



FCC RADIO TEST REPORT

FCC ID : UZ7-ET85C
Equipment : 2 in 1 Tablet PC with Windows OS
Brand Name : Zebra
Model Name : ET85C
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC 47 CFR Part 2, 27

The product was received on Aug. 18, 2021 and testing was performed from May 29, 2022 to Jun. 08, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

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



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History of this test report

Report No.	Version	Description	Issued Date
FG162602-04	01	Initial issue of report	Jun. 14, 2022



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	Under limit 37.13 dB at 13912.000 MHz

Note: This is a variant report by adding 5G NR n77 (3450 MHz ~ 3550 MHz) via software. All the test cases were performed on original report which can be referred to Sporton Report Number FG162602C.

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: Wei Chen

Report Producer: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	2 in 1 Tablet PC with Windows OS
Brand Name	Zebra
Model Name	ET85C
FCC ID	UZ7-ET85C
Sample 1	140mm for the tablet with none passthrough
Sample 2	212mm for the tablet with passthrough
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	Windows 10 Pro
MFD	2021/Feb.
EUT Stage	Identical Prototype

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

Specification of Accessories				
Adaptor with CLA cable	Brand Name	Zebra	Model Number	ADP-45XE B
Battery	Brand Name	ZEBRA	Model Number	BT-000433
Power cord	Brand Name	Zebra	Model Number	450040

Supported Unit Used in Test Configuration and System				
CAC Reader	Brand Name	Zebra	Model Number	ZBK-ET8X-SMARTCARD-01
Keyboard	Brand Name	Zebra	Model Number	KBD-ET8X

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Frequency	5G NR n77: 3460.02 MHz ~ 3540 MHz
Bandwidth	5G NR n77: 20MHz / 40MHz / 50MHz / 60MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	5G NR n77 : 27.36 dBm
Antenna Type	Fixed Internal Antenna
Antenna Gain	<Aux.>: 5G NR n77: 0.43 dBi
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

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



1.3 Modification of EUT

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

1.4 Emission Designator

5G NR n77		PI/2 BPSK			QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	3460.02 ~ 3540	17M8F9W	0.0038	0.5610	18M2G7D	-	0.5610	18M2W7D	-	0.4721
40	3470.01 ~ 3529.98	35M9F9W	-	0.6012	37M9G7D	-	0.6012	38M0W7D	-	0.4887
50	3475.02 ~ 3525	45M7F9W	-	0.5521	47M5G7D	-	0.5521	47M6W7D	-	0.4581
60	3480 ~ 3519.99	57M9F9W	-	0.5309	57M7G7D	-	0.5309	57M9W7D	-	0.4315
80	3490.02 ~ 3510	76M7F9W	-	0.5248	77M3G7D	-	0.5248	77M5W7D	-	0.4256
90	3495 ~ 3504.99	86M6F9W	-	0.5346	87M2G7D	-	0.5346	87M4W7D	-	0.4325
100	3500.01 ~ 3500.01	96M0F9W	-	0.5212	97M1G7D	-	0.5212	97M2W7D	-	0.4018
5G NR n77		64QAM			256QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)			
20	3460.02 ~ 3540	18M2W7D	-	0.4721	18M2W7D	-	0.4721			
40	3470.01 ~ 3529.98	37M9W7D	-	0.4887	38M0W7D	-	0.4887			
50	3475.02 ~ 3525	47M5W7D	-	0.4581	47M5W7D	-	0.4581			
60	3480 ~ 3519.99	57M8W7D	-	0.4315	57M8W7D	-	0.4315			
80	3490.02 ~ 3510	77M3W7D	-	0.4256	77M2W7D	-	0.4256			
90	3495 ~ 3504.99	87M5W7D	-	0.4325	87M2W7D	-	0.4325			
100	3500.01 ~ 3500.01	97M4W7D	-	0.4018	97M3W7D	-	0.4018			



1.5 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	Luffy Lin
Temperature	20~24°C
Relative Humidity	50~56%

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. 03CH20-HY (TAF Code: 3786)
Test Engineer	Mancy Chou and JC Liang
Temperature	18~22°C
Relative Humidity	60~68%
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

1.6 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.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

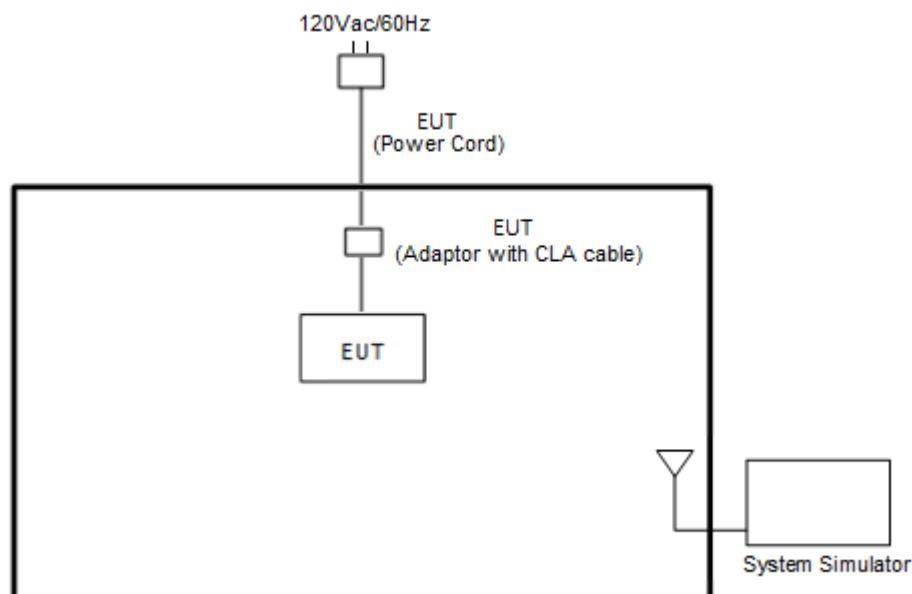
2.1 Test Mode

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 find Y Plane for 5G NR n77; Z Plane for 66A-n77A as worst plane.

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	-	-	v	-	-	v	v	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	n77	-	-	v	-	-				-				v	v	v	v	v			v		v	
26dB and 99% Bandwidth	n77	-	-	v	-	-	v	v	v	-	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n77	-	-	v	-	-	v	v	v	-	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	n77	-	-	v	-	-				-					v				v			v	v	v
Frequency Stability	n77	-	-	v	-	-				-				v							v		v	
E.I.R.P	n77	-	-	v	-	-	v	v	v	-	v	v	v	v	v	v	v	v	Max. Power					
Radiated Spurious Emission	n77	Worst Case																			v	v	v	
Remark	<div>1. The mark “v ” means that this configuration is chosen for testing</div> <div>2. The mark “-” means that this bandwidth is not supported.</div> <div>3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.</div> <div>4. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report, and the worst modes of FR1 and LTE for simultaneous transmission were verified and compliant.</div> <div>5. All the radiated test cases were performed with Sample 1.</div>																							

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

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



2.5 Frequency List of Low/Middle/High Channels

5G NR 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
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
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540

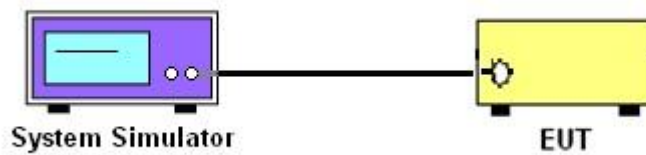
3 Conducted Test Items

3.1 Measuring Instruments

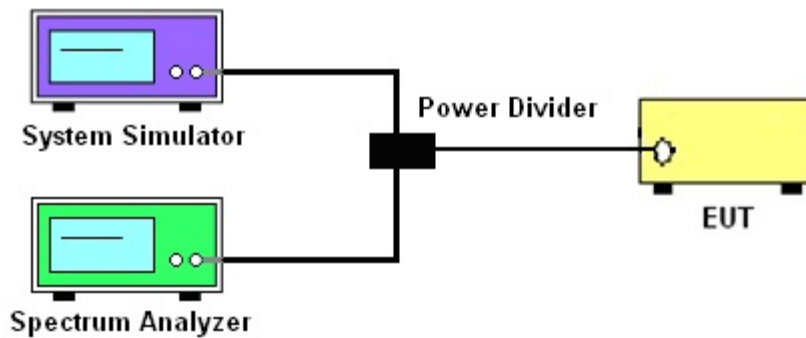
See list of measuring instruments of this test report.

3.1.1 Test Setup

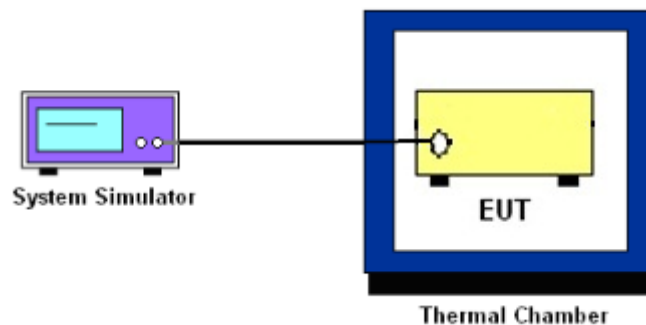
3.1.2 Conducted Output Power



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.



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 $P(\text{Watts})$

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)



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.

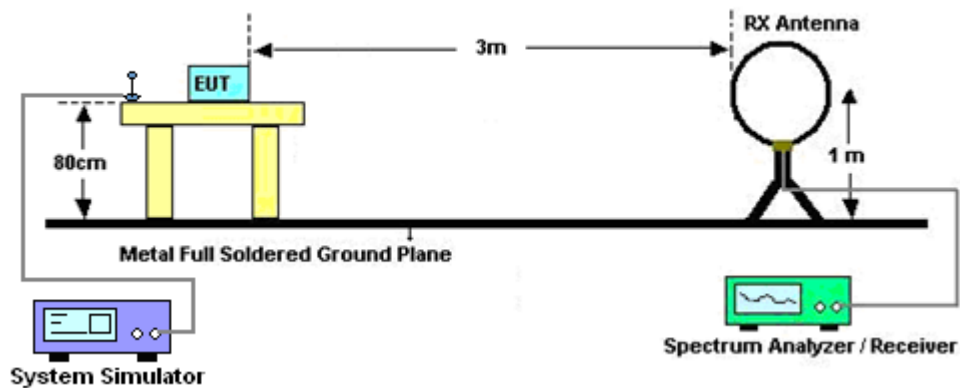
4 Radiated Test Items

4.1 Measuring Instruments

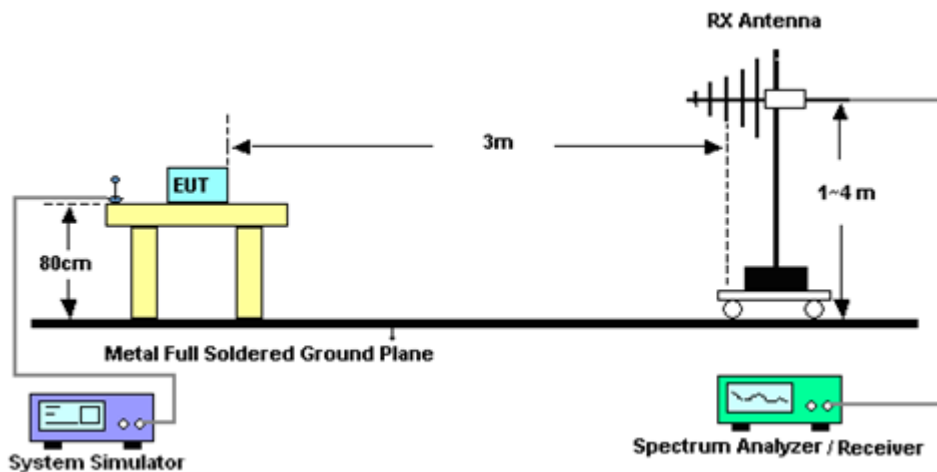
See list of measuring instruments of this test report.

