40	108	54		21.85	21.64	21.71	21.99	21.98	21.94	24.93	24.82	24.84		
40	1	0		18.73	18.47	18.20	18.53	18.56	15.51	21.64	21.53	20.07		
40	1	215		18.36	18.33	18.42	18.54	18.57	18.72	21.46	21.46	21.58		
40	216	0		20.83	20.69	20.65	21.03	20.98	20.97	23.94	23.85	23.82		
40	1	1	16-QAM	22.32	21.99	21.78	22.03	22.02	22.03	25.19	25.02	24.92	29.19	0.8299
40	1	1	64-QAM	21.01	20.69	20.58	21.20	21.24	21.18	24.12	23.98	23.90		
40	1	1	256-QAM	17.95	17.27	17.45	17.64	17.66	17.65	20.81	20.48	20.56		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.01	21.86	21.67	22.06	21.98	21.92	25.05	24.93	24.81	29.05	0.8035
50	1	268		21.65	21.74	21.55	21.98	22.10	22.19	24.83	24.93	24.89		
50	135	67		21.71	21.72	21.56	21.93	21.98	21.92	24.83	24.86	24.75		
50	1	0		18.73	18.45	18.18	18.54	18.54	18.39	21.65	21.51	21.30		
50	1	269		18.24	18.32	18.34	18.54	18.64	18.86	21.40	21.49	21.62		
50	270	0		20.73	20.72	20.62	20.91	20.91	20.94	23.83	23.83	23.79		
50	1	1	16-QAM	22.45	21.98	21.68	21.95	22.03	21.96	25.22	25.02	24.83	29.22	0.8356
50	1	1	64-QAM	20.95	20.75	20.56	21.24	21.26	21.15	24.11	24.02	23.88		
50	1	1	256-QAM	17.88	17.54	17.45	17.65	17.56	17.54	20.78	20.56	20.51		
Limit	EIRP < 1W			Result									Pass	



<SCS 30k>

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	24.30	24.29	24.18	23.59	23.72	23.91	26.97	27.02	27.06	29.35	0.8610
10	1	22		24.07	24.20	24.19	23.51	23.52	23.91	26.81	26.88	27.06		
10	12	6		24.32	24.33	24.30	23.63	23.66	23.97	27.00	27.02	27.15		
10	1	0		19.96	19.90	19.81	19.25	19.38	19.57	22.63	22.66	22.70		
10	1	23		19.75	19.77	19.82	19.11	19.11	19.49	22.45	22.46	22.67		
10	24	0		22.37	22.32	22.35	21.68	21.75	22.11	25.05	25.05	25.24		
10	1	1	16-QAM	24.09	24.50	24.38	23.57	23.69	23.82	26.85	27.12	27.12	29.32	0.8551
10	1	1	64-QAM	22.44	22.44	22.33	21.50	21.72	21.86	25.01	25.11	25.11		
10	1	1	256-QAM	19.04	19.05	18.99	18.45	18.54	18.75	21.77	21.81	21.88		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	24.21	24.22	24.16	24.05	24.09	24.04	27.14	27.17	27.11	29.45	0.8810
15	1	36		23.91	24.00	24.21	23.96	23.79	24.06	26.95	26.91	27.15		
15	19	9		24.08	24.10	24.16	24.01	24.07	24.31	27.06	27.10	27.25		
15	1	0		19.71	19.75	19.65	19.74	19.82	19.88	22.74	22.80	22.78		
15	1	37		19.41	19.47	19.72	19.62	19.52	19.85	22.53	22.51	22.80		
15	38	0		22.13	22.19	22.26	22.10	22.13	22.38	25.13	25.17	25.33		
15	1	1	16-QAM	24.03	24.00	24.00	24.10	24.26	24.35	27.08	27.14	27.19	29.39	0.8690
15	1	1	64-QAM	22.35	22.40	22.31	22.19	22.22	22.26	25.28	25.32	25.30		
15	1	1	256-QAM	18.71	18.68	18.57	18.34	18.41	18.51	21.54	21.56	21.55		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	24.39	24.33	24.07	24.04	24.20	24.00	27.23	27.28	27.05	29.48	0.8872
20	1	49		24.03	23.98	24.21	24.03	23.78	24.09	27.04	26.89	27.16		
20	25	12		24.05	24.16	24.18	23.99	24.07	24.30	27.03	27.13	27.25		
20	1	0		19.85	19.81	19.63	19.75	19.87	19.74	22.81	22.85	22.70		
20	1	50		19.50	19.46	19.74	19.62	19.41	19.73	22.57	22.45	22.75		
20	51	0		22.13	22.21	22.24	22.07	22.14	22.35	25.11	25.19	25.31		
20	1	1	16-QAM	24.39	24.32	24.16	23.94	24.13	23.98	27.18	27.24	27.08	29.44	0.8790
20	1	1	64-QAM	22.57	22.46	22.27	22.23	22.41	22.20	25.41	25.45	25.25		
20	1	1	256-QAM	18.74	18.65	18.42	18.52	18.72	18.56	21.64	21.70	21.50		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	24.60	24.53	24.32	23.93	24.11	23.81	27.29	27.34	27.08	29.54	0.8995
30	1	76		24.33	24.15	24.45	24.05	23.69	24.20	27.20	26.94	27.34		
30	39	19		24.29	24.44	24.32	23.92	24.01	24.14	27.12	27.24	27.24		
30	1	0		20.13	20.05	19.91	19.64	19.83	19.54	22.90	22.95	22.74		
30	1	77		19.90	19.72	20.01	19.71	19.38	19.86	22.82	22.56	22.95		
30	78	0		22.37	22.46	22.42	22.01	22.08	22.20	25.20	25.28	25.32		
30	1	1	16-QAM	24.67	24.58	24.40	23.83	24.03	23.80	27.28	27.32	27.12	29.52	0.8954
30	1	1	64-QAM	22.79	22.74	22.56	22.16	22.31	22.00	25.50	25.54	25.30		
30	1	1	256-QAM	19.00	18.95	18.74	18.43	18.63	18.36	21.73	21.80	21.56		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	24.79	24.52	24.48	24.05	24.24	23.91	27.45	27.39	27.21	29.65	0.9226
40	1	104		24.60	24.19	24.45	24.15	23.75	24.24	27.39	26.99	27.36		
40	53	26		24.31	24.32	24.18	24.00	24.00	24.10	27.17	27.17	27.15		
40	1	0		20.30	20.05	20.03	19.74	19.95	19.64	23.04	23.01	22.85		
40	1	105		20.15	19.72	20.04	19.80	19.52	19.93	22.99	22.63	23.00		
40	106	0		22.52	22.41	22.35	22.05	22.05	22.13	25.30	25.24	25.25		
40	1	1	16-QAM	24.79	24.59	24.57	24.00	24.15	23.83	27.42	27.39	27.23	29.62	0.9162
40	1	1	64-QAM	22.92	22.72	22.76	22.25	22.45	22.10	25.61	25.60	25.45		
40	1	1	256-QAM	19.15	18.96	18.92	18.57	18.78	18.48	21.88	21.88	21.72		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	24.68	24.48	24.68	24.00	24.22	24.02	27.36	27.36	27.37	29.57	0.9057
50	1	131		24.42	24.10	24.37	23.95	23.82	24.18	27.20	26.97	27.29		
50	67	33		24.29	24.40	24.23	24.06	24.00	24.00	27.19	27.21	27.13		
50	1	0		20.16	20.00	20.22	19.74	19.90	19.73	22.97	22.96	22.99		
50	1	132		20.00	19.65	19.95	19.67	19.56	19.89	22.85	22.62	22.93		
50	133	0		22.49	22.44	22.39	22.10	22.11	22.12	25.31	25.29	25.27		
50	1	1	16-QAM	24.73	22.41	24.70	24.00	22.11	24.00	27.39	25.27	27.37	29.59	0.9099
50	1	1	64-QAM	22.87	21.92	22.90	22.29	21.62	22.24	25.60	24.78	25.59		
50	1	1	256-QAM	19.07	18.91	19.05	18.51	18.59	18.55	21.81	21.76	21.82		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	24.54	24.29	23.74	23.71	23.96	24.26	27.16	27.14	27.02	29.68	0.9290
60	1	160		24.90	24.00	24.00	24.00	23.81	24.51	27.48	26.92	27.27		
60	81	40		24.53	24.42	23.68	24.07	24.01	24.31	27.32	27.23	27.02		
60	1	0		19.92	19.78	19.15	19.35	19.65	19.90	22.65	22.73	22.55		
60	1	161		20.35	19.56	19.45	19.61	19.47	20.16	23.01	22.53	22.83		
60	162	0		22.63	22.35	21.75	22.07	22.05	22.40	25.37	25.21	25.10		
60	1	1	16-QAM	24.47	24.35	23.67	23.68	23.85	24.08	27.10	27.12	26.89	29.32	0.8551
60	1	1	64-QAM	22.33	22.47	21.57	21.80	22.20	22.45	25.08	25.35	25.04		
60	1	1	256-QAM	18.74	18.75	17.89	18.17	18.46	18.72	21.47	21.62	21.34		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	24.55	24.24	24.57	24.00	23.87	24.08	27.29	27.07	27.34	29.54	0.8995
70	1	187		23.90	23.90	24.21	23.47	23.76	23.90	26.70	26.84	27.07		
70	95	47		24.32	24.42	24.40	24.15	24.06	24.00	27.25	27.25	27.21		
70	1	0		20.05	19.81	20.05	19.61	19.56	19.90	22.85	22.70	22.99		
70	1	188		19.44	19.52	19.75	19.15	19.45	19.62	22.31	22.50	22.70		
70	189	0		22.34	22.37	22.50	22.11	22.08	22.17	25.24	25.24	25.35		
70	1	1	16-QAM	24.58	24.30	24.64	23.90	23.86	24.09	27.26	27.10	27.38	29.58	0.9078
70	1	1	64-QAM	22.71	22.39	22.74	22.25	22.16	22.41	25.50	25.29	25.59		
70	1	1	256-QAM	18.96	18.71	18.92	18.22	18.19	18.44	21.62	21.47	21.70		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	24.81	24.68	24.66	23.25	23.24	23.45	27.11	27.03	27.11	29.31	0.8531
80	1	215		24.08	24.22	24.33	23.05	23.35	23.48	26.61	26.82	26.94		
80	109	54		24.63	24.62	24.62	23.49	23.46	23.41	27.11	27.09	27.07		
80	1	0		20.42	20.22	20.24	18.96	18.87	19.05	22.76	22.61	22.70		
80	1	216		19.79	19.79	19.90	18.90	19.09	19.16	22.38	22.46	22.56		
80	217	0		22.63	22.64	22.64	21.48	21.59	21.66	25.10	25.16	25.19		
80	1	1	16-QAM	24.72	24.63	24.54	23.39	23.29	23.55	27.12	27.02	27.08	29.32	0.8551
80	1	1	64-QAM	23.17	22.95	23.92	21.30	21.29	21.51	25.35	25.21	25.89		
80	1	1	256-QAM	19.25	19.12	19.05	17.68	17.74	17.93	21.55	21.49	21.54		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	24.68	24.62	24.60	23.35	23.38	23.39	27.08	27.05	27.05	29.28	0.8472
90	1	243		24.06	24.17	24.22	23.71	23.85	23.72	26.90	27.02	26.99		
90	123	61		24.45	24.60	24.57	23.44	23.45	23.46	26.98	27.07	27.06		
90	1	0		20.47	20.43	20.25	19.10	19.00	18.94	22.85	22.78	22.65		
90	1	244		19.82	19.92	19.85	19.05	19.18	19.20	22.46	22.58	22.55		
90	245	0		22.55	22.54	22.61	21.45	21.51	21.58	25.05	25.07	25.14		
90	1	1	16-QAM	24.75	24.63	24.56	23.36	23.35	23.35	27.12	27.05	27.01	29.32	0.8551
90	1	1	64-QAM	23.19	23.15	23.06	21.70	21.61	21.67	25.52	25.46	25.43		
90	1	1	256-QAM	19.40	19.35	19.31	17.60	17.59	17.66	21.60	21.57	21.57		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 2.2 dBi														
BW	RB	RB	Mod	Antenna OA5			Antenna OA6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	24.36	-	-	23.52	-	-	26.97	-	29.28	0.8472
100	1	271		-	23.84	-	-	23.60	-	-	26.73	-		
100	137	68		-	24.37	-	-	23.75	-	-	27.08	-		
100	1	0		-	20.00	-	-	19.25	-	-	22.65	-		
100	1	272		-	19.49	-	-	19.35	-	-	22.43	-		
100	273	0		-	22.40	-	-	21.75	-	-	25.10	-		
100	1	1	16-QAM	-	24.53	-	-	23.57	-	-	27.09	-	29.29	0.8492
100	1	1	64-QAM	-	22.94	-	-	22.14	-	-	25.57	-		
100	1	1	256-QAM	-	19.07	-	-	18.20	-	-	21.67	-		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	22.03	21.66	21.85	21.84	21.82	21.95	24.95	24.75	24.91	29.07	0.8072
10	1	22		21.96	21.63	21.88	21.69	21.82	22.02	24.84	24.74	24.96		
10	12	6		22.13	21.73	21.95	21.87	21.85	22.17	25.01	24.80	25.07		
10	1	0		18.57	18.14	18.36	18.26	18.35	18.52	21.43	21.26	21.45		
10	1	23		18.34	18.18	18.35	18.21	18.25	18.45	21.29	21.23	21.41		
10	24	0		21.07	20.66	20.88	20.78	20.87	21.15	23.94	23.78	24.03		
10	1	1	16-QAM	22.24	21.82	22.06	21.68	21.64	21.88	24.98	24.74	24.98	28.98	0.7907
10	1	1	64-QAM	21.15	20.75	20.95	20.76	20.64	20.97	23.97	23.71	23.97		
10	1	1	256-QAM	17.75	17.35	17.48	17.55	17.45	17.79	20.66	20.41	20.65		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	22.16	21.74	21.78	21.84	21.76	21.92	25.01	24.76	24.86	29.04	0.8017
15	1	36		21.92	21.69	21.86	21.82	21.78	21.96	24.88	24.75	24.92		
15	19	9		22.15	21.79	21.89	21.84	21.83	22.16	25.01	24.82	25.04		
15	1	0		18.64	18.19	18.24	18.28	18.25	18.45	21.47	21.23	21.36		
15	1	37		18.45	18.25	18.35	18.35	18.24	18.54	21.41	21.26	21.46		
15	38	0		21.15	20.75	20.81	20.86	20.92	21.06	24.02	23.85	23.95		
15	1	1	16-QAM	22.27	21.94	22.02	21.85	21.75	21.76	25.08	24.86	24.90	29.08	0.8091
15	1	1	64-QAM	21.26	20.84	20.91	20.87	20.80	20.86	24.08	23.83	23.90		
15	1	1	256-QAM	17.76	17.41	17.40	17.56	17.54	17.69	20.67	20.49	20.56		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	22.18	21.75	21.77	21.98	21.85	21.85	25.09	24.81	24.82	29.09	0.8110
20	1	49		21.92	21.68	21.88	21.83	21.82	21.96	24.89	24.76	24.93		
20	25	12		22.05	21.82	21.84	21.92	21.95	21.88	25.00	24.90	24.87		
20	1	0		18.72	18.32	18.26	18.35	18.35	18.35	21.55	21.35	21.32		
20	1	50		18.45	18.21	18.33	18.36	18.24	18.51	21.42	21.24	21.43		
20	51	0		21.11	20.86	20.83	20.86	20.88	21.05	24.00	23.88	23.95		
20	1	1	16-QAM	22.25	22.06	21.92	21.88	21.75	21.75	25.08	24.92	24.85	29.08	0.8091
20	1	1	64-QAM	20.85	20.57	20.86	21.05	20.98	20.84	23.96	23.79	23.86		
20	1	1	256-QAM	17.85	17.54	17.42	17.54	17.46	17.75	20.71	20.51	20.60		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	22.05	21.78	21.68	21.96	21.92	22.02	25.02	24.86	24.86	29.08	0.8091
30	1	76		21.77	21.75	21.90	21.98	21.98	22.24	24.89	24.88	25.08		
30	39	19		20.95	20.79	21.84	21.09	21.02	22.01	24.03	23.92	24.94		
30	1	0		18.52	18.24	18.24	18.45	18.45	18.53	21.50	21.36	21.40		
30	1	77		18.32	18.27	18.45	18.42	18.54	18.85	21.38	21.42	21.66		
30	78	0		20.95	20.74	20.85	20.97	21.02	21.17	23.97	23.89	24.02		
30	1	1	16-QAM	22.24	21.92	21.95	21.95	21.92	21.86	25.11	24.93	24.92	29.11	0.8147
30	1	1	64-QAM	21.18	20.86	20.85	21.06	20.92	21.00	24.13	23.90	23.94		
30	1	1	256-QAM	17.74	17.34	17.40	17.82	17.76	17.85	20.79	20.56	20.64		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	22.22	21.92	21.74	22.16	22.02	22.05	25.20	24.98	24.91	29.20	0.8318
40	1	104		21.89	21.78	21.94	22.12	22.01	22.27	25.02	24.91	25.12		
40	53	26		22.01	21.73	21.75	22.09	22.04	22.04	25.06	24.90	24.91		
40	1	0		18.75	18.38	18.21	18.76	18.52	18.57	21.77	21.46	21.40		
40	1	105		18.35	18.25	18.42	18.72	18.65	18.82	21.55	21.46	21.63		
40	106	0		20.97	20.76	20.77	21.10	21.06	21.01	24.05	23.92	23.90		
40	1	1	16-QAM	22.45	22.08	22.01	22.15	21.96	21.86	25.31	25.03	24.95	29.31	0.8531
40	1	1	64-QAM	21.25	20.95	20.56	21.22	21.09	21.25	24.25	24.03	23.93		
40	1	1	256-QAM	17.89	17.65	17.48	18.02	17.85	17.82	20.97	20.76	20.66		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	22.12	21.87	21.68	22.08	22.01	21.85	25.11	24.95	24.78	29.11	0.8147
50	1	131		21.65	21.73	21.84	22.05	22.15	22.17	24.86	24.96	25.02		
50	67	33		21.84	21.77	21.68	22.02	22.06	21.88	24.94	24.93	24.79		
50	1	0		18.67	18.42	18.25	18.54	18.52	18.42	21.62	21.48	21.35		
50	1	132		18.29	18.32	18.35	18.46	18.65	18.62	21.38	21.50	21.50		
50	133	0		20.84	20.76	20.75	21.05	21.01	20.98	23.96	23.90	23.88		
50	1	1	16-QAM	22.35	22.14	21.98	21.96	21.81	21.77	25.17	24.99	24.89	29.17	0.8260
50	1	1	64-QAM	20.85	20.72	20.68	21.35	21.24	21.04	24.12	24.00	23.87		
50	1	1	256-QAM	17.84	17.54	17.37	17.67	17.63	17.54	20.77	20.60	20.47		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
60	1	1	QPSK	22.72	21.74	22.81	22.21	21.86	22.61	25.48	24.81	25.72	29.94	0.9863
60	1	160		22.85	21.65	22.92	22.00	21.98	22.92	25.46	24.83	25.93		
60	81	40		22.84	21.75	22.92	22.63	22.02	22.93	25.75	24.90	25.94		
60	1	0		19.12	18.27	19.23	18.74	18.35	19.05	21.94	21.32	22.15		
60	1	161		19.24	18.24	19.35	19.16	18.45	19.52	22.21	21.36	22.45		
60	162	0		21.73	20.74	21.94	21.58	20.95	21.97	24.67	23.86	24.97		
60	1	1	16-QAM	22.69	21.99	22.73	22.22	21.85	22.64	25.47	24.93	25.70	29.70	0.9333
60	1	1	64-QAM	21.85	20.82	21.84	21.25	20.89	21.57	24.57	23.87	24.72		
60	1	1	256-QAM	18.21	17.49	18.32	18.04	17.64	18.42	21.14	20.58	21.38		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
70	1	1	QPSK	22.06	21.89	21.72	21.98	22.01	22.06	25.03	24.96	24.90	29.03	0.7998
70	1	187		21.65	21.71	21.90	21.96	22.13	22.04	24.82	24.94	24.98		
70	95	47		21.80	21.75	21.82	22.01	22.01	22.17	24.92	24.89	25.01		
70	1	0		18.57	18.35	18.11	18.37	18.31	18.37	21.48	21.34	21.25		
70	1	188		18.13	18.21	18.54	18.43	18.46	18.62	21.29	21.35	21.59		
70	189	0		20.73	20.73	20.77	20.89	21.01	21.00	23.82	23.88	23.90		
70	1	1	16-QAM	22.26	22.21	21.94	21.89	21.81	21.97	25.09	25.02	24.97	29.09	0.8110
70	1	1	64-QAM	20.84	20.68	20.81	21.23	21.14	20.97	24.05	23.93	23.90		
70	1	1	256-QAM	17.74	17.65	17.35	17.54	17.45	17.57	20.65	20.56	20.47		
Limit	EIRP < 1W			Result									Pass	



Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
80	1	1	QPSK	22.04	21.95	21.76	21.92	21.87	21.88	24.99	24.92	24.83	28.99	0.7925
80	1	215		21.69	21.75	21.83	21.91	21.87	21.97	24.81	24.82	24.91		
80	109	54		21.82	21.73	21.72	22.06	22.03	22.06	24.95	24.89	24.90		
80	1	0		18.48	18.28	18.32	18.39	18.36	18.38	21.45	21.33	21.36		
80	1	216		18.24	18.28	18.25	18.45	18.45	18.56	21.36	21.38	21.42		
80	217	0		20.78	20.77	20.78	21.09	21.02	20.99	23.95	23.91	23.90		
80	1	1	16-QAM	22.20	22.09	22.01	21.84	21.76	21.75	25.03	24.94	24.89	29.03	0.7998
80	1	1	64-QAM	21.16	20.88	20.83	20.92	20.91	20.89	24.05	23.91	23.87		
80	1	1	256-QAM	17.71	17.54	17.44	17.68	17.50	17.65	20.71	20.53	20.56		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
90	1	1	QPSK	22.03	21.98	21.92	21.95	21.89	21.94	25.00	24.95	24.94	29.01	0.7962
90	1	243		21.68	21.81	21.82	21.83	21.99	22.05	24.77	24.91	24.95		
90	123	61		21.72	21.78	21.85	21.98	22.06	22.15	24.86	24.93	25.01		
90	1	0		18.42	18.34	18.35	18.42	18.36	18.32	21.43	21.36	21.35		
90	1	244		18.19	18.35	18.38	18.52	18.44	18.54	21.37	21.41	21.47		
90	245	0		20.78	20.77	20.76	20.92	21.01	21.15	23.86	23.90	23.97		
90	1	1	16-QAM	22.24	22.12	22.01	21.85	21.82	21.70	25.06	24.98	24.87	29.06	0.8054
90	1	1	64-QAM	20.99	21.05	20.93	20.96	20.85	20.95	23.98	23.96	23.95		
90	1	1	256-QAM	17.65	17.52	17.54	17.67	17.72	17.63	20.67	20.63	20.60		
Limit	EIRP < 1W			Result									Pass	

Part27Q NR n77 HPUE Maximum Average Power [dBm], DG = 4 dBi														
BW	RB	RB	Mod	Antenna EA 1_5			Antenna EA 3_6			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
100	1	1	QPSK	-	22.02	-	-	21.98	-	-	25.01	-	29.01	0.7962
100	1	271		-	21.86	-	-	21.99	-	-	24.94	-		
100	137	68		-	21.83	-	-	22.05	-	-	24.95	-		
100	1	0		-	18.45	-	-	18.22	-	-	21.35	-		
100	1	272		-	18.32	-	-	18.52	-	-	21.43	-		
100	273	0		-	20.78	-	-	20.94	-	-	23.87	-		
100	1	1	16-QAM	-	22.14	-	-	21.83	-	-	25.00	-	29.00	0.7943
100	1	1	64-QAM	-	21.04	-	-	20.92	-	-	23.99	-		
100	1	1	256-QAM	-	17.63	-	-	17.64	-	-	20.65	-		
Limit	EIRP < 1W			Result									Pass	