4.1.1 Test Setup

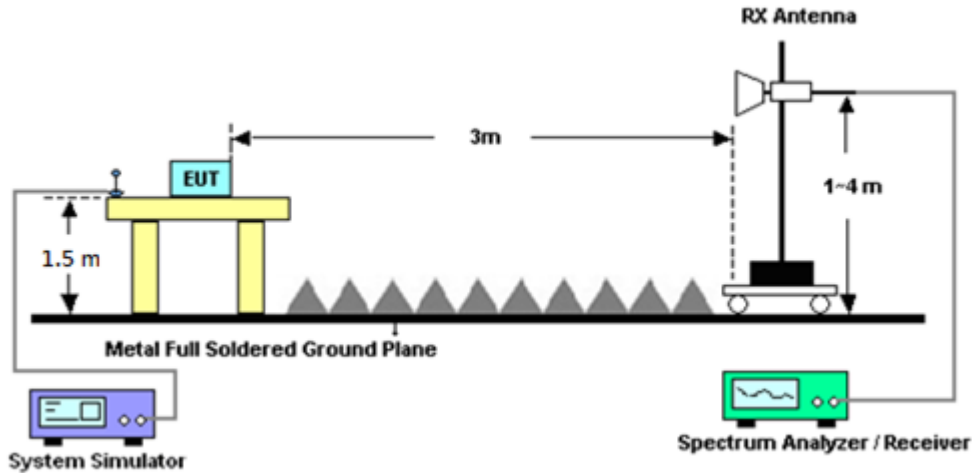
For radiated test below 30MHz



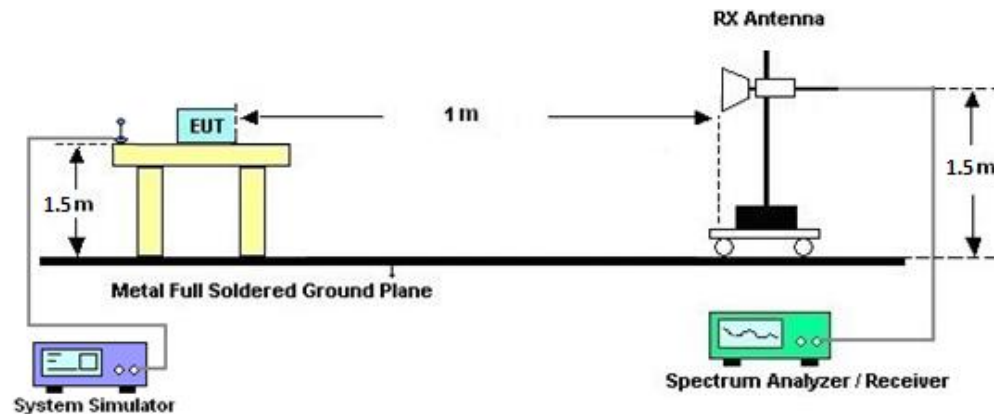
For radiated test from 30MHz to 1GHz



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
EMI Test Receiver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	May 29, 2022~ Jun. 07, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	May 29, 2022~ Jun. 07, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 15, 2021	May 29, 2022~ Jun. 07, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 24, 2021	May 29, 2022~ Jun. 07, 2022	Dec. 23, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	May 29, 2022~ Jun. 07, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	May 29, 2022~ Jun. 07, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N 1D01N-06	37059 & 01	30MHz~1GHz	Oct. 09, 2021	May 29, 2022~ Jun. 07, 2022	Oct. 08, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	May 29, 2022~ Jun. 07, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 02, 2021	May 29, 2022~ Jun. 07, 2022	Nov. 01, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Nov. 04, 2021	May 29, 2022~ Jun. 07, 2022	Nov. 03, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 30, 2021	May 29, 2022~ Jun. 07, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200889	N/A	Sep. 30, 2021	May 29, 2022~ Jun. 07, 2022	Sep. 29, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 19, 2022	May 29, 2022~ Jun. 07, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	May 29, 2022~ Jun. 07, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 29, 2022~ Jun. 07, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 29, 2022~ Jun. 07, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	May 29, 2022~ Jun. 07, 2022	N/A	Radiation (03CH20-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Dec. 08, 2021	May 29, 2022~ Jun. 07, 2022	Dec. 07, 2022	Radiation (03CH20-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Oct. 06, 2021	Jun. 05, 2022~ Jun. 08, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Aug. 31, 2021	Jun. 05, 2022~ Jun. 08, 2022	Aug. 30, 2022	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 09, 2021	Jun. 05, 2022~ Jun. 08, 2022	Sep. 08, 2022	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 21, 2022	Jun. 05, 2022~ Jun. 08, 2022	Mar. 20, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6261849015	LTE	Ocr. 06, 2021	Jun. 05, 2022~ Jun. 08, 2022	Oct. 05, 2022	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6261940327	FR1	Oct. 29, 2021	Jun. 05, 2022~ Jun. 08, 2022	Oct. 28, 2022	Conducted (TH03-HY)



6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.33 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.40 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.43 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power & EIRP)

NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	27.04	27.02	27.05	27.49	0.5610		
20	1	49		27.06	26.99	26.94				
20	25	12		26.98	26.97	26.90				
20	1	0		23.55	26.62	26.64				
20	1	50		23.56	23.57	23.51				
20	50	0		26.53	26.51	26.48				
20	1	1	QPSK	27.01	27.04	27.01				
20	1	49		27.02	26.98	26.96				
20	25	12		26.99	27.00	26.92				
20	1	0		23.65	23.57	23.56				
20	1	50		23.57	23.54	23.49				
20	50	0		26.06	26.45	25.96				
20	1	1	16-QAM	26.31	26.25	26.21	26.74	0.4721		
20	1	1	64-QAM	24.65	24.81	24.76				
20	1	1	256-QAM	22.24	22.33	22.38				
Limit	EIRP < 1W			Result			Pass			

NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	27.19	27.21	27.26	27.79	0.6012		
40	1	104		27.36	27.26	27.35				
40	50	25		27.12	27.17	27.23				
40	1	0		23.77	23.84	23.81				
40	1	105		23.86	23.87	23.85				
40	100	0		26.75	26.69	26.79				
40	1	1	QPSK	27.11	27.14	27.16				
40	1	104		27.27	27.33	27.32				
40	50	25		27.21	27.15	27.16				
40	1	0		23.72	23.74	23.81				
40	1	105		23.87	23.90	23.88				
40	100	0		26.24	26.34	26.24				
40	1	1	16-QAM	26.33	26.46	26.32	26.89	0.4887		
40	1	1	64-QAM	24.91	24.94	24.74				
40	1	1	256-QAM	22.42	22.16	22.42				
Limit	EIRP < 1W			Result			Pass			



NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	26.85	26.93	26.86	27.42	0.5521		
50	1	131		26.99	26.92	26.94				
50	64	32		26.98	26.93	26.90				
50	1	0		23.41	23.52	23.46				
50	1	132		23.61	23.55	23.54				
50	128	0		26.37	26.44	26.41				
50	1	1	QPSK	26.82	26.96	26.78				
50	1	131		26.96	26.96	26.95				
50	64	32		26.92	26.91	26.92				
50	1	0		23.54	23.47	23.37				
50	1	132		23.48	23.44	23.49				
50	128	0		25.98	25.98	25.91				
50	1	1	16-QAM	26.11	26.18	25.98	26.61	0.4581		
50	1	1	64-QAM	24.65	24.72	24.25				
50	1	1	256-QAM	22.21	22.18	22.06				
Limit	EIRP < 1W			Result			Pass			

NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
60	1	1	PI/2 BPSK	26.72	26.67	26.65	27.25	0.5309		
60	1	160		26.72	26.71	26.61				
60	81	40		26.82	26.75	26.71				
60	1	0		23.19	23.22	23.21				
60	1	161		23.26	23.24	23.17				
60	162	0		26.31	26.26	26.15				
60	1	1	QPSK	26.61	26.65	26.54				
60	1	160		26.72	26.70	26.67				
60	81	40		26.75	26.71	26.71				
60	1	0		23.11	23.07	23.13				
60	1	161		23.26	23.18	23.15				
60	162	0		25.68	25.74	25.65				
60	1	1	16-QAM	25.78	25.92	25.82	26.35	0.4315		
60	1	1	64-QAM	24.10	24.45	24.12				
60	1	1	256-QAM	21.92	21.86	21.82				
Limit	EIRP < 1W			Result			Pass			



NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
80	1	1	PI/2 BPSK	26.72	26.77	26.66	27.20	0.5248		
80	1	215		26.64	26.58	26.63				
80	108	54		26.75	26.65	26.70				
80	1	0		23.27	23.28	23.23				
80	1	216		23.14	23.13	23.14				
80	216	0		26.13	26.21	26.12				
80	1	1	QPSK	26.61	26.61	26.61				
80	1	215		26.62	26.52	26.56				
80	108	54		26.74	26.72	26.71				
80	1	0		23.21	23.10	23.11				
80	1	216		23.10	23.07	23.05				
80	216	0		25.75	25.72	25.61				
80	1	1	16-QAM	25.74	25.86	25.78	26.29	0.4256		
80	1	1	64-QAM	24.38	24.41	24.14				
80	1	1	256-QAM	21.97	21.93	21.86				
Limit	EIRP < 1W			Result			Pass			



NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
90	1	1	PI/2 BPSK	26.70	26.75	26.78	27.28	0.5346		
90	1	243		26.72	26.67	26.54				
90	120	60		26.65	26.63	26.85				
90	1	0		23.28	23.28	23.37				
90	1	244		23.23	23.22	23..09				
90	243	0		26.15	26.24	26.31				
90	1	1	QPSK	26.61	26.66	26.76				
90	1	243		26.74	26.61	26.54				
90	120	60		26.66	26.68	26.81				
90	1	0		23.18	23.21	23.21				
90	1	244		23.22	23.17	23.02				
90	243	0		25.74	25.74	25.75				
90	1	1	16-QAM	25.74	25.79	25.93	26.36	0.4325		
90	1	1	64-QAM	24.33	24.44	24.24				
90	1	1	256-QAM	21.98	21.97	21.98				
Limit	EIRP < 1W			Result			Pass			

NR n77 Maximum Average Power [dBm] (GT - LC = 0.43 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
100	1	1	PI/2 BPSK	-	26.74	-	27.17	0.5212		
100	1	271		-	26.70	-				
100	135	67		-	26.71	-				
100	1	0		-	23.59	-				
100	1	272		-	23.26	-				
100	270	0		-	26.23	-				
100	1	1	QPSK	-	26.67	-				
100	1	271		-	26.73	-				
100	135	67		-	23.74	-				
100	1	0		-	23.22	-				
100	1	272		-	23.26	-				
100	270	0		-	25.74	-				
100	1	1	16-QAM	-	25.61	-	26.04	0.4018		
100	1	1	64-QAM	-	24.17	-				
100	1	1	256-QAM	-	21.96	-				
Limit	EIRP < 1W			Result			Pass			

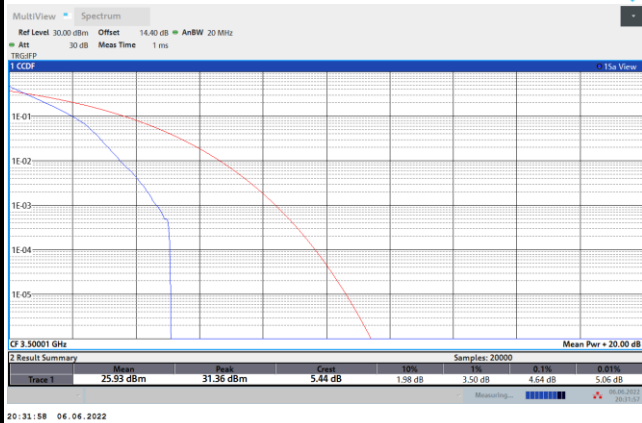
**FR1 n77****Peak-to-Average Ratio**

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	4.64	5.62	6.54	6.9	PASS
Mode	FR1 n77 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.54				PASS

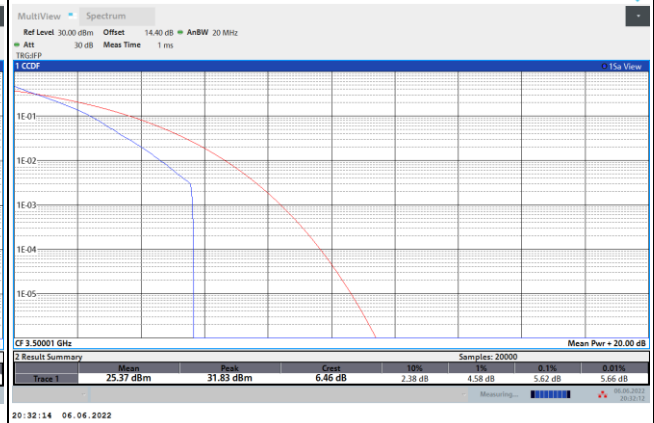


FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

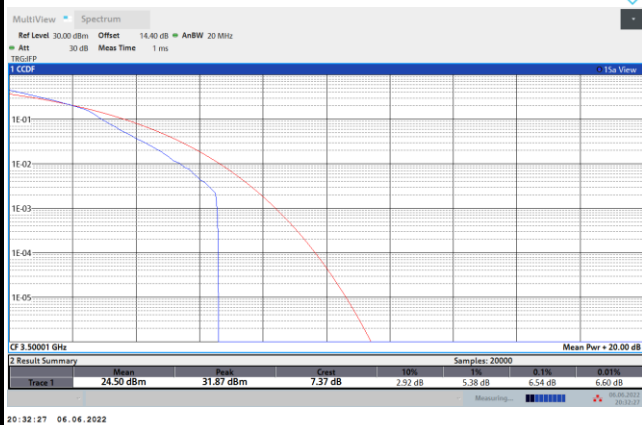
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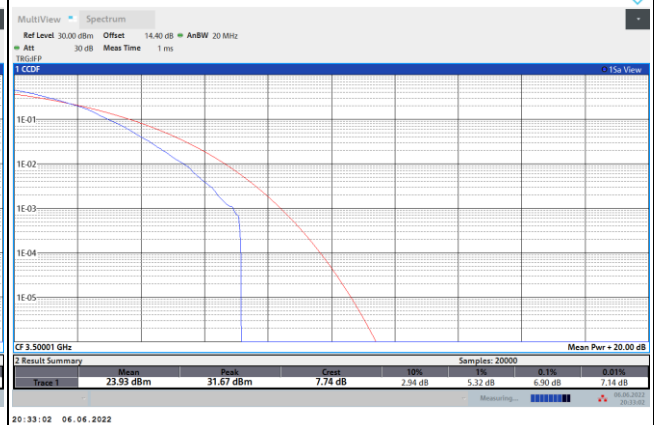
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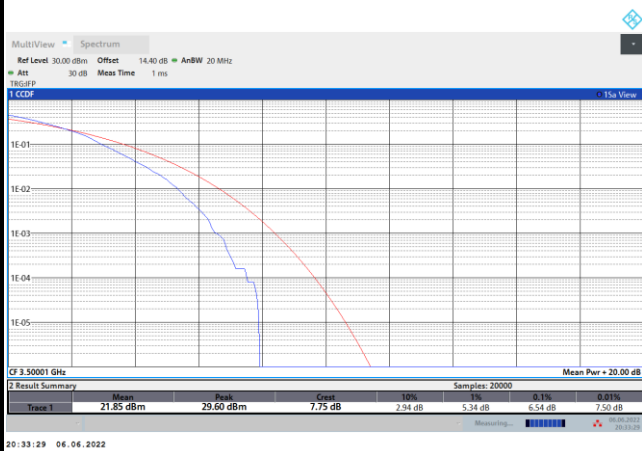
16QAM