**FR1 n77**

<SISO Mode>

<OA 5 Antenna>

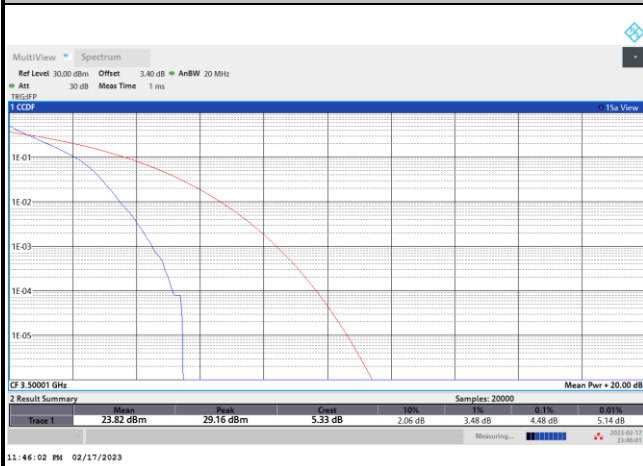
Peak-to-Average Ratio

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	4.48	5.68	6.54	6.70	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.68				PASS

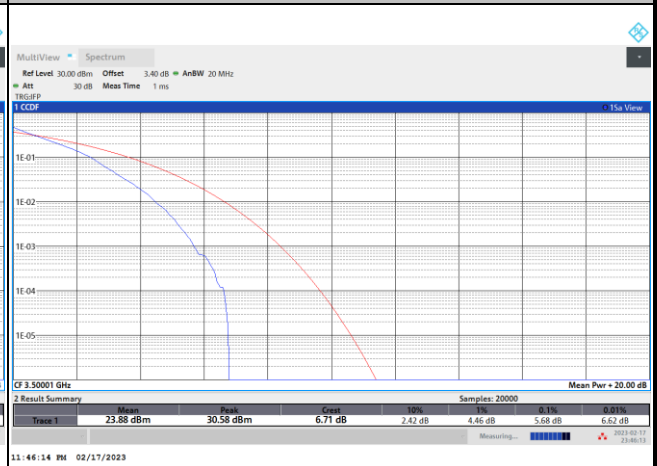


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

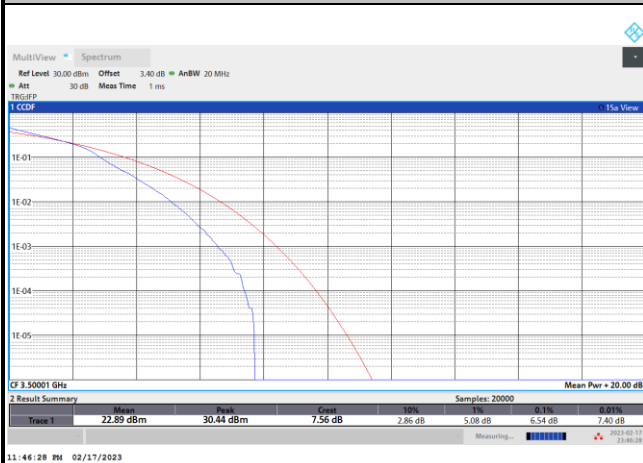
PI/2 BPSK



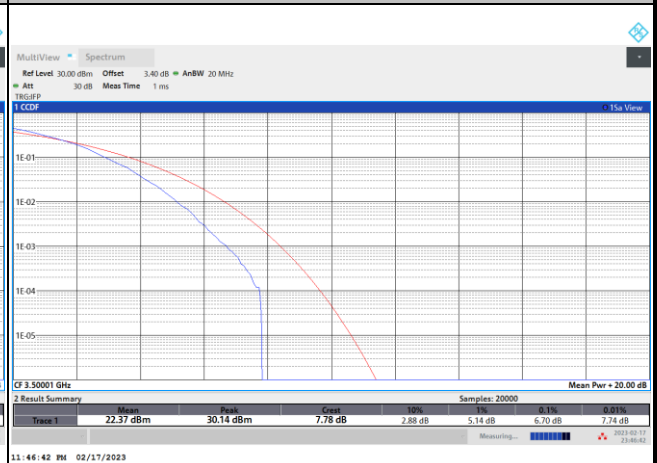
QPSK



16QAM



64QAM



256QAM



**26dB Bandwidth**

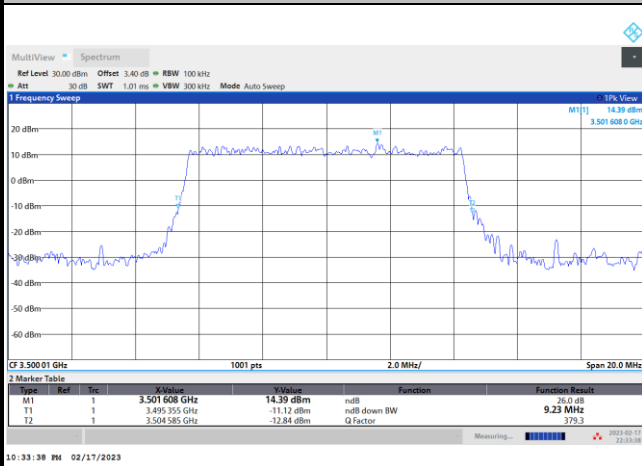
Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	9.23	13.70	18.66	-	27.87	38.12	48.35	60.54
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	66.85	80.24	89.73	99.70				

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.25	9.09	14.48	14.84	19.34	19.22	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.19	9.25	14.66	14.99	19.14	19.18	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.95	28.77	40.36	40.44	49.95	50.15	60.66	60.54
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	29.01	29.13	40.20	40.36	49.95	50.25	60.42	60.42
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.35	70.35	80.24	80.40	90.45	90.27	100.70	100.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.35	70.35	80.56	80.24	90.45	90.27	100.50	100.70



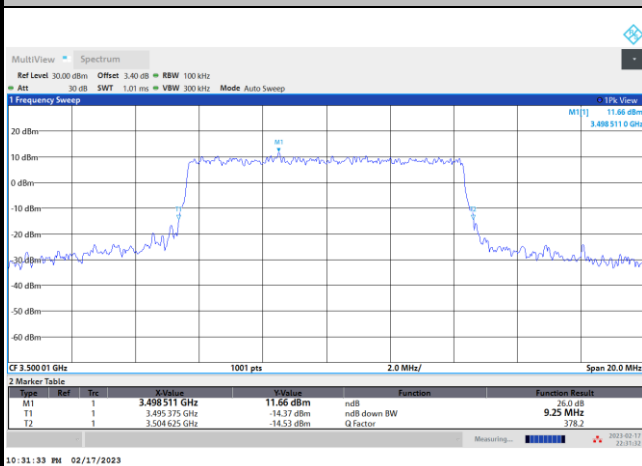
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

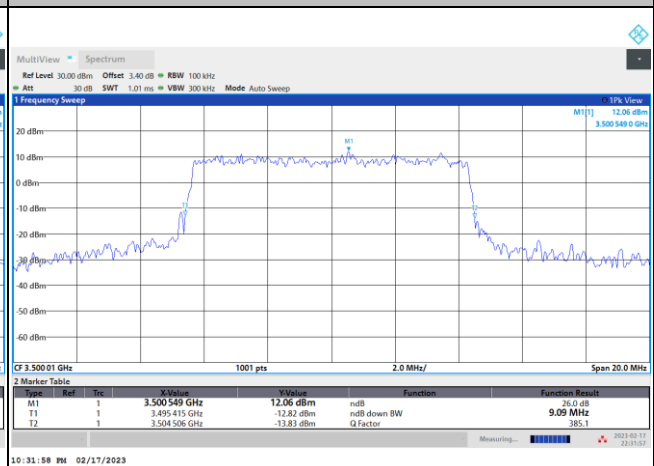


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

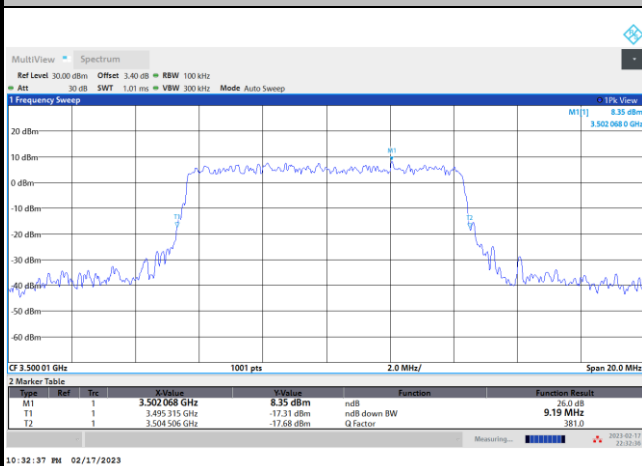
QPSK



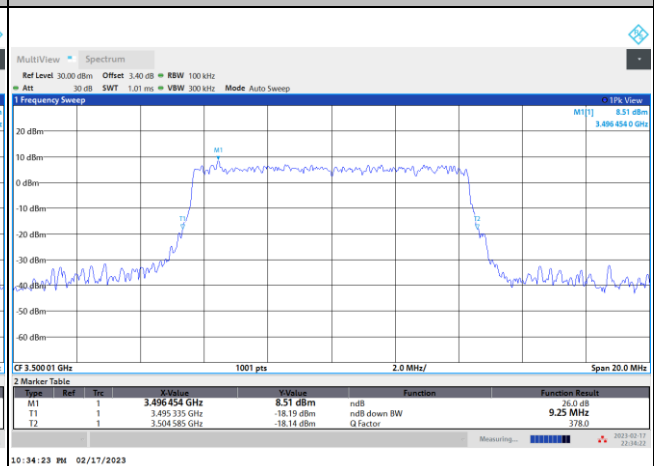
16QAM



64QAM



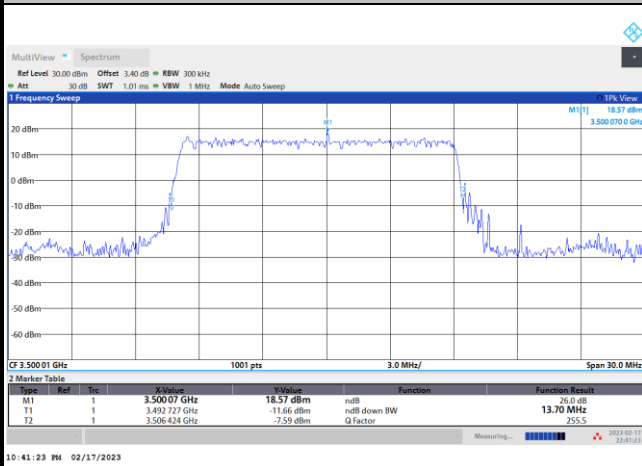
256QAM





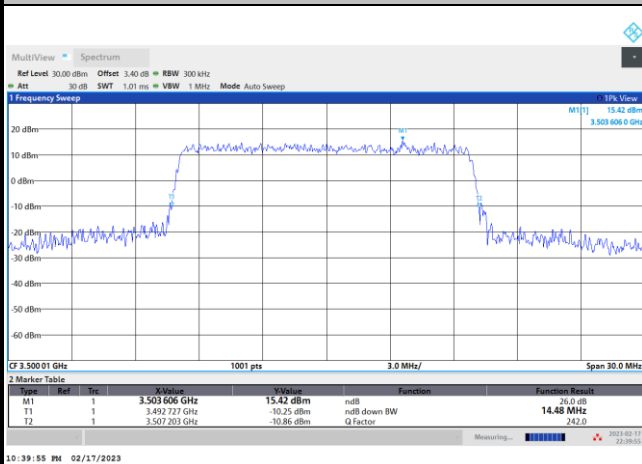
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

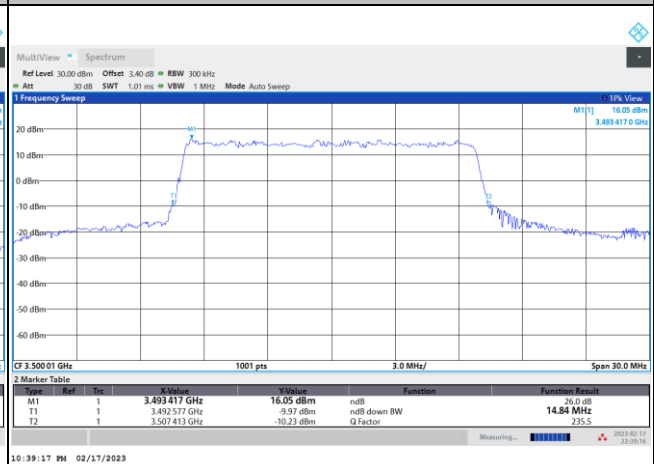


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

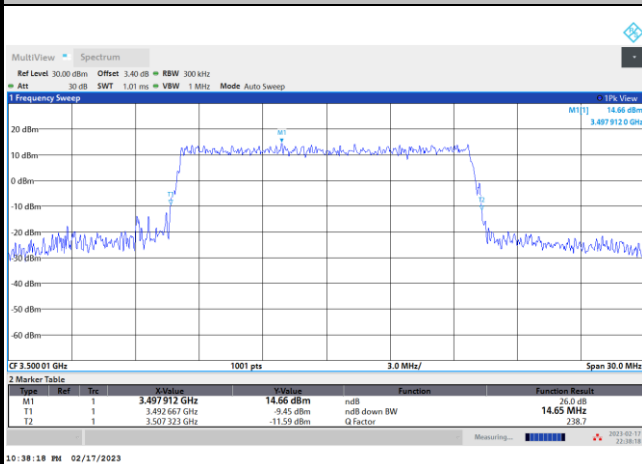
QPSK



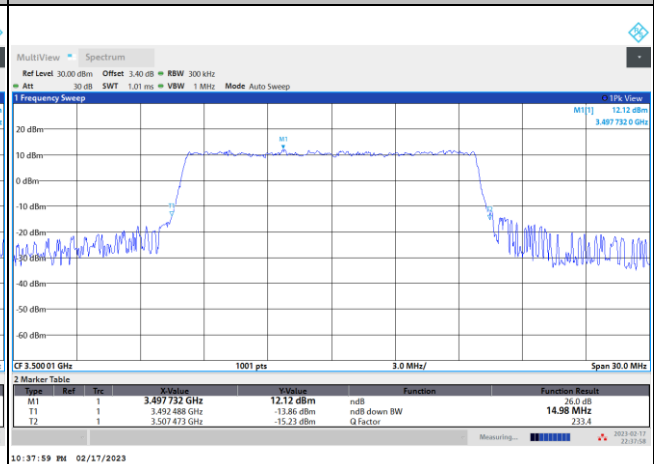
16QAM



64QAM

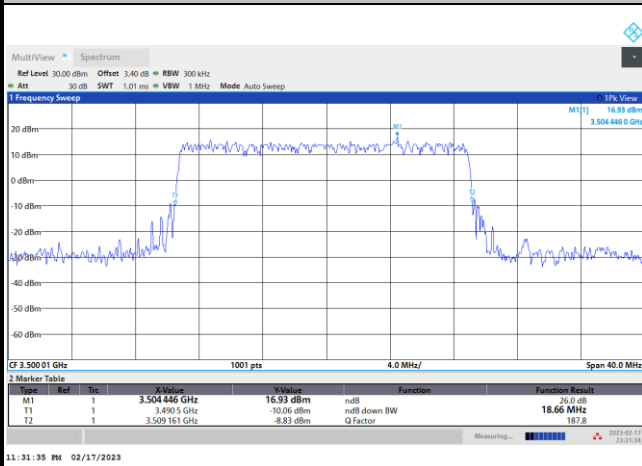


256QAM



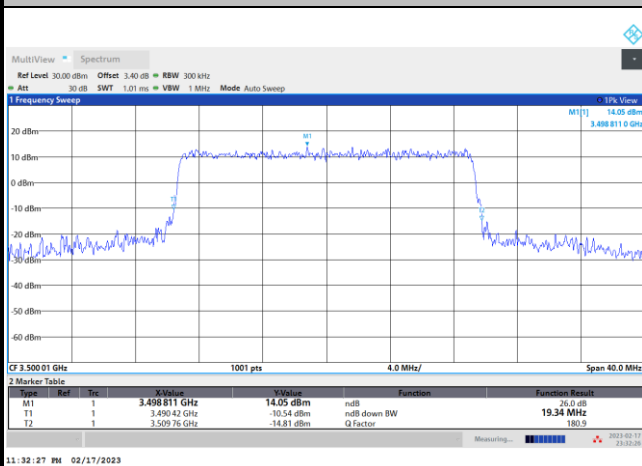
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

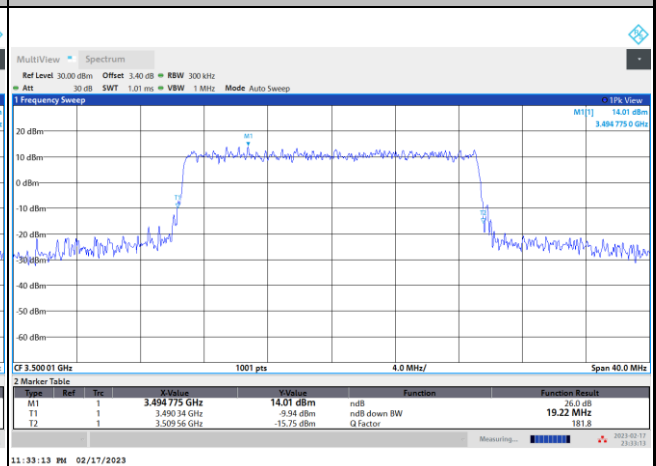


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

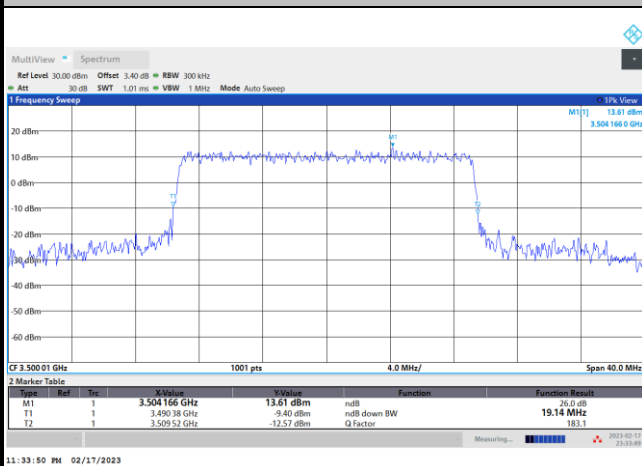
QPSK



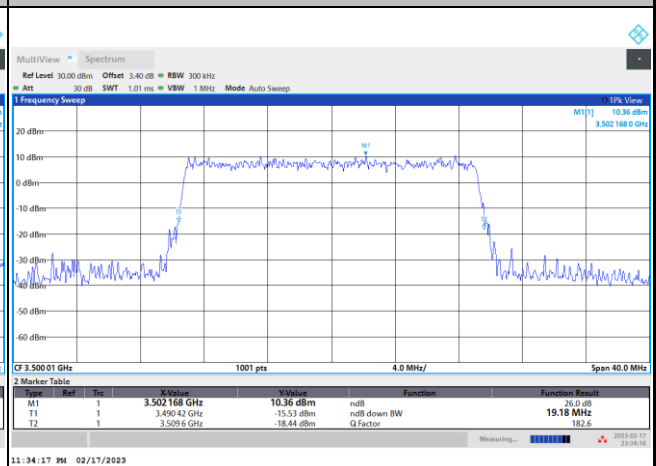
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64QAM



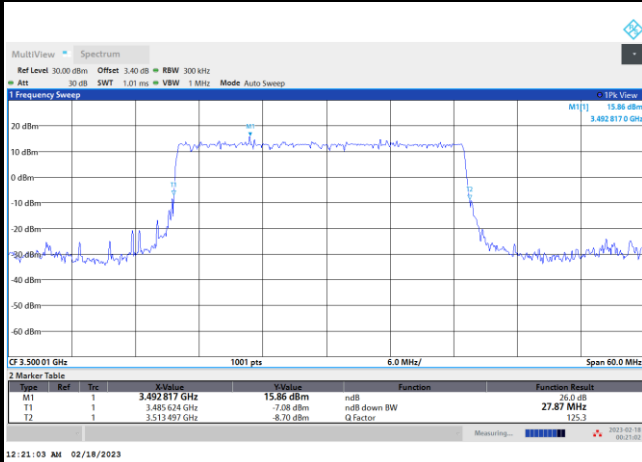
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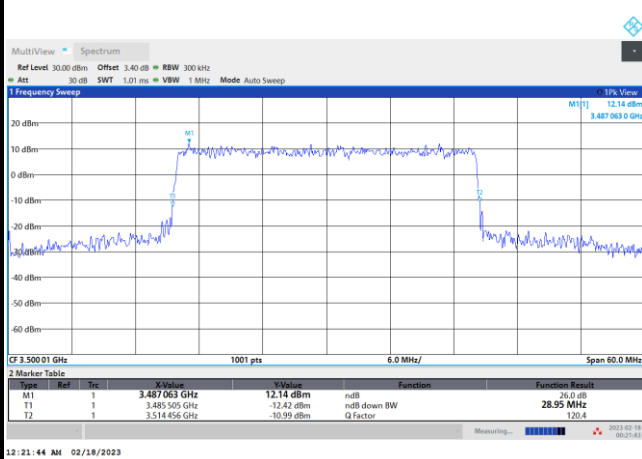
FR1 n77 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

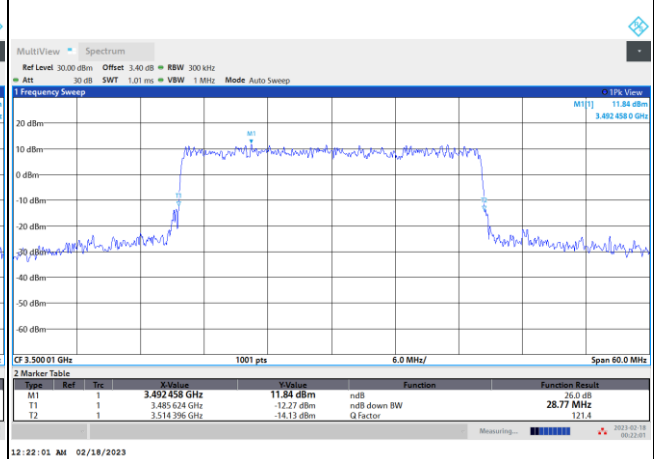


FR1 n77 / 30MHz / CP OFDM / Middle Channel / Full RB

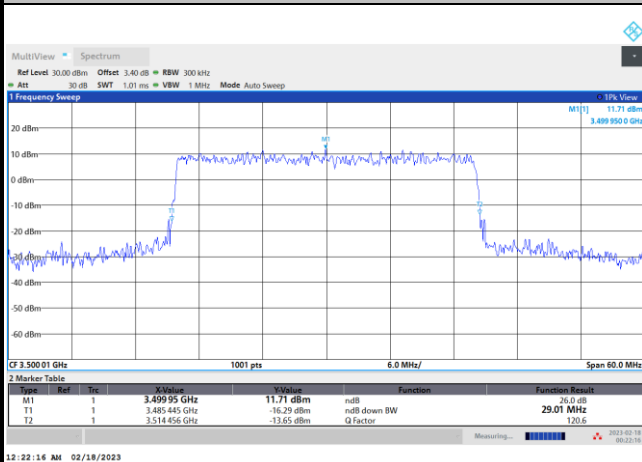
QPSK



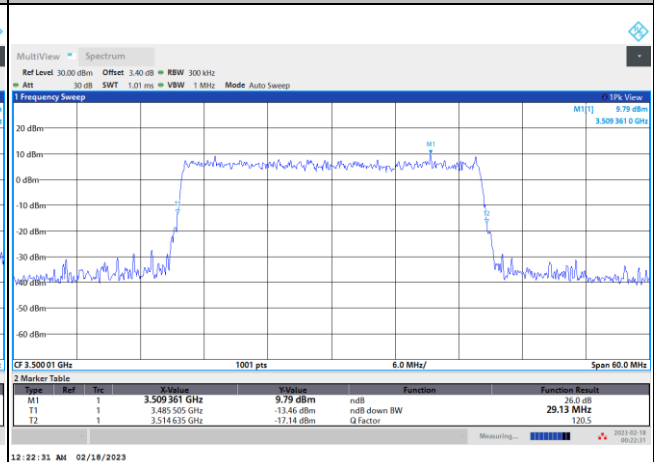
16QAM



64QAM



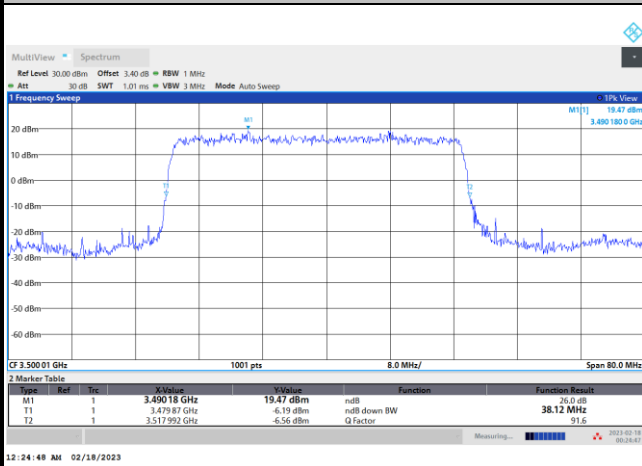
256QAM





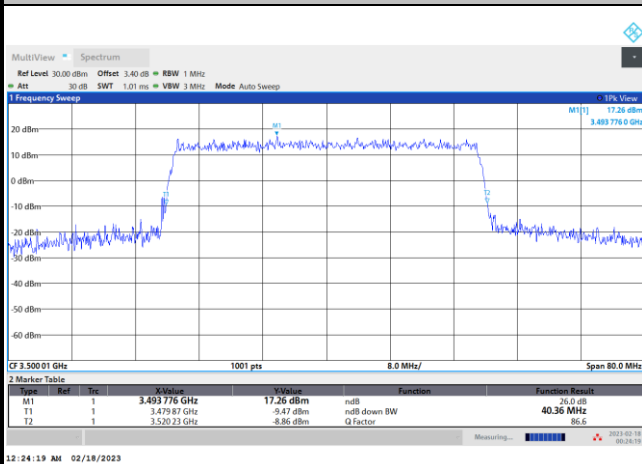
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