64QAM



256QAM



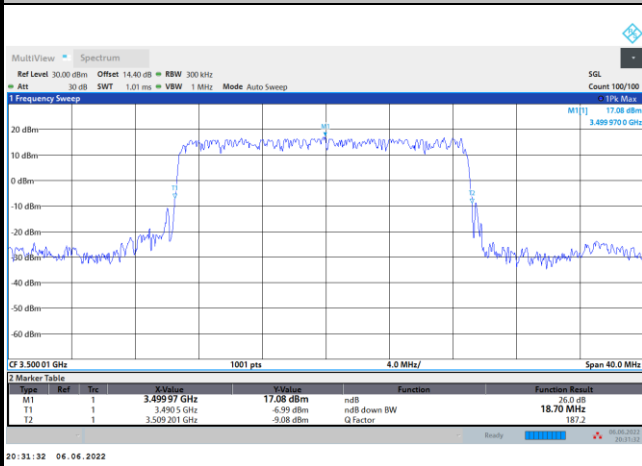
**26dB Bandwidth**

Mode	FR1 n77 : 26dB BW(MHz) / DFT-S OFDM							
BW	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz
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	18.70	-	-	38.20	48.35	60.42	-	79.92
BW	90MHz	100MHz						
Mod.	PI/2 BPSK	PI/2 BPSK						
Middle CH	89.73	99.50						

Mode	FR1 n77 : 26dB BW(MHz) / CP OFDM							
BW	20MHz		25MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	19.02	19.02	-	-	-	-	40.20	40.20
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	19.02	19.10	-	-	-	-	40.20	40.28
BW	50MHz		60MHz		70MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	50.05	50.25	60.54	60.42	-	-	80.24	80.40
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	50.05	50.05	60.42	60.54	-	-	80.40	80.40
BW	90MHz		100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	90.45	90.63	100.50	100.70				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	90.27	90.27	100.50	100.70				

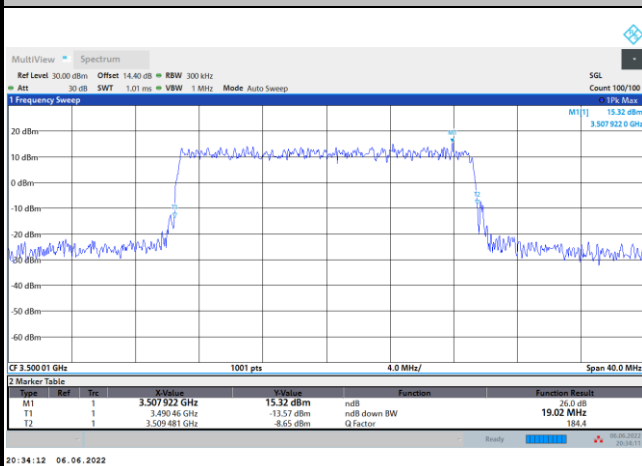
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

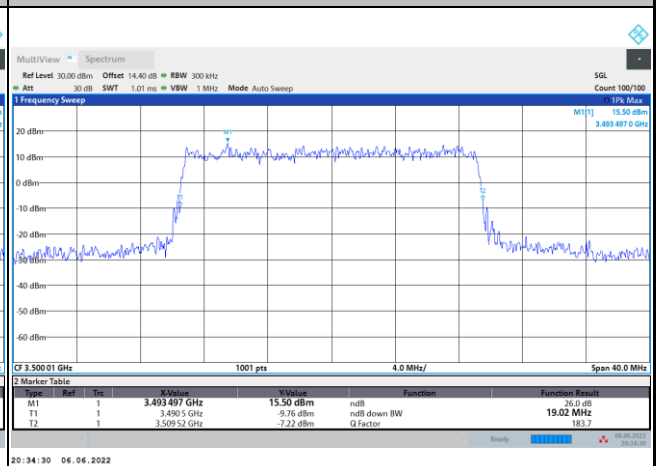


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

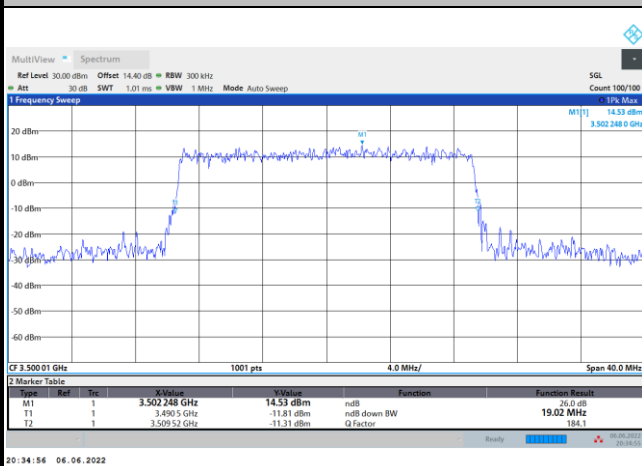
QPSK



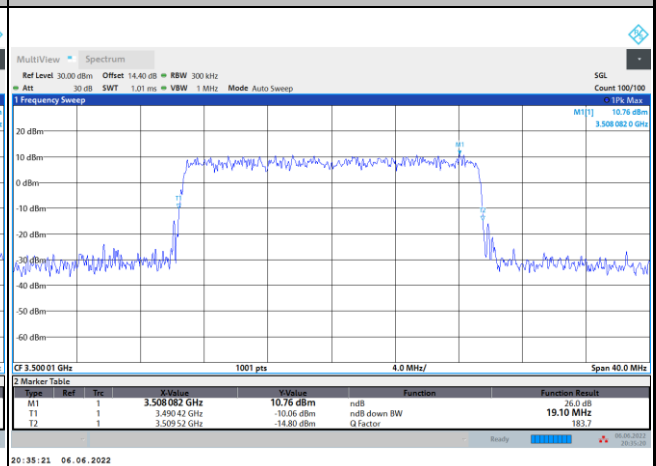
16QAM



64QAM



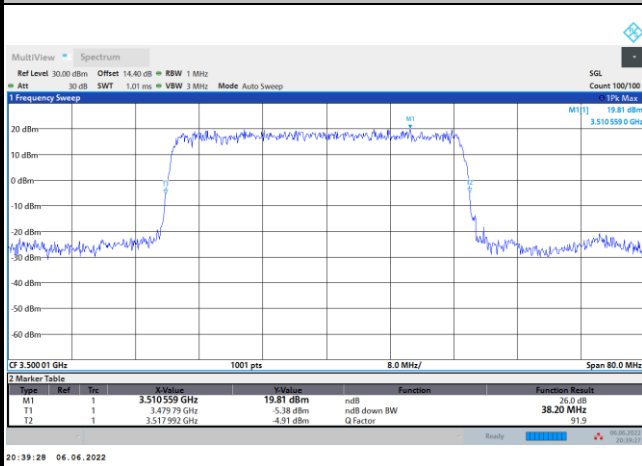
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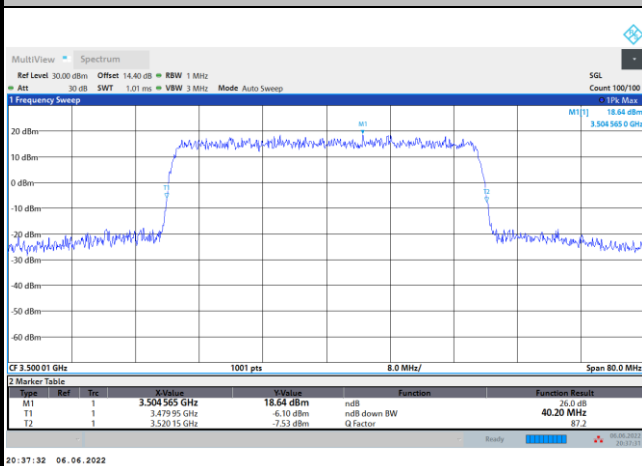
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

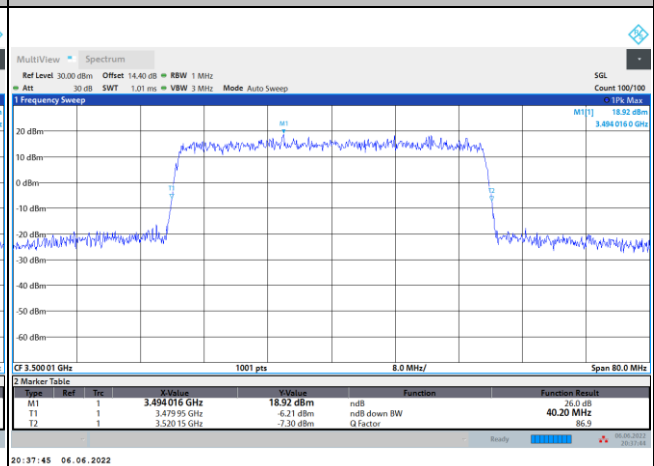


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

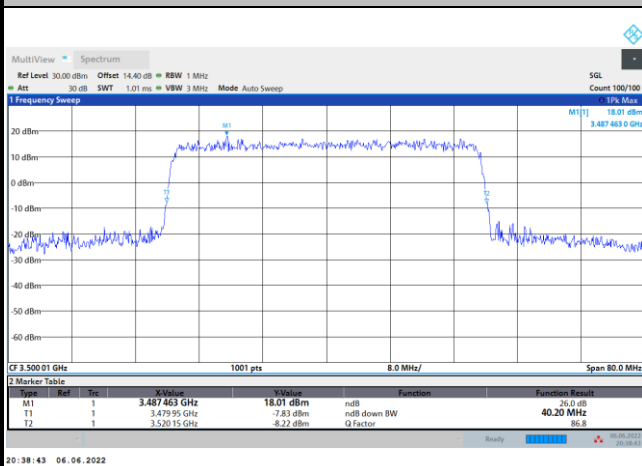
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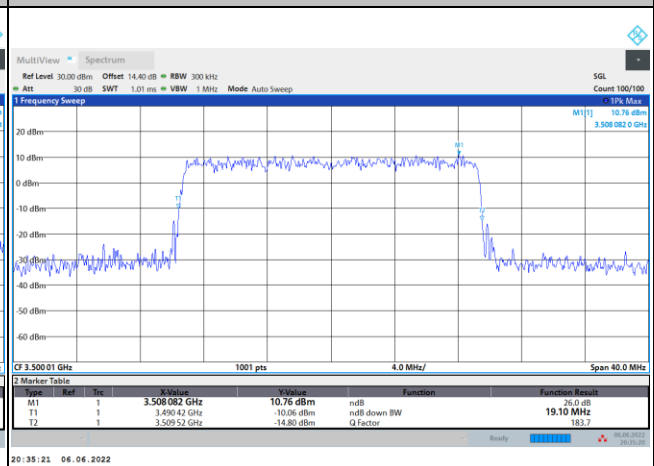
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64QAM



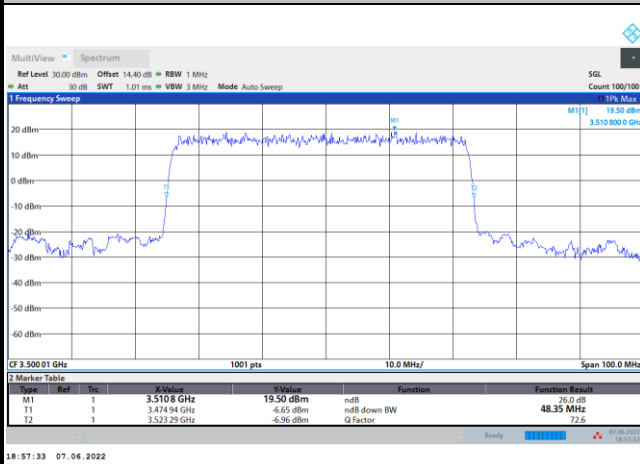
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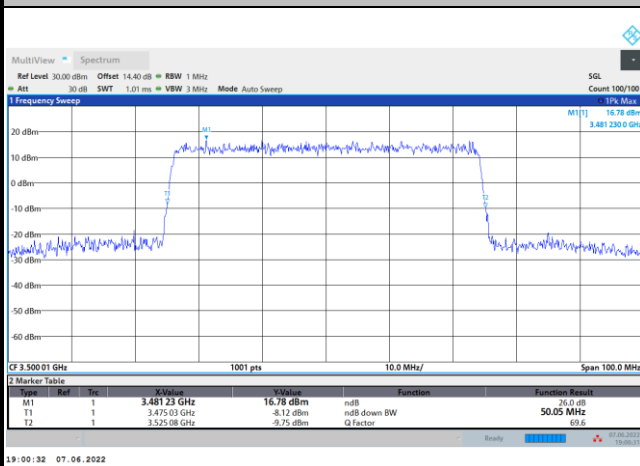
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PI/2 BPSK

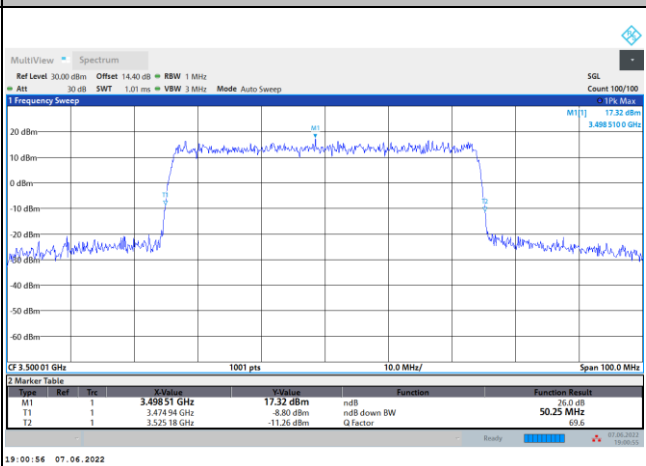


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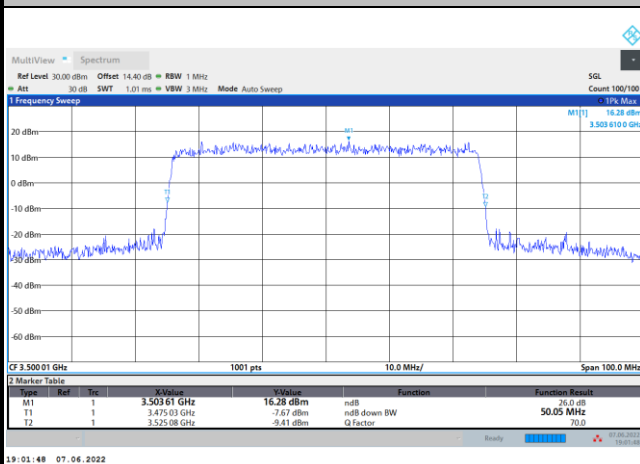
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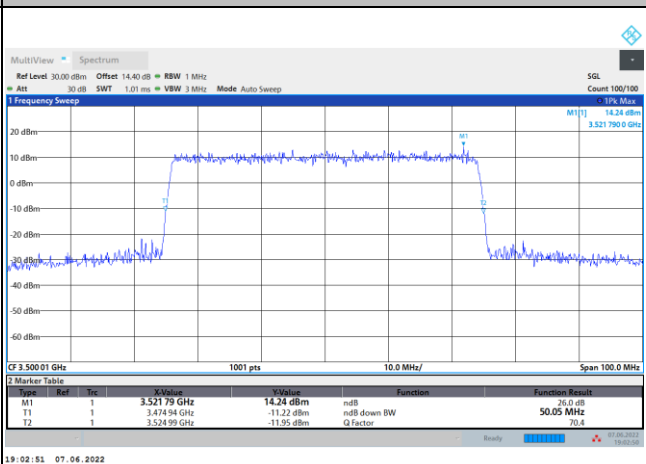
16QAM



64QAM



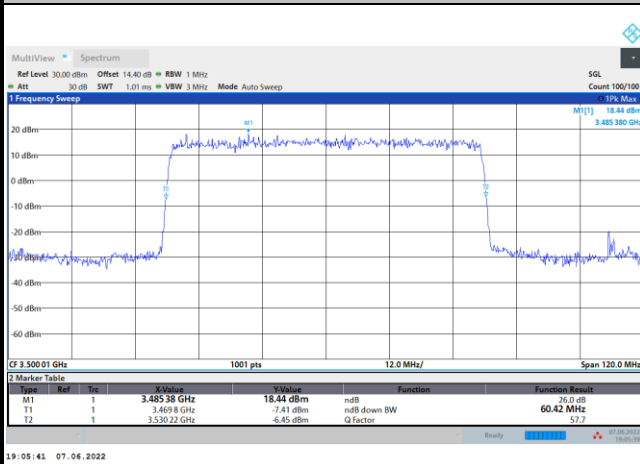
256QAM





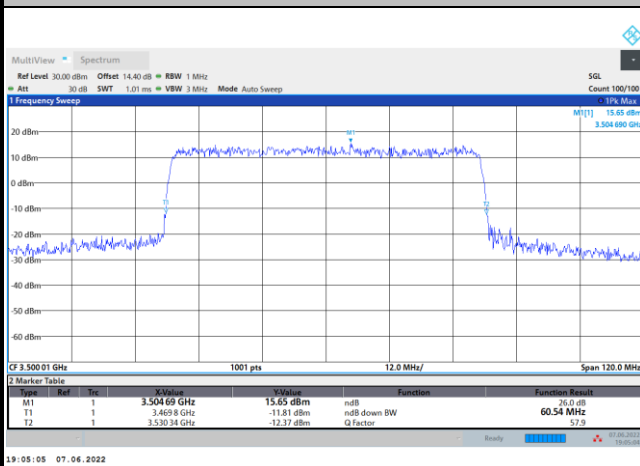
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

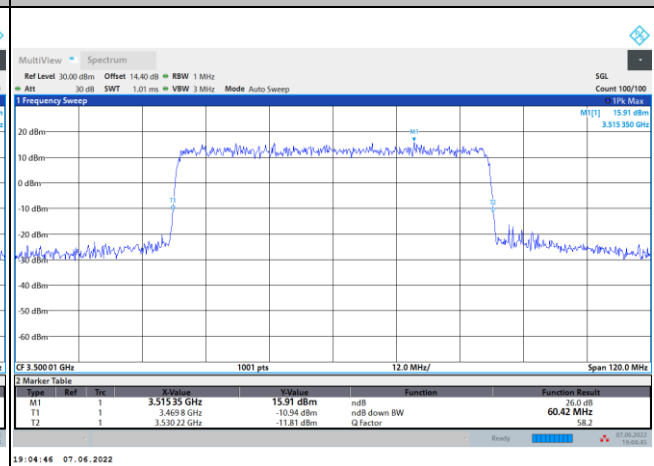


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

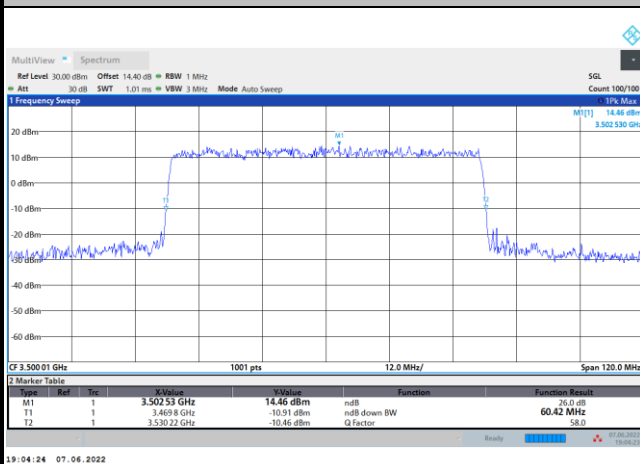
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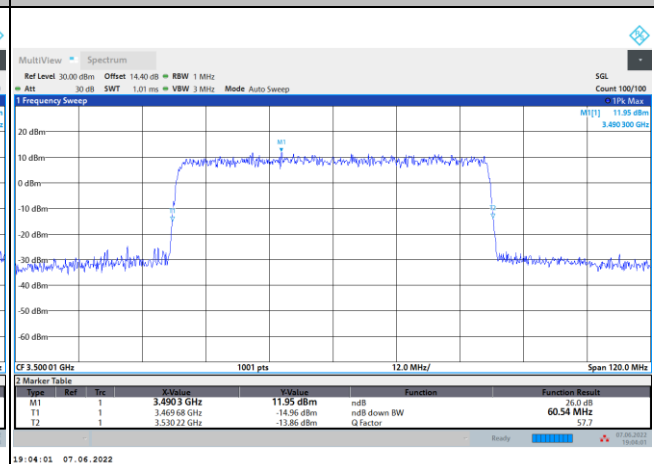
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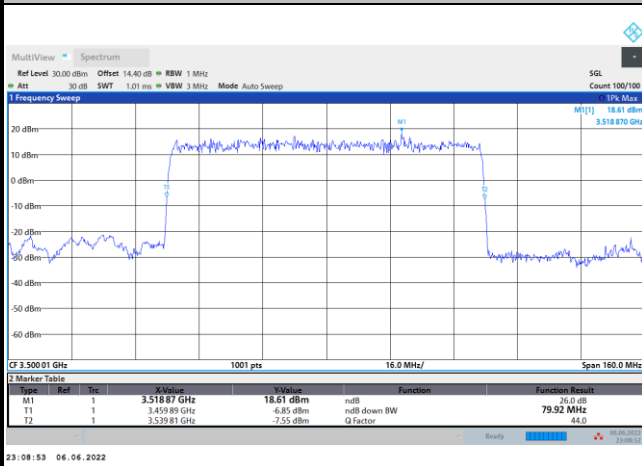
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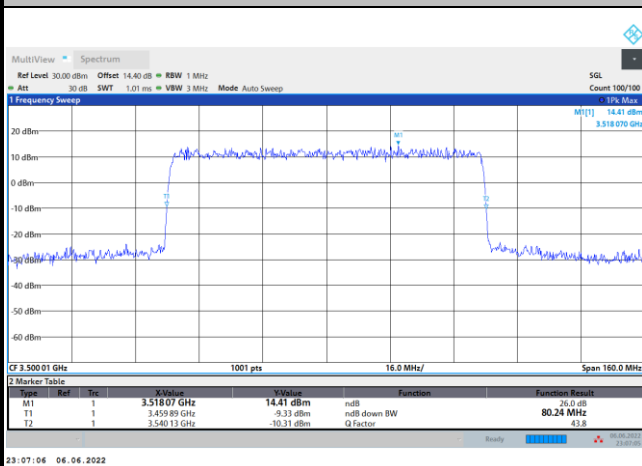
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

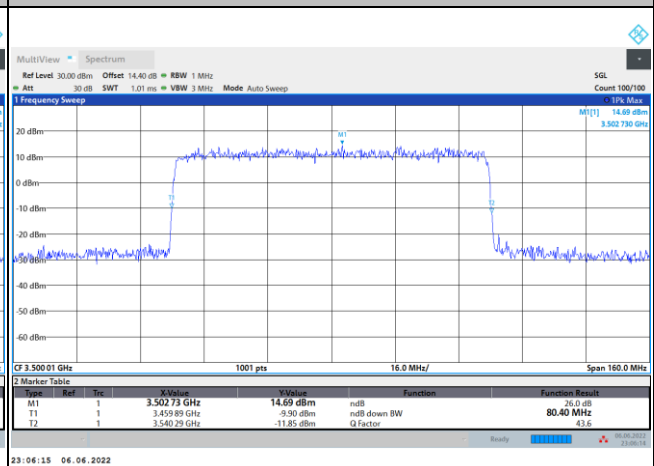


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

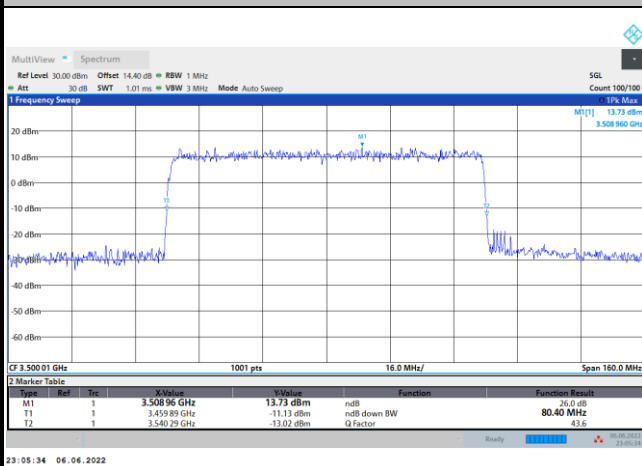
QPSK



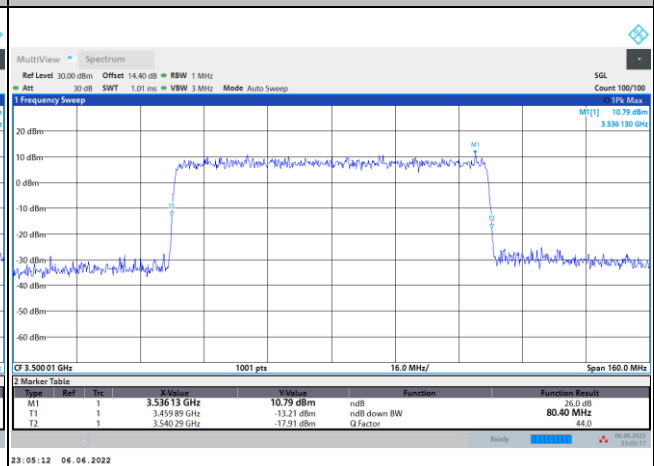
16QAM



64QAM



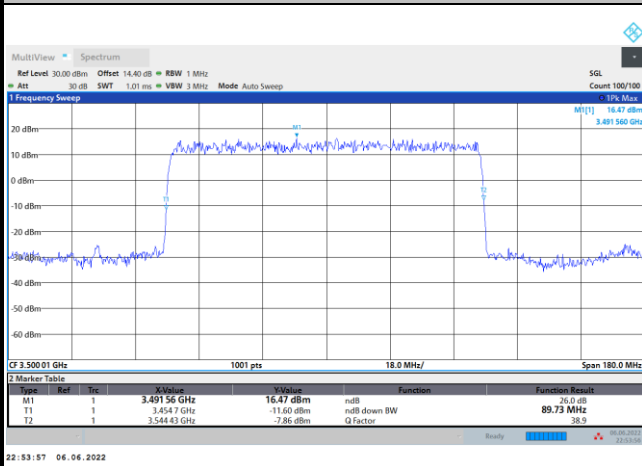
256QAM





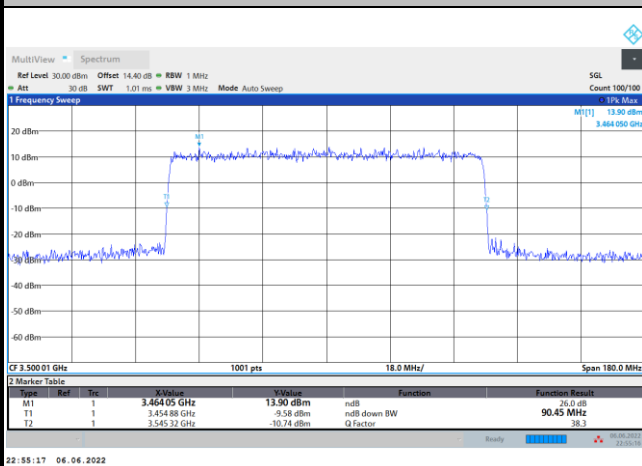
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