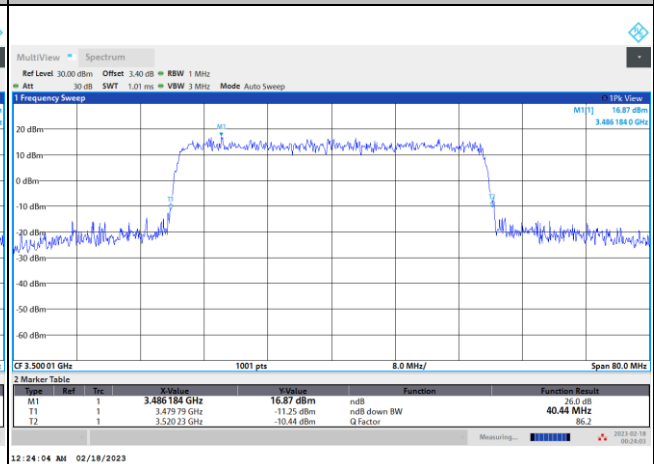


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

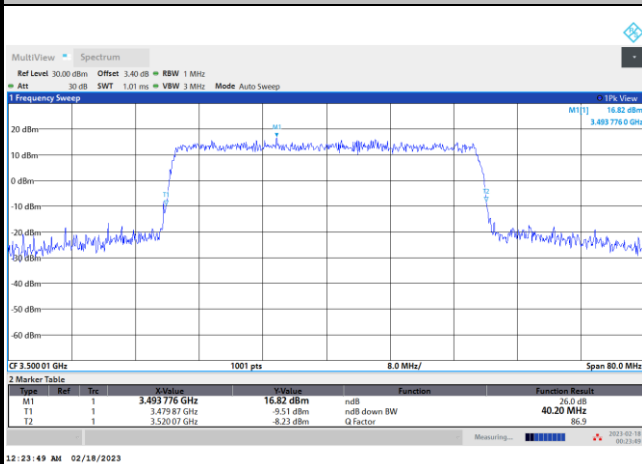
QPSK



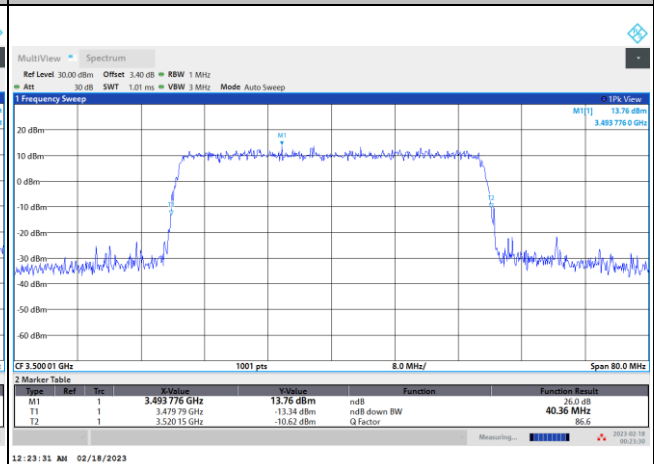
16QAM



64QAM



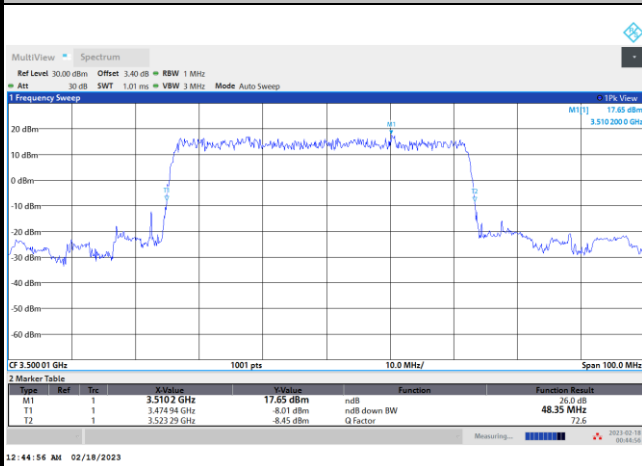
256QAM





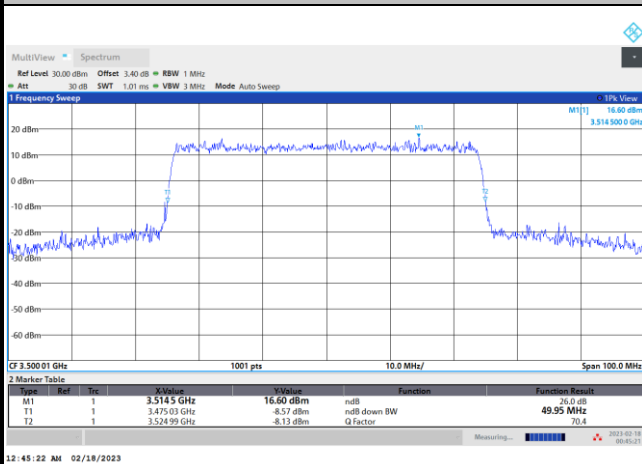
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

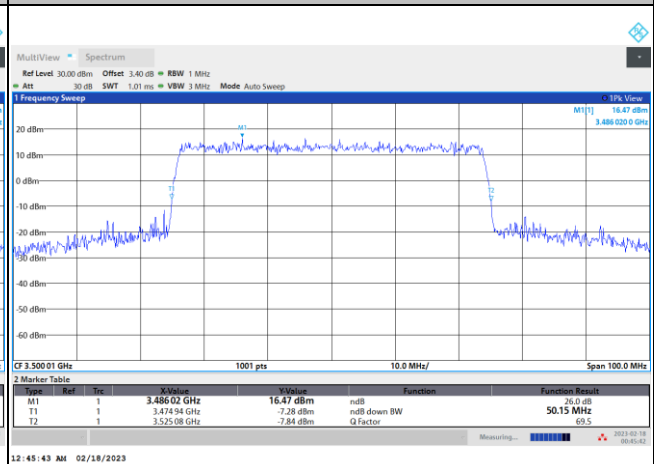


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

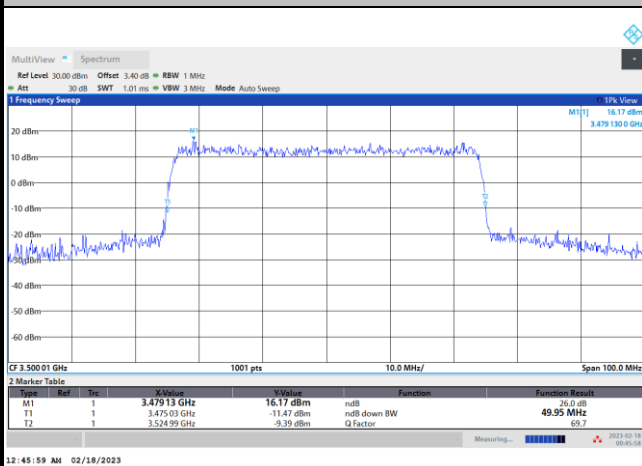
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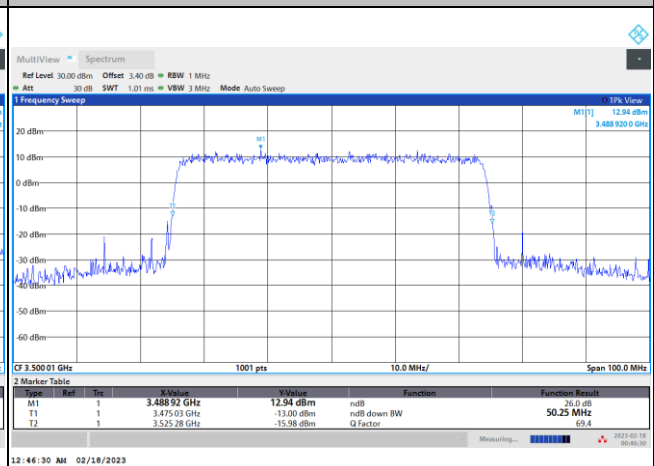
16QAM



64QAM



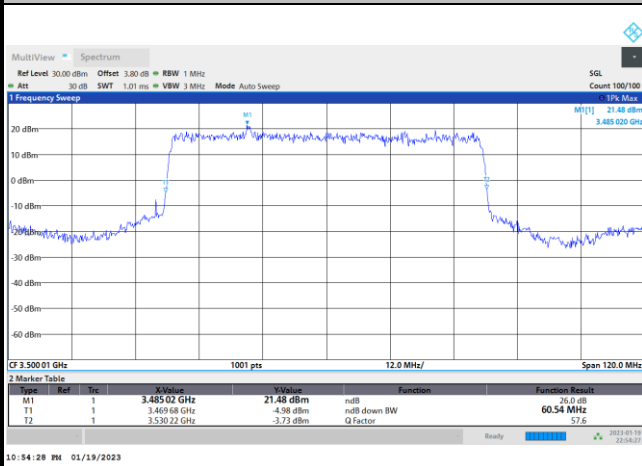
256QAM





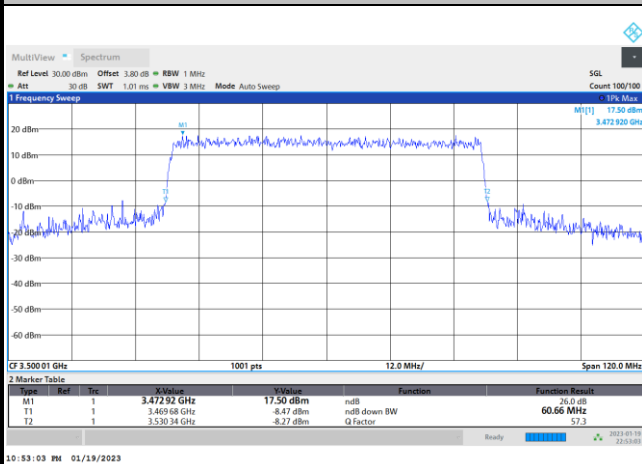
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

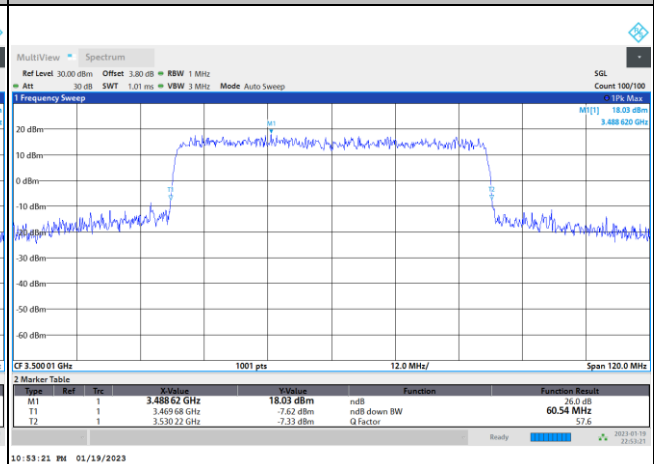


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

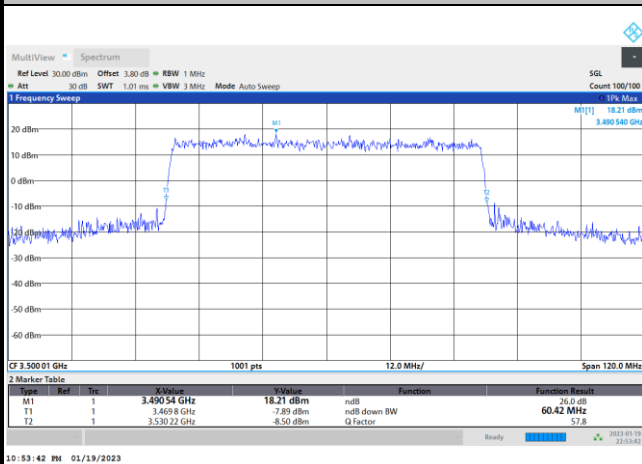
QPSK



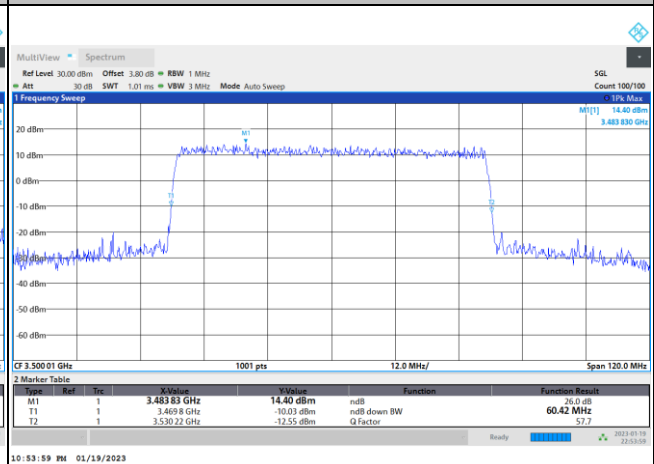
16QAM



64QAM



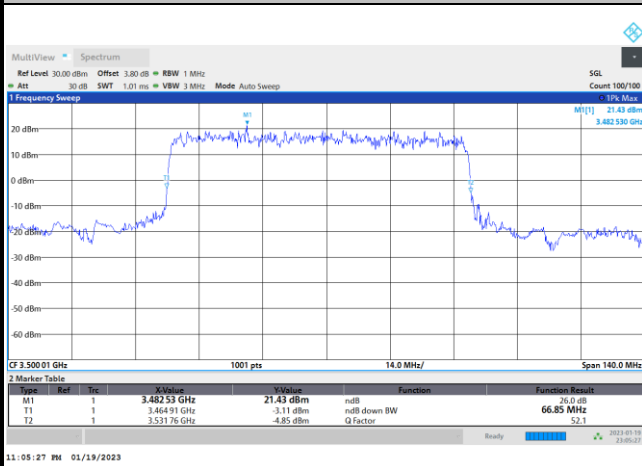
256QAM





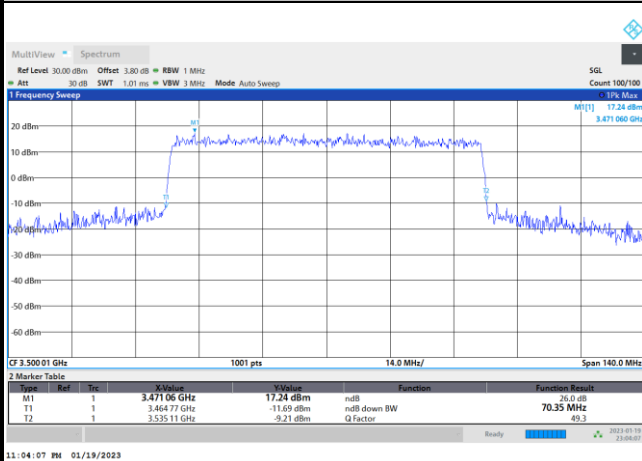
FR1 n77 / 70MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

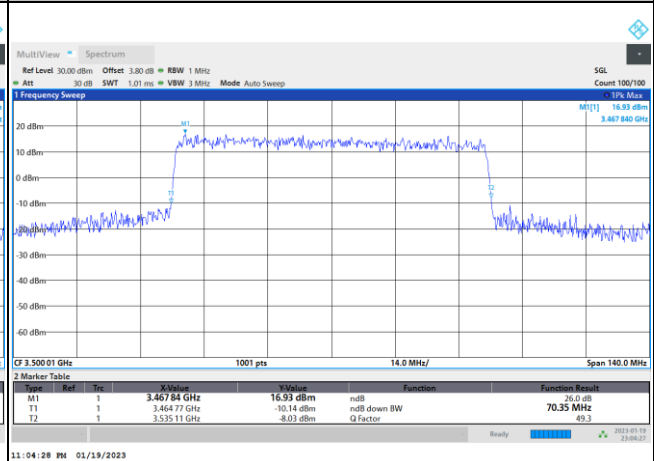


FR1 n77 / 70MHz / CP OFDM / Middle Channel / Full RB

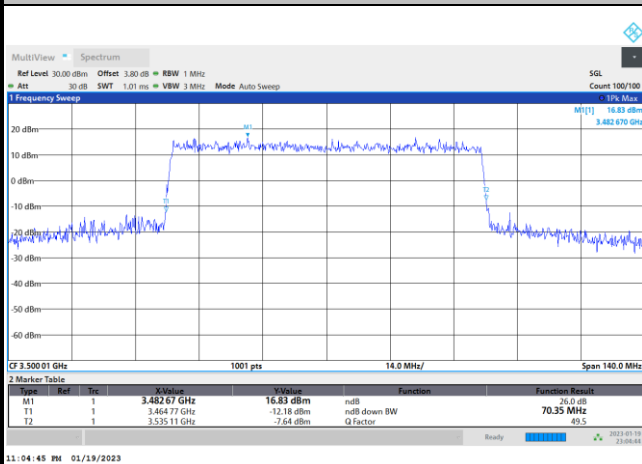
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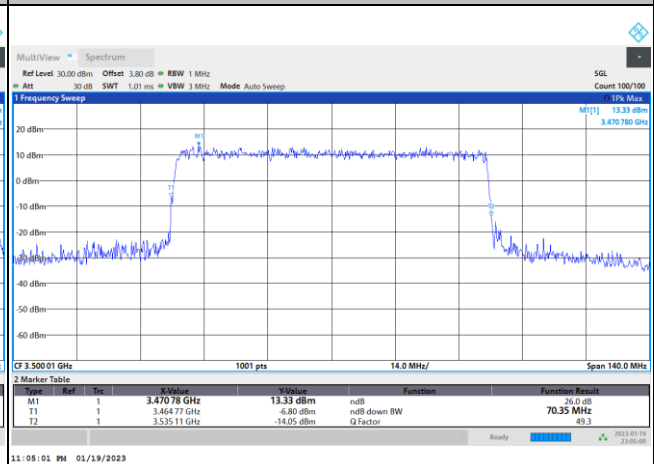
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64QAM



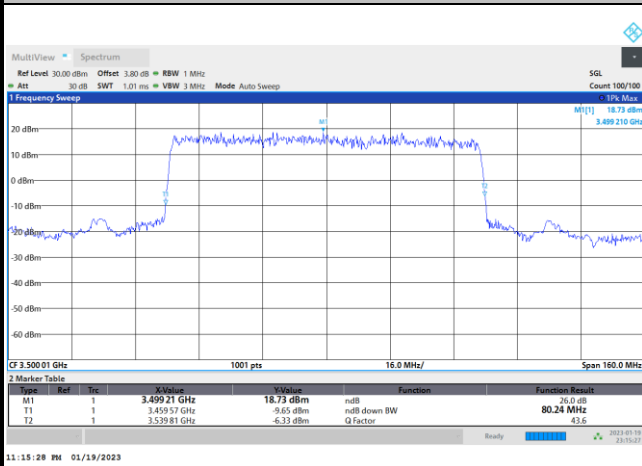
256QAM





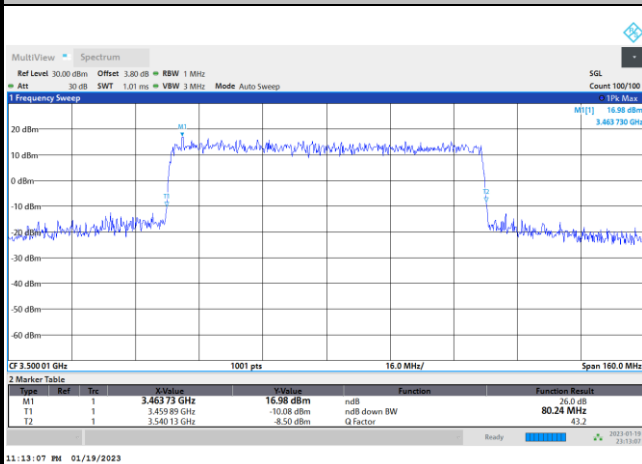
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