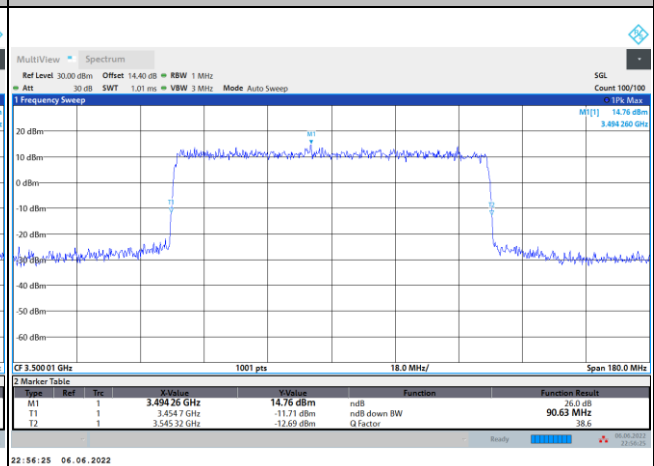


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

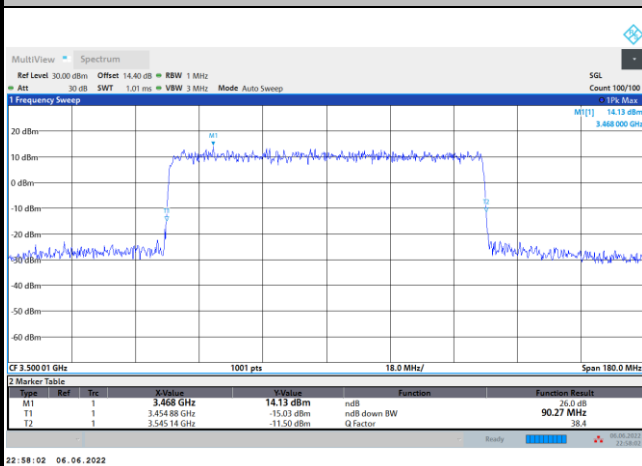
QPSK



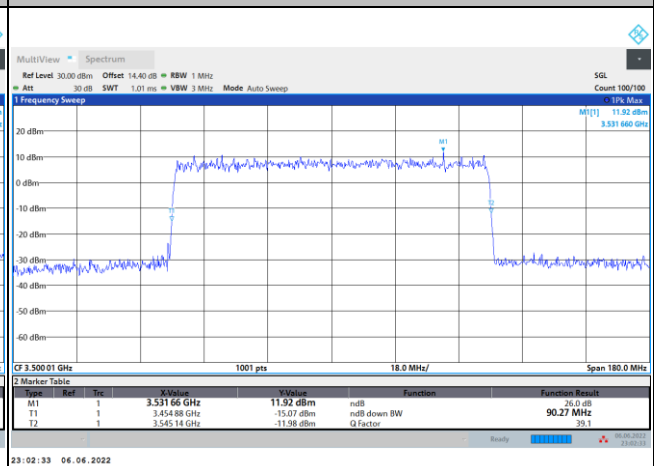
16QAM



64QAM

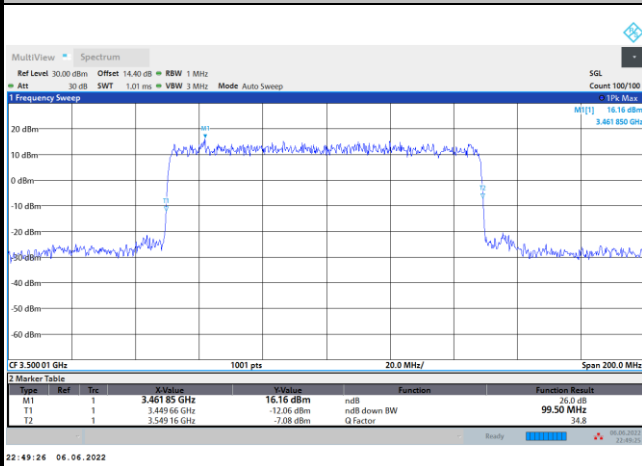


256QAM



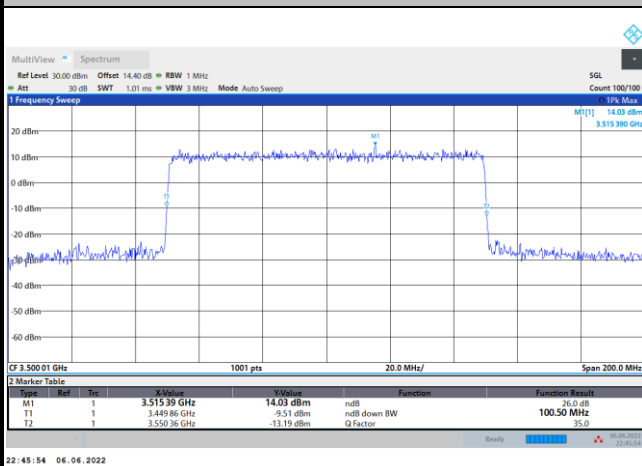
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

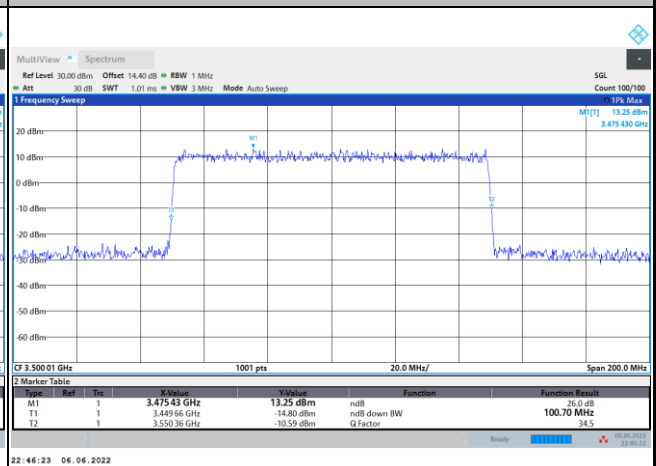


FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

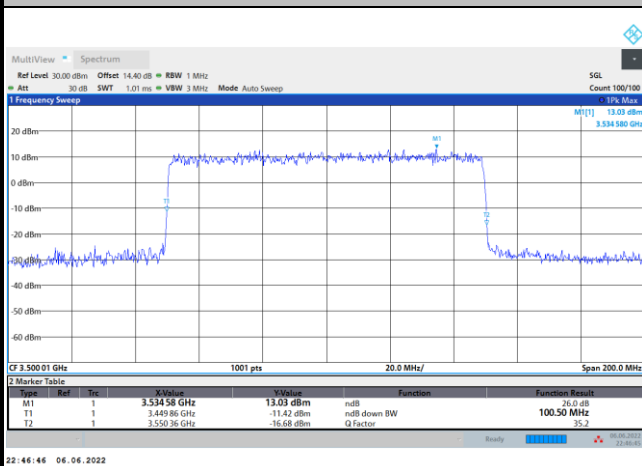
QPSK



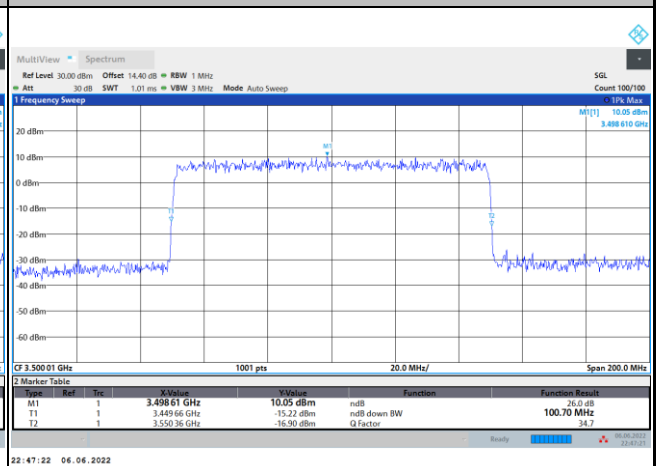
16QAM



64QAM



256QAM



**Occupied Bandwidth**

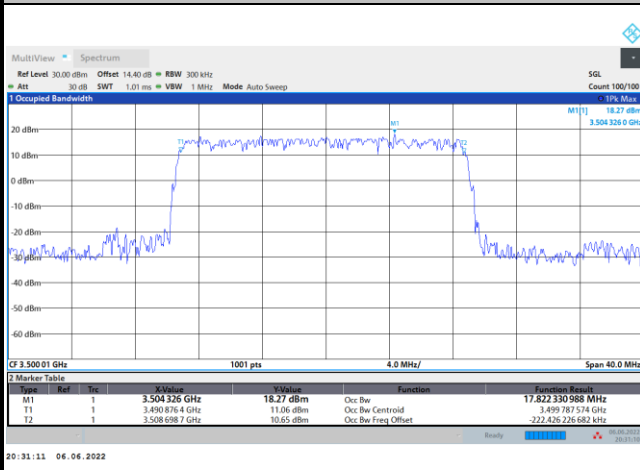
Mode	FR1 n77 : OB BW(MHz) / DFT-S OFDM							
BW	20MHz	25MHz	30MHz	40MHz	50MHz	60MHz	70MHz	80MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	17.82	-	-	35.94	45.71	57.94	-	76.69
BW	90MHz	100MHz						
Mod.	PI/2 BPSK	PI/2 BPSK						
Middle CH	86.56	95.99						

Mode	FR1 n77 : OB BW(MHz) / CP OFDM							
BW	20MHz		25MHz		30MHz		40MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	18.21	18.23	-	-	-	-	37.91	38.03
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	18.23	18.24	-	-	-	-	37.94	37.95
BW	50MHz		60MHz		70MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	47.54	47.59	57.73	57.88	-	-	77.28	77.46
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	47.47	47.48	57.78	57.82	-	-	77.32	77.25
BW	90MHz		100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM				
Middle CH	87.20	87.43	97.07	97.22				
Mod.	64QAM	256QAM	64QAM	256QAM				
Middle CH	87.47	87.24	97.35	97.28				



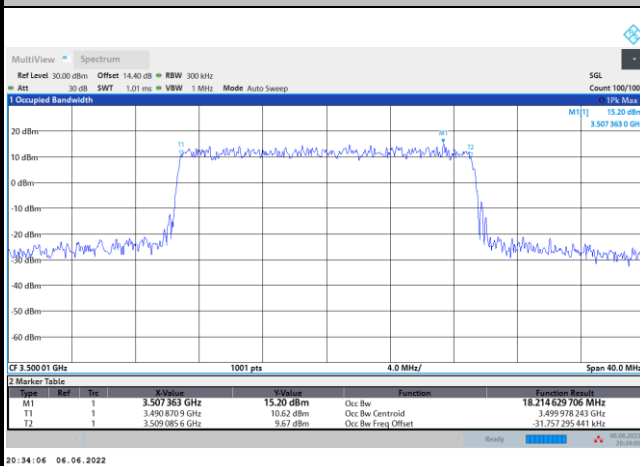
FR1 n77 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