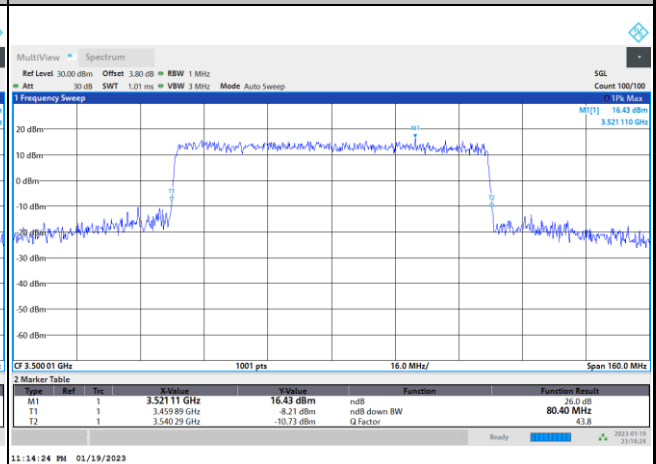


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

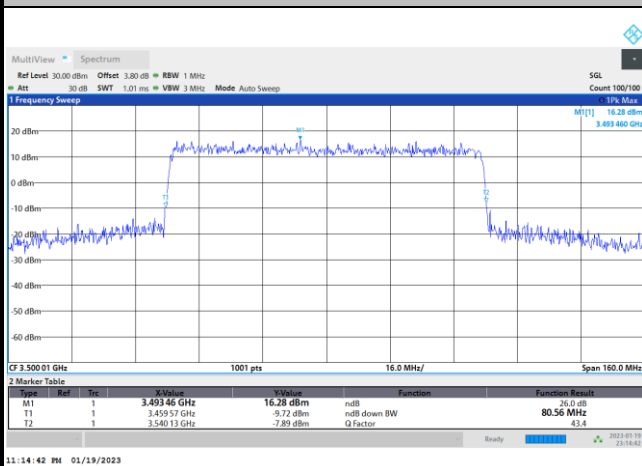
QPSK



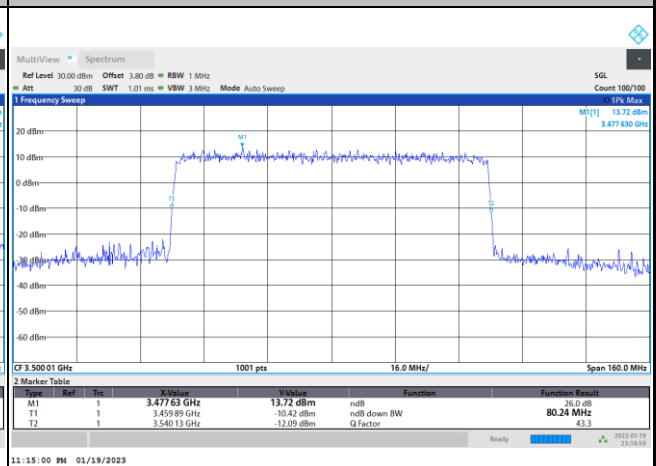
16QAM



64QAM



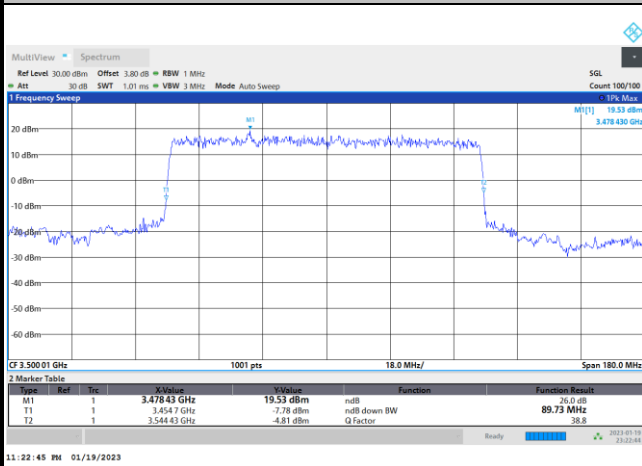
256QAM





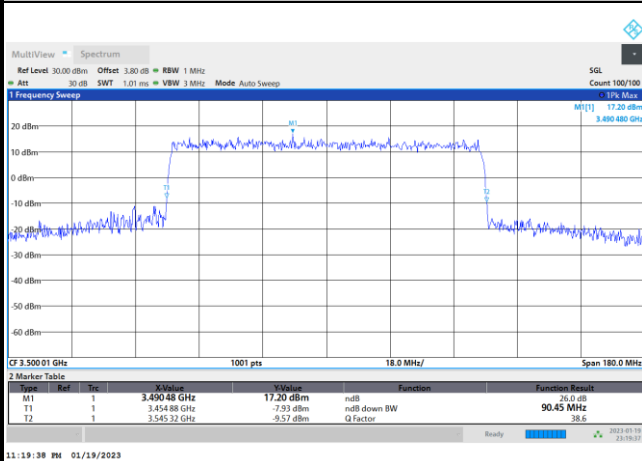
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

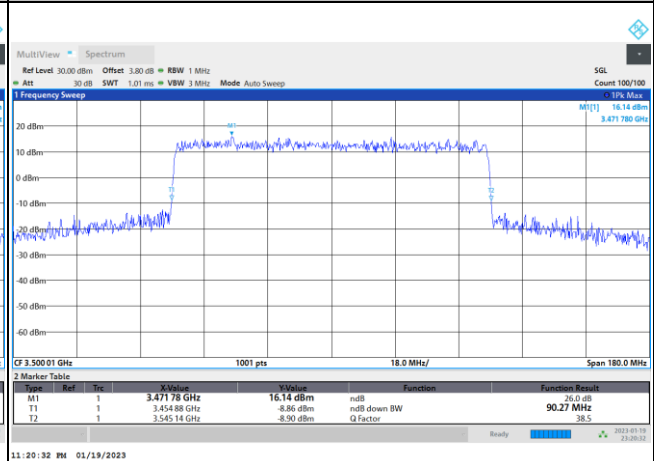


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

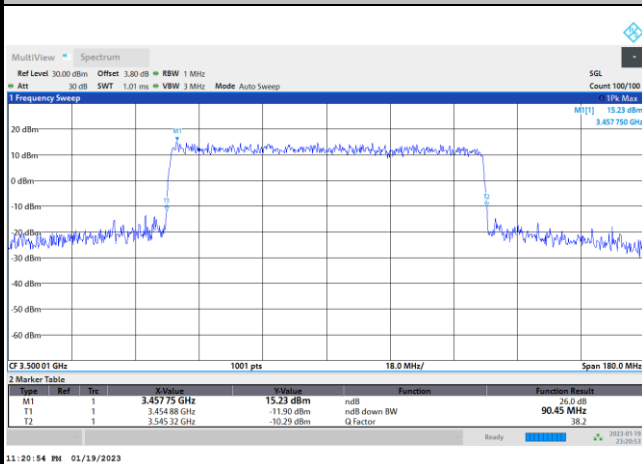
QPSK



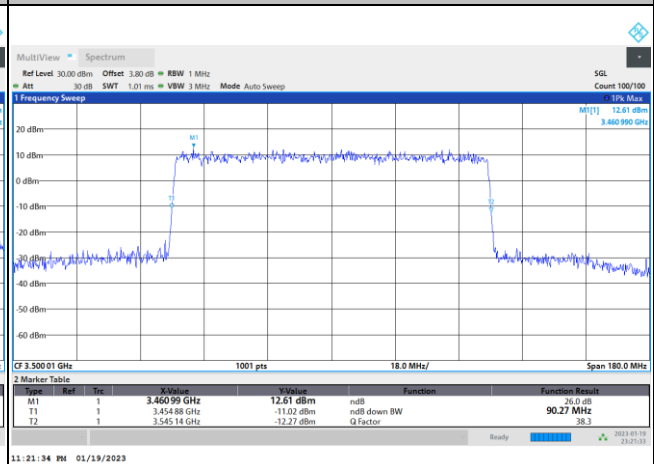
16QAM



64QAM



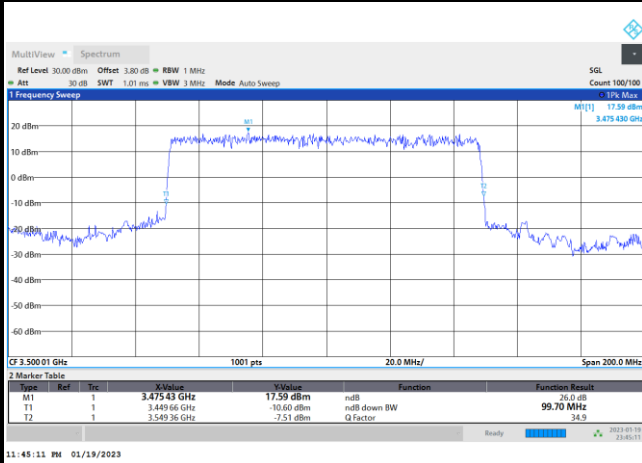
256QAM





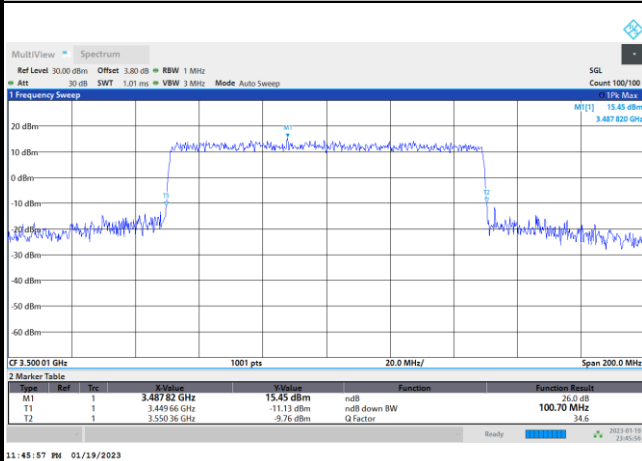
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

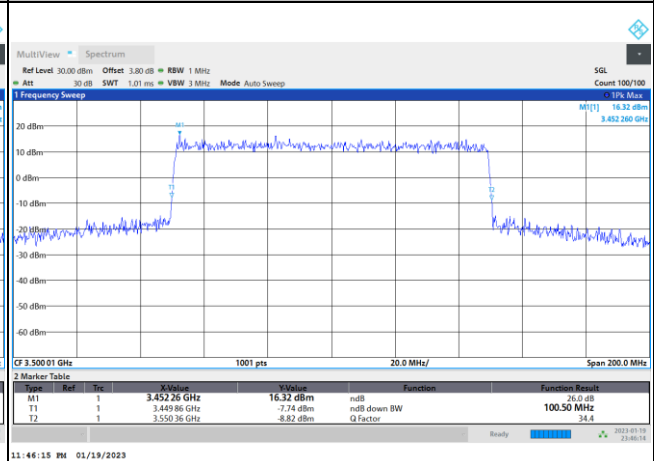


FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

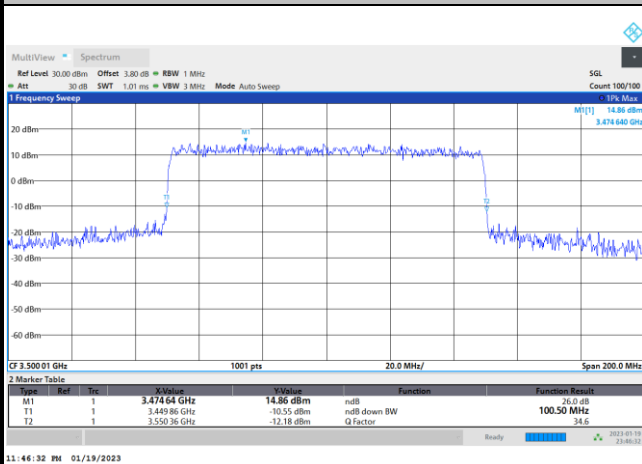
QPSK



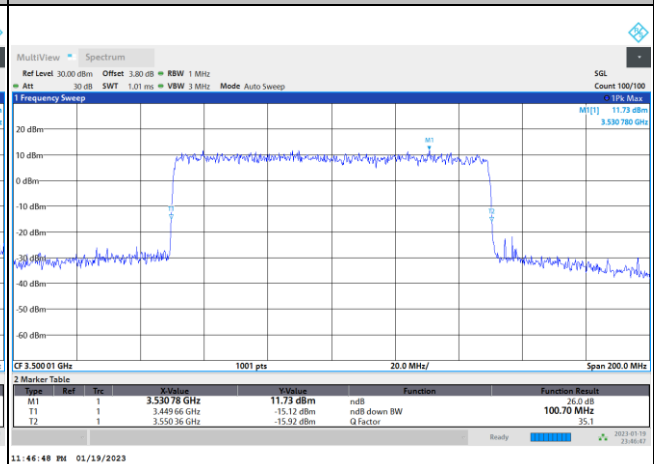
16QAM



64QAM



256QAM



**Occupied Bandwidth**

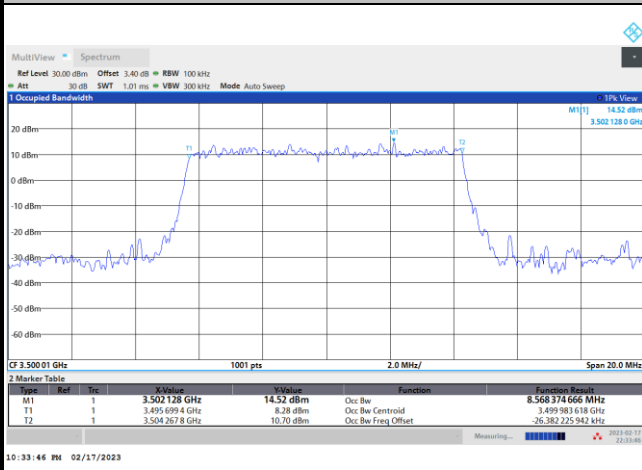
Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.56	12.95	17.87	-	26.82	35.96	45.73	57.81
BW	70MHz	80MHz	90MHz	100MHz				
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK				
Middle CH	64.18	77.11	86.68	96.10				

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.58	8.59	13.60	13.68	18.28	18.24	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.55	8.58	13.68	13.62	18.22	18.17	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	27.86	27.83	37.99	37.99	47.54	47.53	58.12	57.93
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	27.83	27.86	38.14	37.96	47.51	47.57	57.75	57.72
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	67.33	67.41	77.47	77.41	87.18	87.30	97.14	97.13
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	67.44	67.52	77.31	77.27	87.18	87.29	97.17	97.28



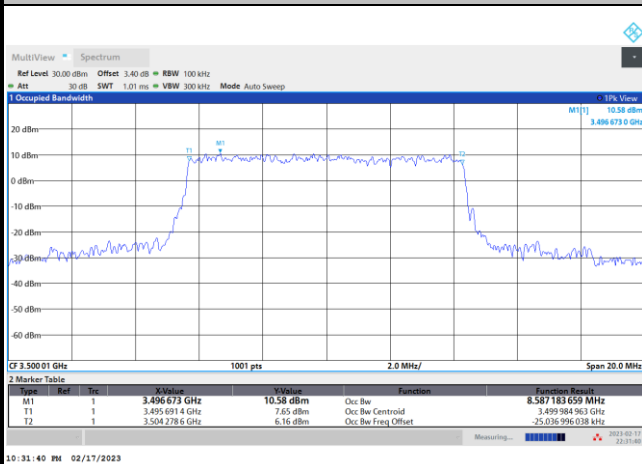
FR1 n77 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

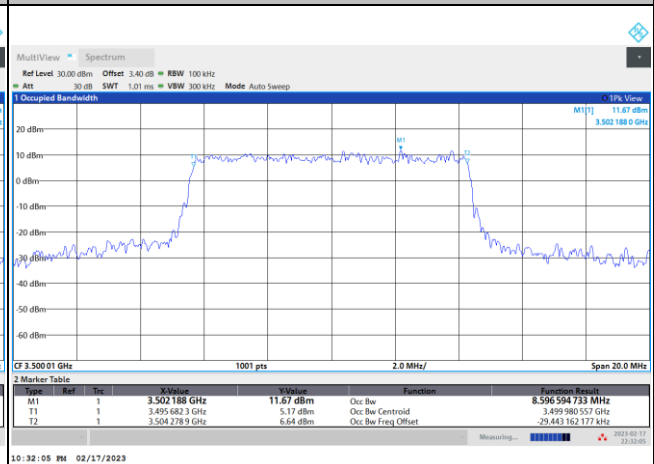


FR1 n77 / 10MHz / CP OFDM / Middle Channel / Full RB

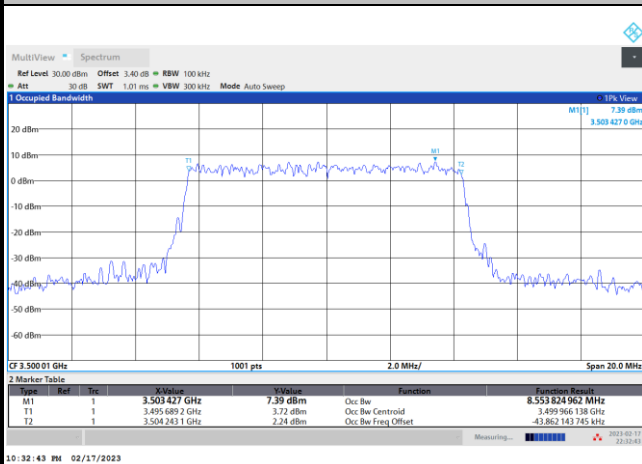
QPSK



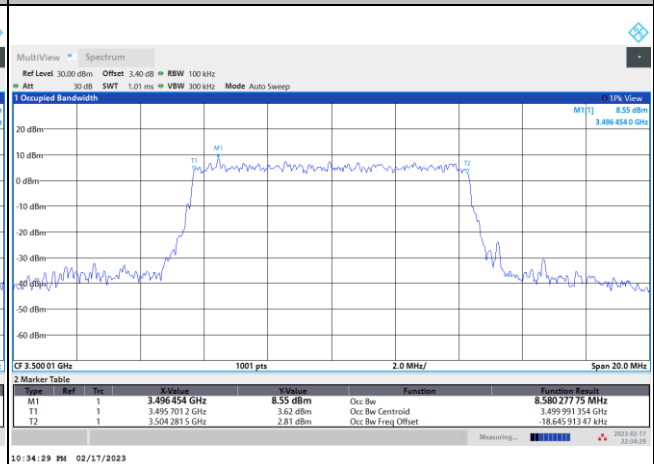
16QAM



64QAM



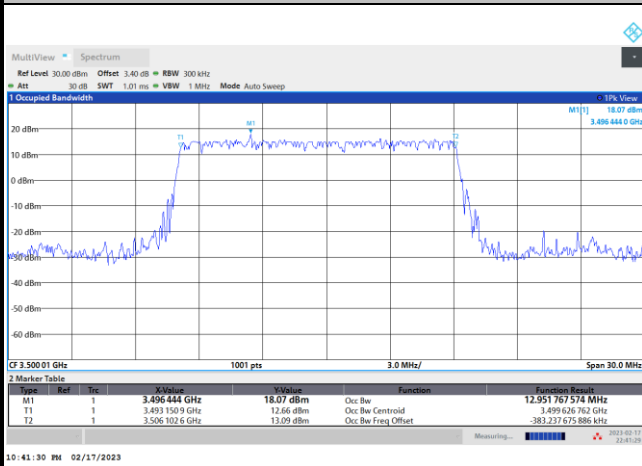
256QAM





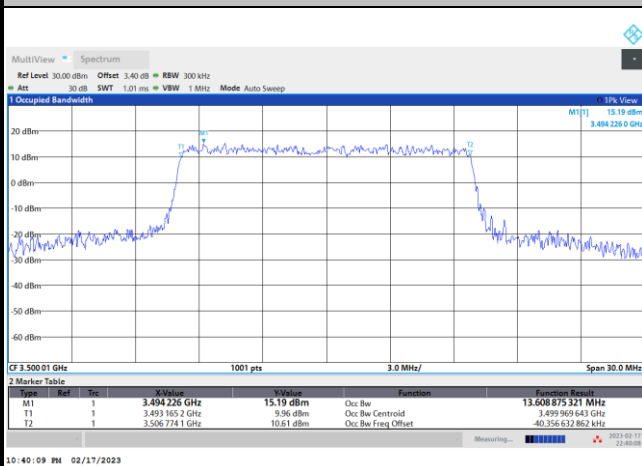
FR1 n77 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

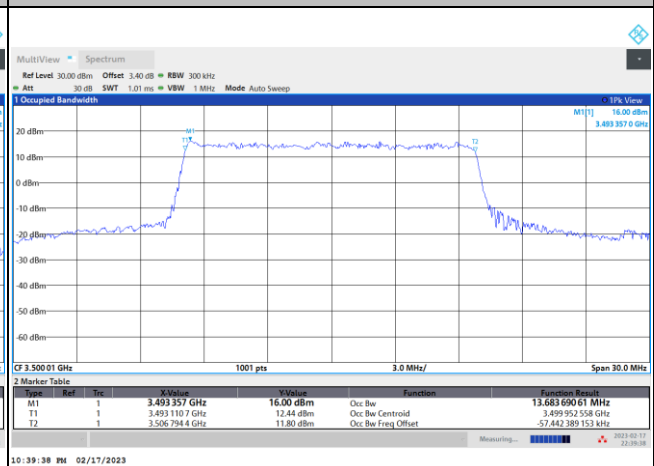


FR1 n77 / 15MHz / CP OFDM / Middle Channel / Full RB

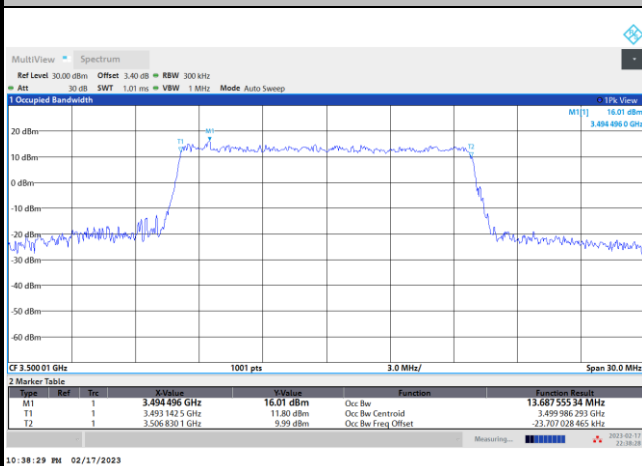
QPSK



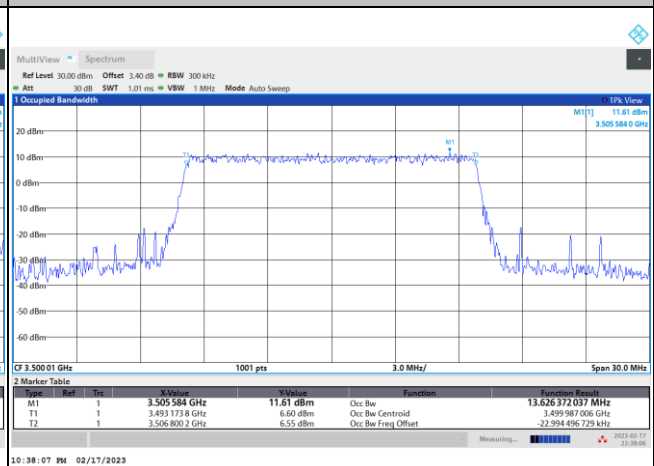
16QAM



64QAM

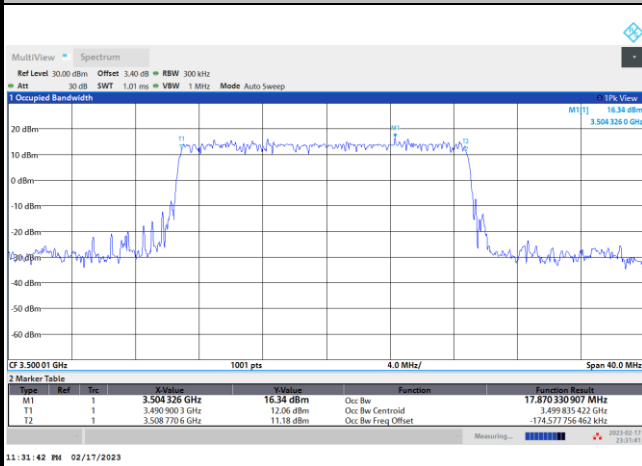


256QAM



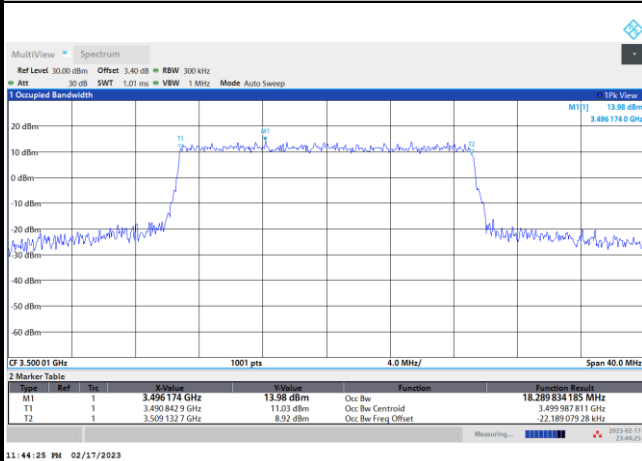
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

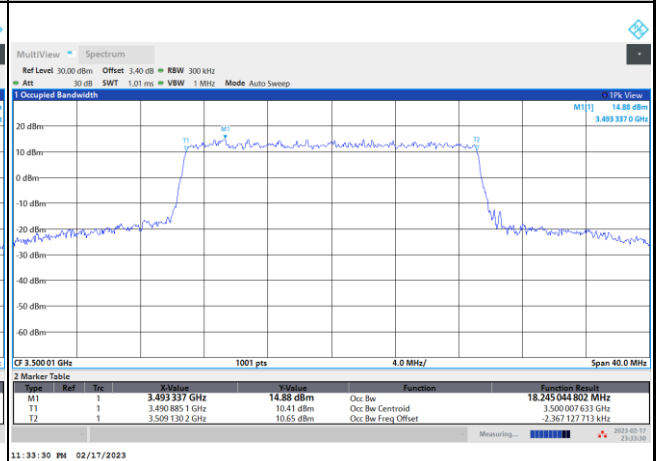


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

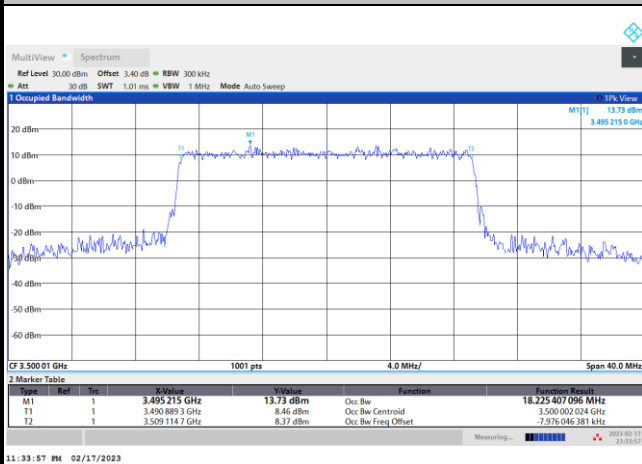
QPSK



16QAM



64QAM



256QAM