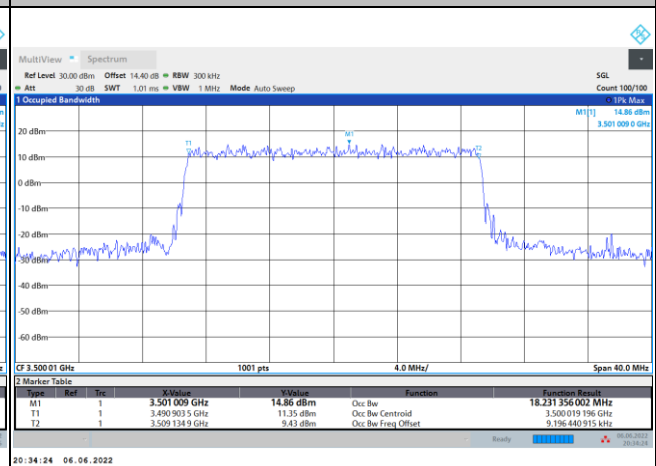


FR1 n77 / 20MHz / CP OFDM / Middle Channel / Full RB

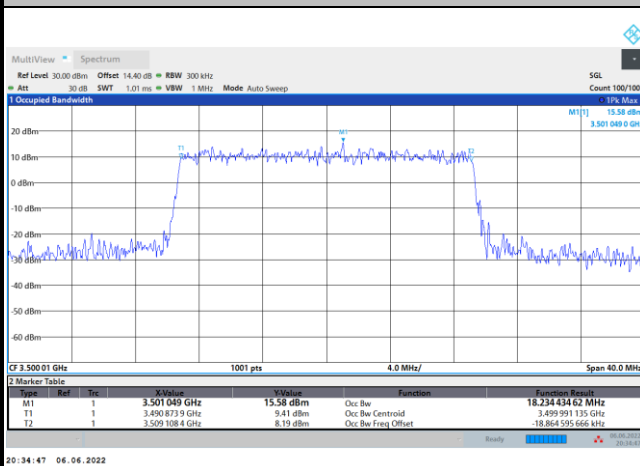
QPSK



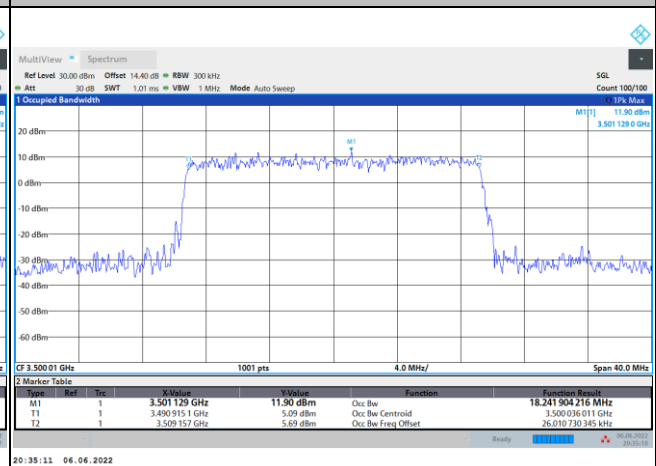
16QAM



64QAM

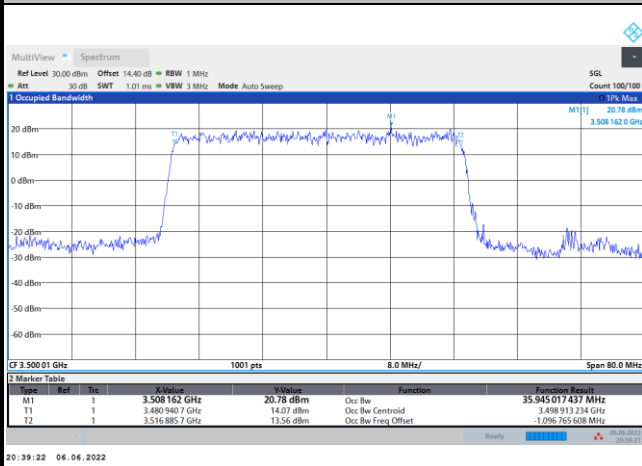


256QAM



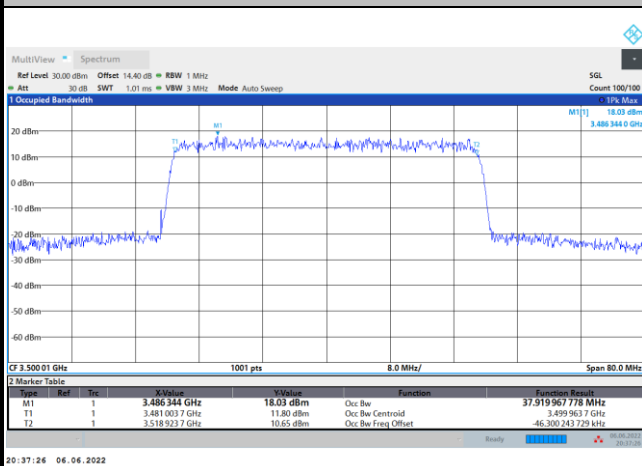
FR1 n77 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

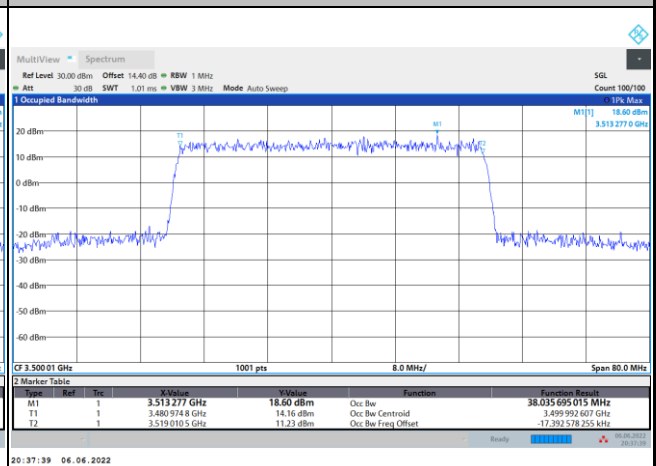


FR1 n77 / 40MHz / CP OFDM / Middle Channel / Full RB

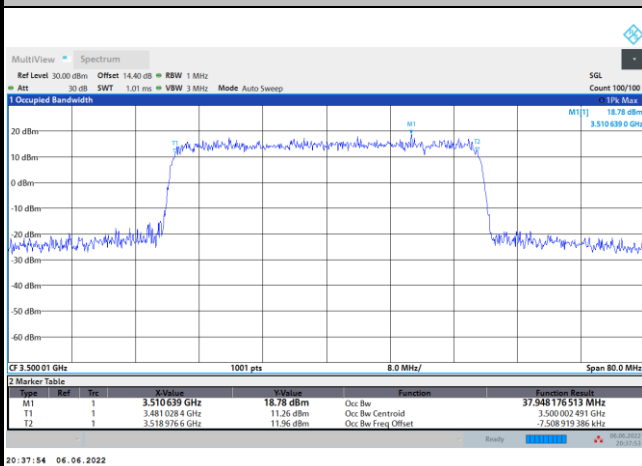
QPSK



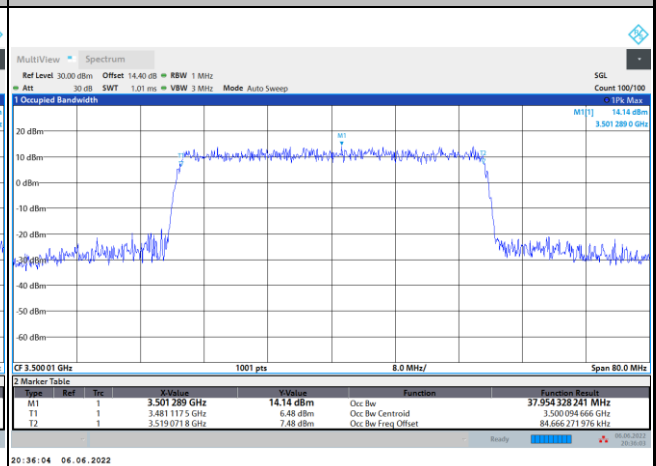
16QAM



64QAM



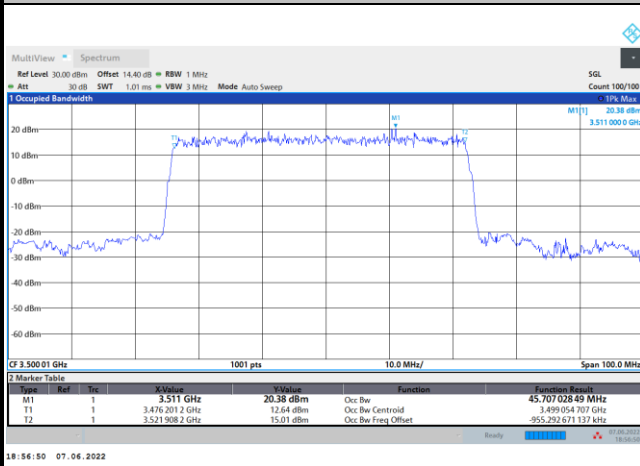
256QAM





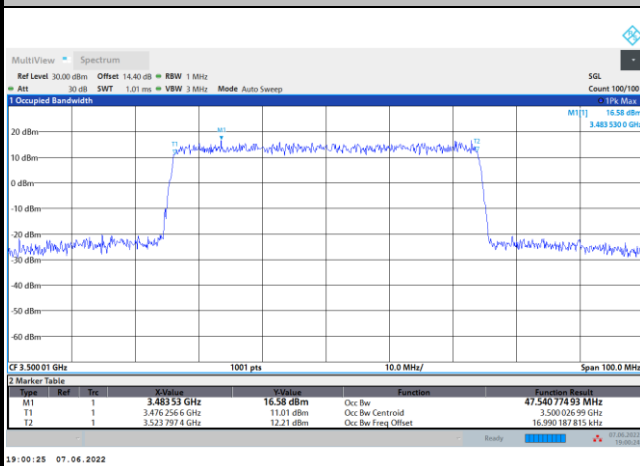
FR1 n77 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

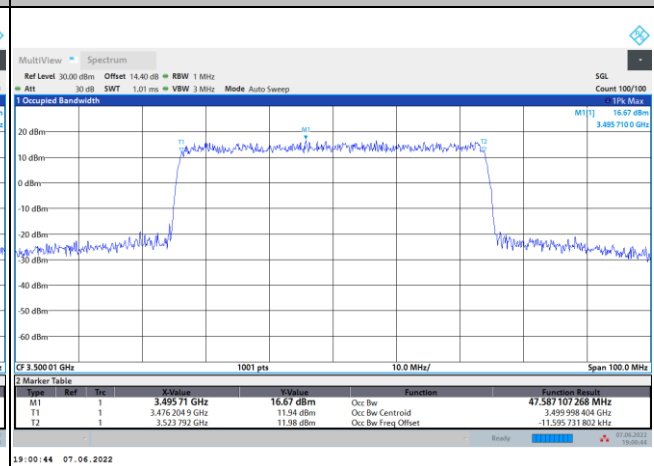


FR1 n77 / 50MHz / CP OFDM / Middle Channel / Full RB

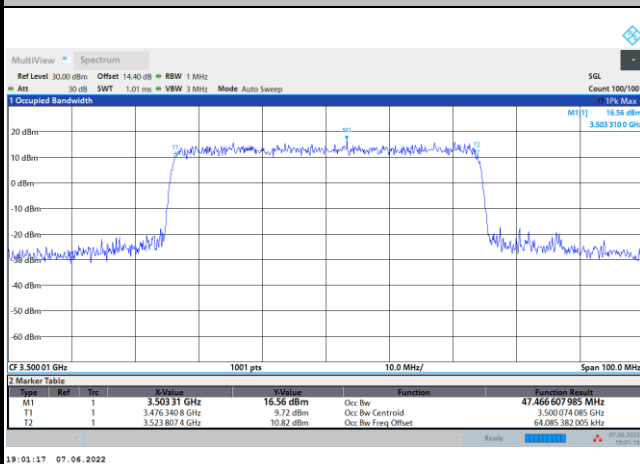
QPSK



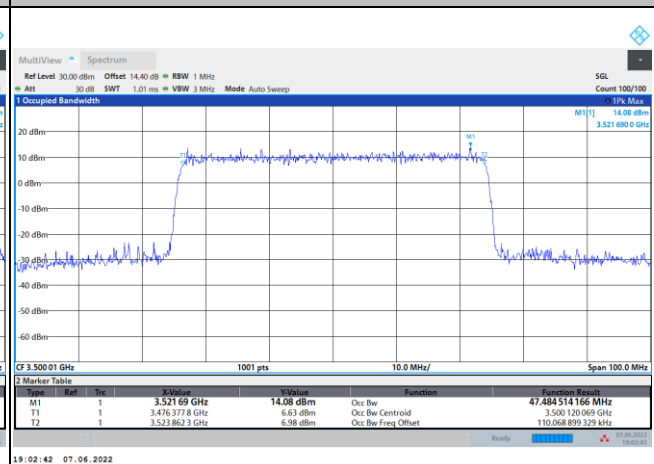
16QAM



64QAM



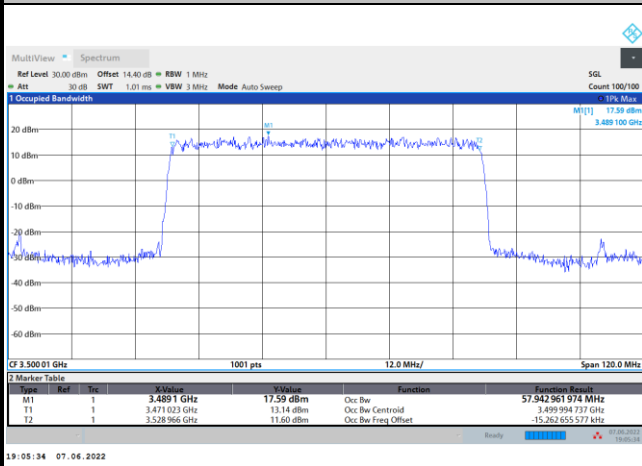
256QAM





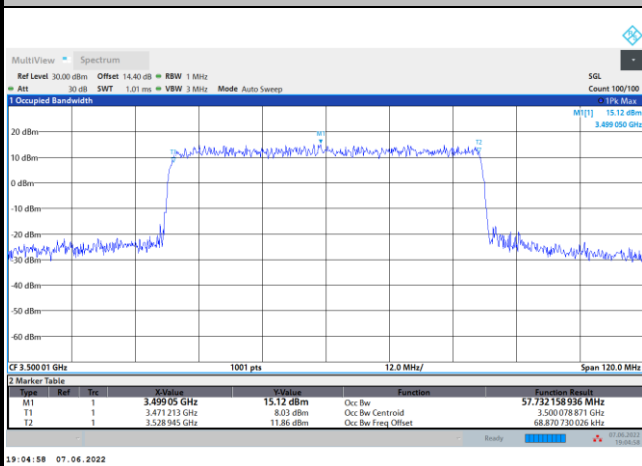
FR1 n77 / 60MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

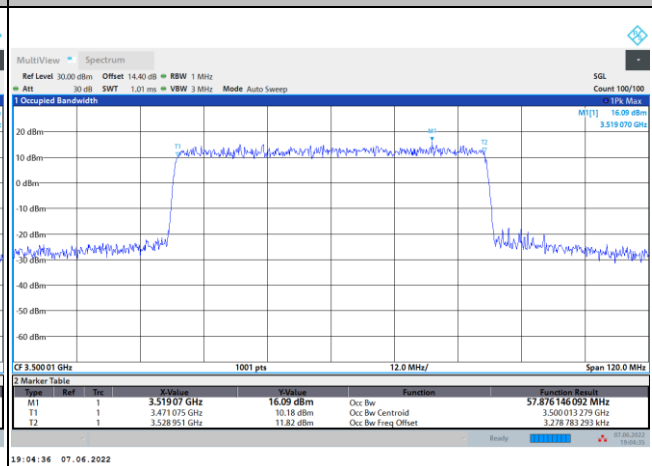


FR1 n77 / 60MHz / CP OFDM / Middle Channel / Full RB

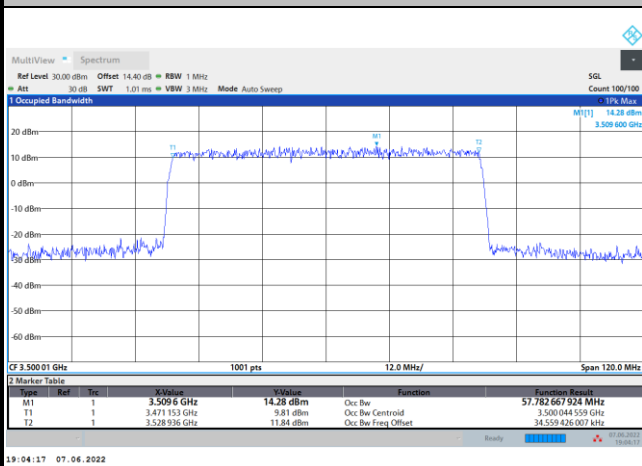
QPSK



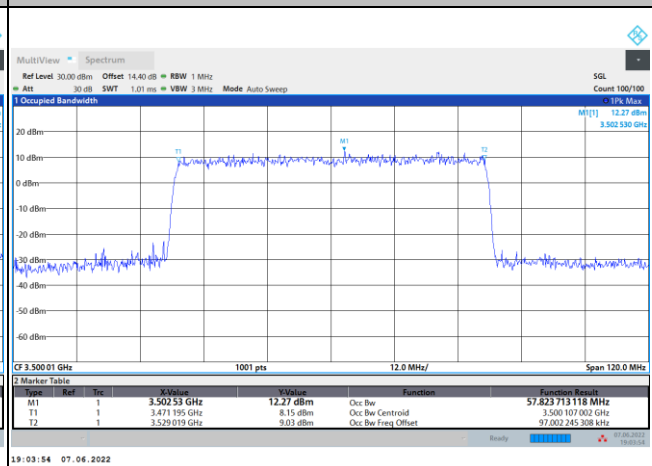
16QAM



64QAM



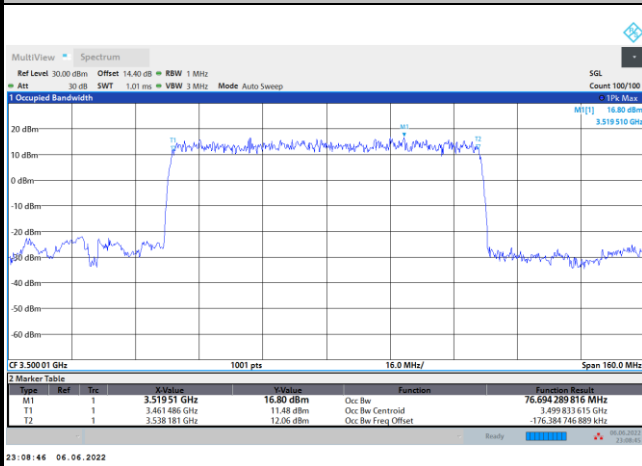
256QAM





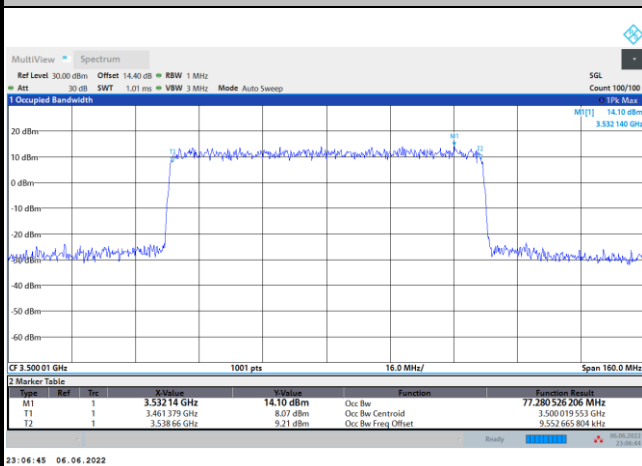
FR1 n77 / 80MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

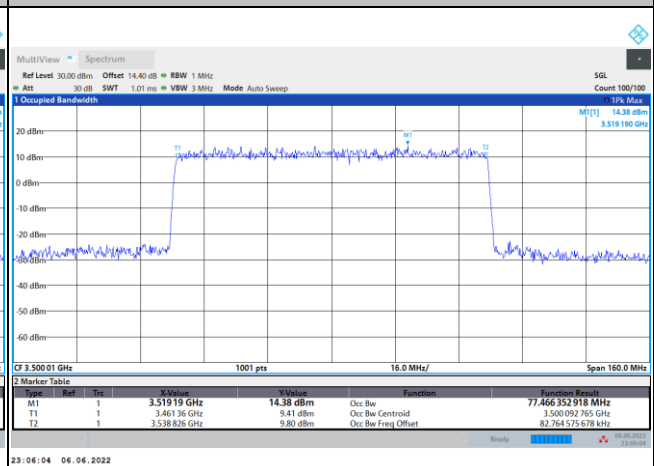


FR1 n77 / 80MHz / CP OFDM / Middle Channel / Full RB

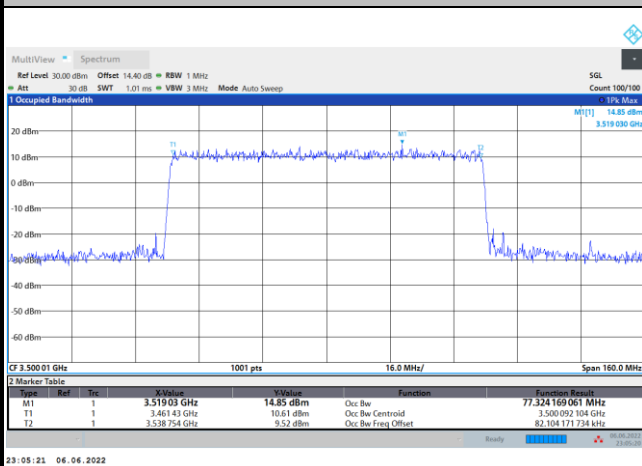
QPSK



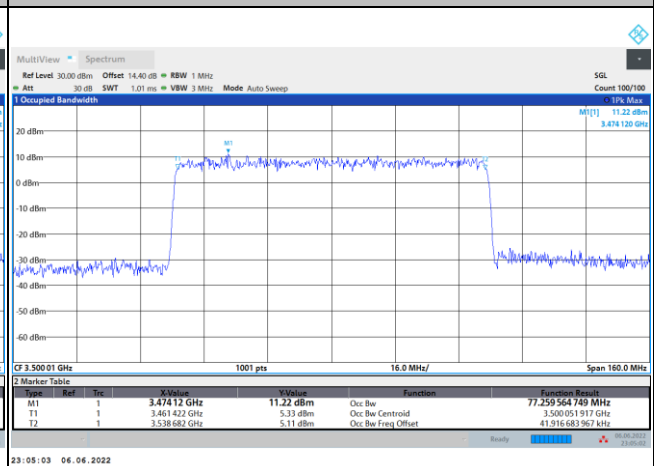
16QAM



64QAM



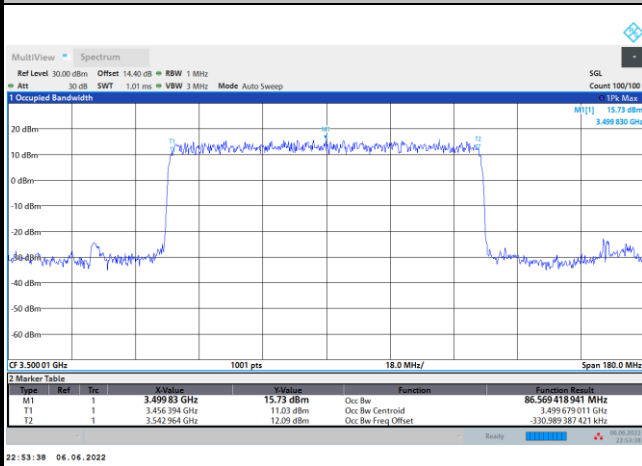
256QAM





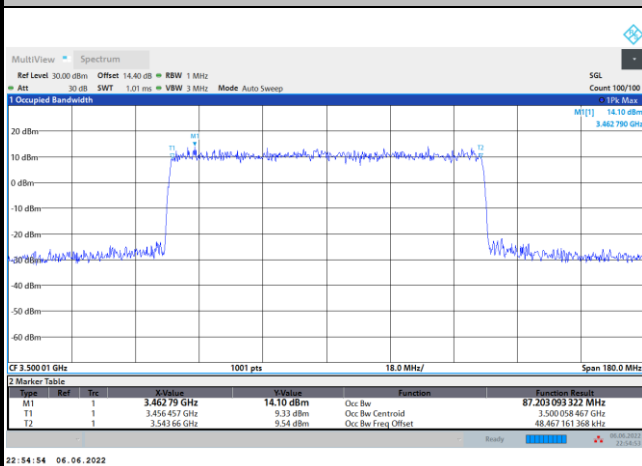
FR1 n77 / 90MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

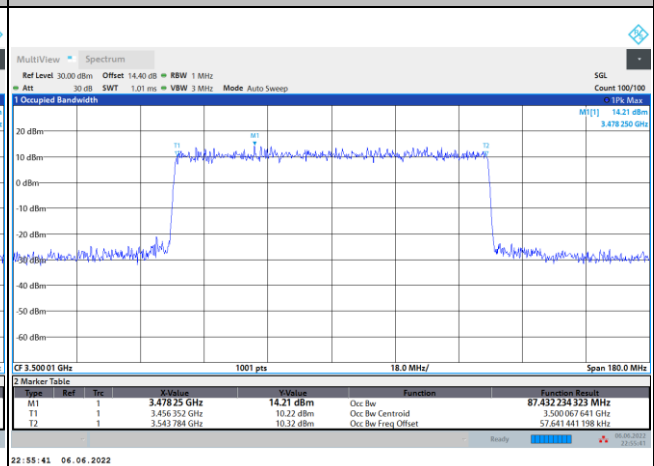


FR1 n77 / 90MHz / CP OFDM / Middle Channel / Full RB

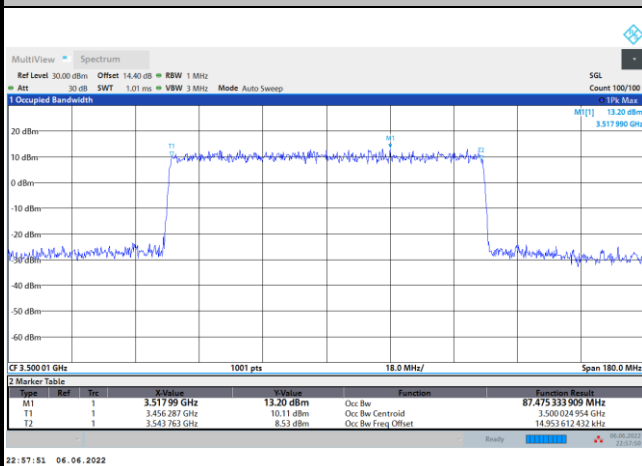
QPSK



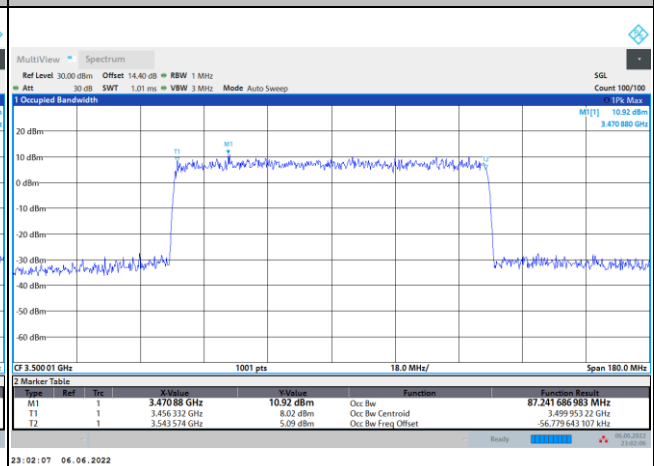
16QAM



64QAM



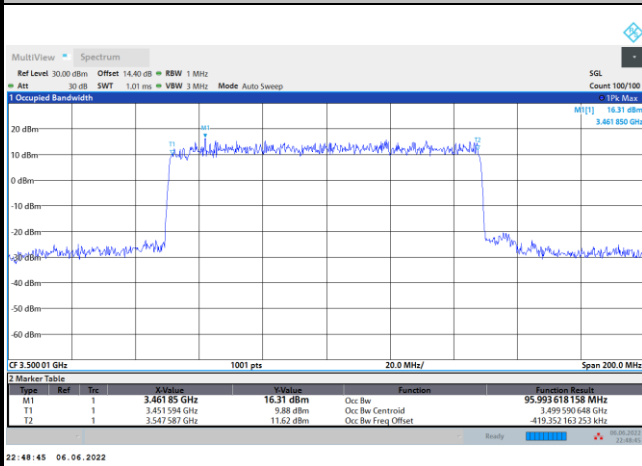
256QAM





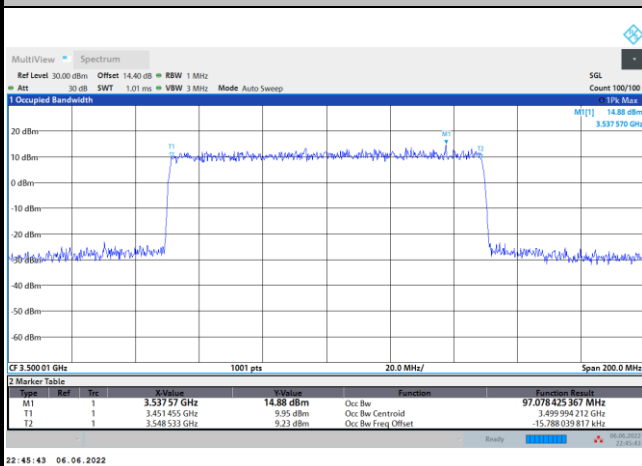
FR1 n77 / 100MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

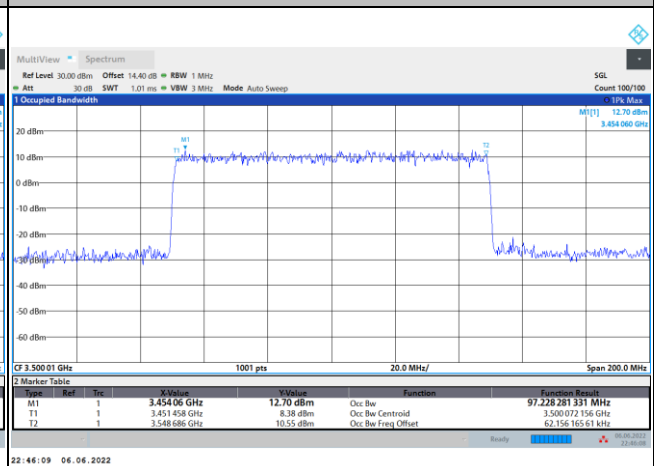


FR1 n77 / 100MHz / CP OFDM / Middle Channel / Full RB

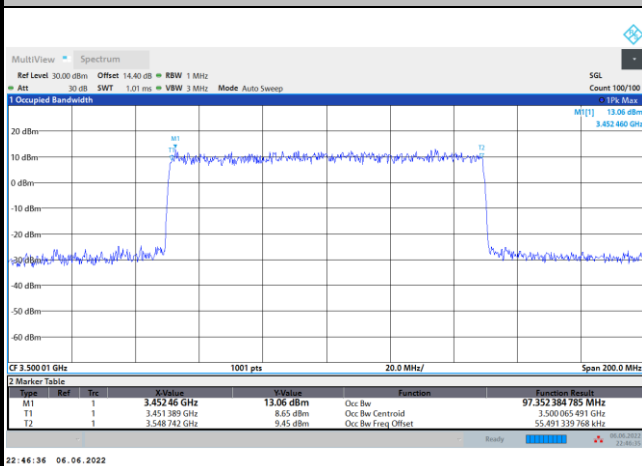
QPSK



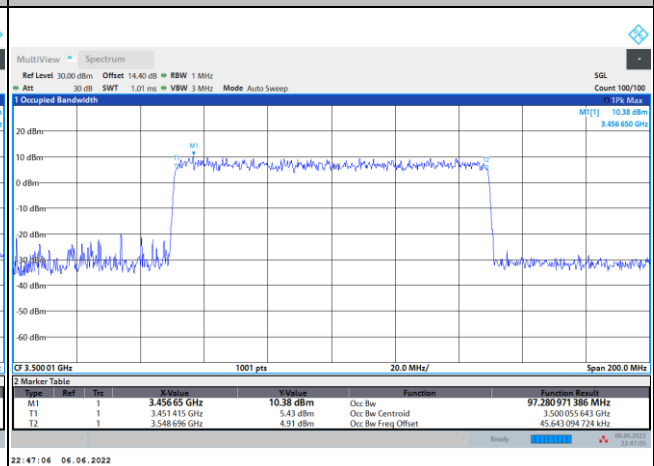
16QAM



64QAM



256QAM

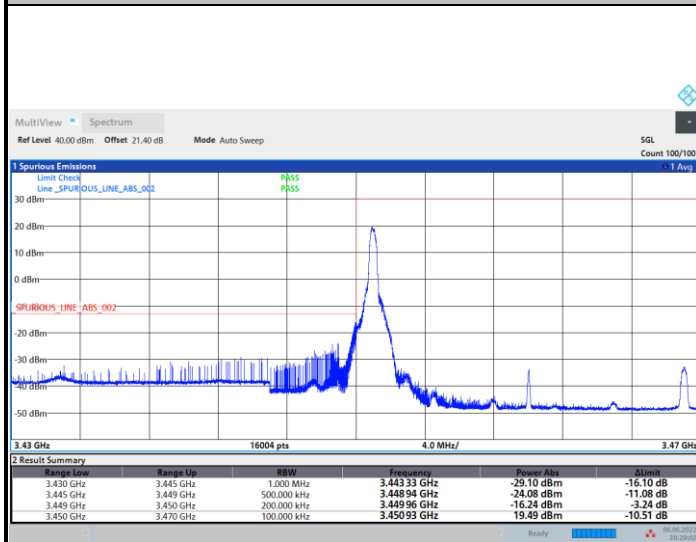




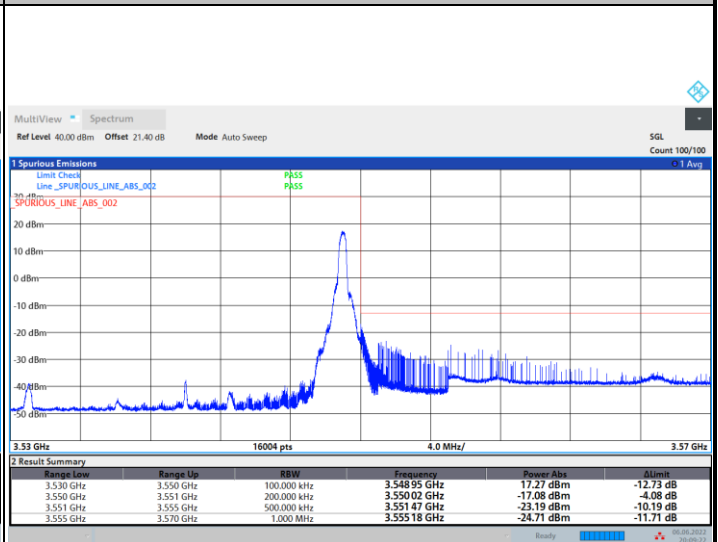
Conducted Band Edge

FR1 n77 / 20MHz / DFT-S OFDM / PI/2 BPSK

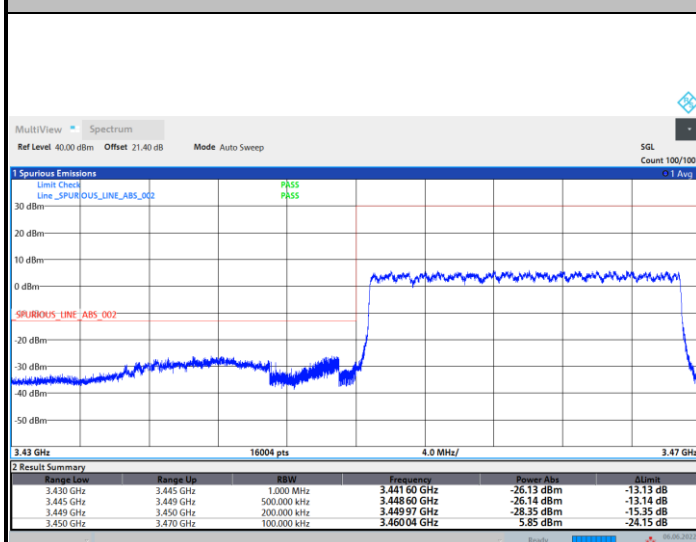
Lowest Band Edge / 1RB0



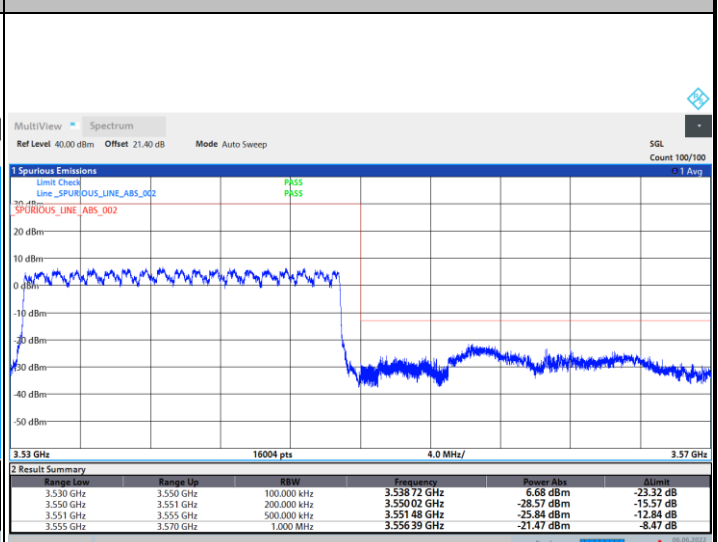
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

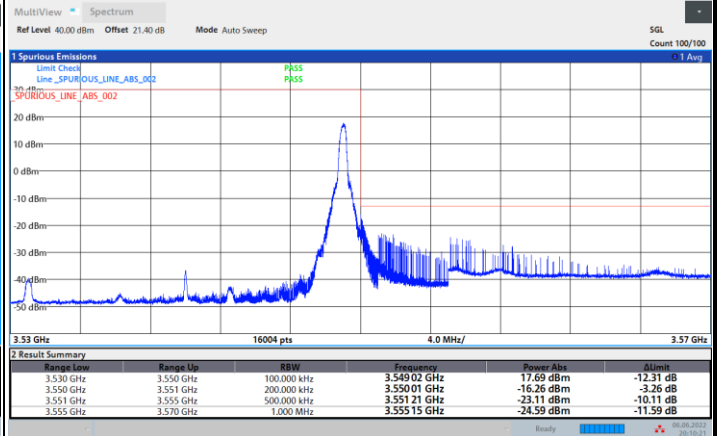
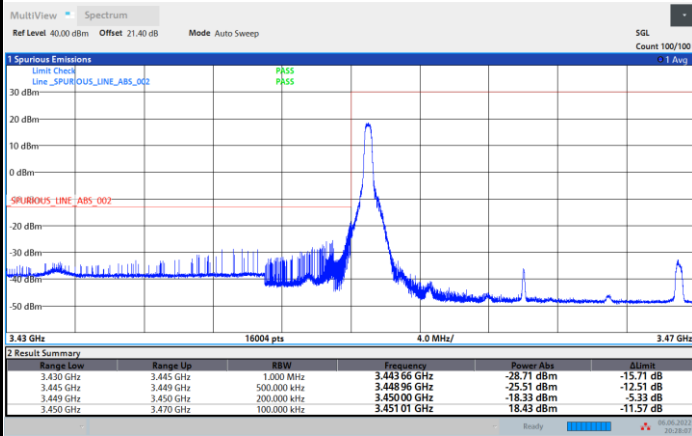




FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

