



# FCC RF Test Report

**APPLICANT** : Xiaomi Communications Co., Ltd.  
**EQUIPMENT** : Mobile Phone  
**BRAND NAME** : Xiaomi  
**MODEL NAME** : 2210132G  
**FCC ID** : 2AFZZ132G  
**STANDARD** : 47 CFR Part 2, 27(O)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)  
**TEST DATE(S)** : Sep. 24, 2022 ~ Oct. 31, 2022

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



**Sporton International Inc. (ShenZhen)**

**1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055**

**People's Republic of China**



TABLE OF CONTENTS

REVISION HISTORY... 3
SUMMARY OF TEST RESULT ... 4
1 GENERAL DESCRIPTION ... 5
1.1 Applicant ... 5
1.2 Manufacturer ... 5
1.3 Product Feature of Equipment Under Test ... 5
1.4 Product Specification of Equipment Under Test ... 5
1.5 Modification of EUT ... 6
1.6 Maximum EIRP Power and Emission Designator ... 6
1.7 Testing Location ... 8
1.8 Test Software ... 8
1.9 Applicable Standards ... 8
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST ... 9
2.1 Test Mode ... 9
2.2 Connection Diagram of Test System ... 10
2.3 Support Unit used in test configuration and system ... 10
2.4 Measurement Results Explanation Example ... 10
2.5 Frequency List of Low/Middle/High Channels ... 11
3 CONDUCTED TEST ITEMS ... 13
3.1 Measuring Instruments ... 13
3.2 Test Setup ... 13
3.3 Test Result of Conducted Test ... 13
3.4 Conducted Output Power and EIRP ... 14
3.5 Peak-to-Average Ratio ... 15
3.6 Occupied Bandwidth ... 16
3.7 Conducted Band Edge ... 17
3.8 Conducted Spurious Emission ... 18
3.9 Frequency Stability ... 19
4 RADIATED TEST ITEMS ... 20
4.1 Measuring Instruments ... 20
4.2 Test Setup ... 20
4.3 Test Result of Radiated Test ... 21
4.4 Radiated Spurious Emission ... 22
5 LIST OF MEASURING EQUIPMENT ... 23
6 UNCERTAINTY OF EVALUATION ... 24
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS





### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(j)(3)	Equivalent Isotropic Radiated Power (5G NR n77, n78)	EIRP < 1Watt		
3.5	§24.232(d) §27.50(j)(4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(l)(2)	Conducted Band Edge (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	-
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(l)(2)	Radiated Spurious Emission (5G NR n77, n78)	< 43+10log <sub>10</sub> (P[Watts])	PASS	Under limit 30.40 dB at 7618.500 MHz

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



# 1 General Description

## 1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2210132G
FCC ID	2AFZZ132G
IMEI Code	Conducted : 862836060031790/862836060031808 Radiation : 862836060030511/862836060030529
HW Version	P2.0
SW Version	MIUI 14
EUT Stage	Identical Prototype

## 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	30kHz
Bandwidth	5G NR n77/n78: 10MHz / 15MHz / 20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Antenna Gain	<Ant. 1> n77 : -4.00 dBi n78 : -4.00 dBi <Ant. 3> n77 : -1.60 dBi n78 : -1.60 dBi <Ant. 10> n77 : -2.70 dBi n78 : -2.70 dBi <Ant. 13> n77 : -3.20 dBi n78 : -3.20 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM



Remark:

1. The maximum EIRP is calculated from max Output power and antenna gain, only the maximum EIRP are shown in the report, 5G NR n77/n78 for Antenna 3 and n77 UL MIMO for Antenna 3+10.
2. 5G NR n77 support SA mode and n78 support SA&NSA mode. The whole testing has assessed SA mode for n77/78 and n77 cover n78 by referring to the higher conducted power for conducted test items.
3. 5G NR n77/n78 support HPUE mode and UL MIMO mode, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
4. 5G NR n77/n78 support MIMO Antenna Ant(10+3)/Ant(10+13)/Ant(1+3)/Ant(1+13), only the maximum Ant(3+10) is shown in the report
5. For n77 MIMO mode, the conducted BE/Spurious are tested at single antenna port and add  $10 \cdot \log(N_{ANT})$  according to KDB 662911 D01.
6. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
7. The EN-DC mode combination could be referred to the product spec.

### 1.5 Modification of EUT

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

### 1.6 Maximum EIRP Power and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.3027	8M59G7D	0.2793	8M59W7D
15	3707.52 ~ 3972.48	0.3155	13M6G7D	0.2944	13M6W7D
20	3710.01 ~ 3969.99	0.3155	18M2G7D	0.2877	18M2W7D
30	3715.02 ~ 3964.98	0.3141	27M8G7D	0.2931	27M9W7D
40	3720.00 ~ 3960.00	0.3141	37M8G7D	0.3034	37M9W7D
50	3725.01 ~ 3954.99	0.3048	47M5G7D	0.2838	47M5W7D
60	3730.02 ~ 3949.98	0.3034	58M1G7D	0.2773	57M9W7D
70	3735.00 ~ 3945.00	0.2985	67M6G7D	0.2742	67M5W7D
80	3740.01 ~ 3939.99	0.2958	77M5G7D	0.2735	77M6W7D
90	3745.02 ~ 3934.98	0.2944	87M7G7D	0.2735	87M7W7D
100	3750.00 ~ 3930.00	0.3236	97M5G7D	0.2704	97M7W7D



5G NR n77 UL MIMO		QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.3207	8M59G7D	0.2932	8M60W7D
15	3707.52 ~ 3972.48	0.3242	13M6G7D	0.2823	13M6W7D
20	3710.01 ~ 3969.99	0.3189	18M2G7D	0.2722	18M2W7D
30	3715.02 ~ 3964.98	0.3121	27M9G7D	0.2806	27M9W7D
40	3720.00 ~ 3960.00	0.3069	37M9G7D	0.2667	37M9W7D
50	3725.01 ~ 3954.99	0.2848	47M4G7D	0.2472	47M5W7D
60	3730.02 ~ 3949.98	0.2832	57M8G7D	0.2509	57M9W7D
70	3735.00 ~ 3945.00	0.276	67M6G7D	0.2495	67M7W7D
80	3740.01 ~ 3939.99	0.2758	77M6G7D	0.2416	77M6W7D
90	3745.02 ~ 3934.98	0.2752	87M7G7D	0.2378	87M6W7D
100	3750.00 ~ 3930.00	0.4477	97M6G7D	0.3802	97M6W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.2965	8M59G7D	0.257	8M59W7D
15	3707.52 ~ 3792.48	0.3062	13M6G7D	0.26	13M6W7D
20	3710.01 ~ 3789.99	0.3034	18M2G7D	0.2704	18M2W7D
30	3715.02 ~ 3784.98	0.3083	27M8G7D	0.2704	27M9W7D
40	3720.00 ~ 3780.00	0.3083	37M8G7D	0.2767	37M9W7D
50	3725.01 ~ 3774.99	0.2985	47M5G7D	0.2735	47M5W7D
60	3730.02 ~ 3769.98	0.2924	58M1G7D	0.2735	57M9W7D
70	3735.00 ~ 3765.00	0.2812	67M6G7D	0.2667	67M5W7D
80	3740.01 ~ 3759.99	0.2812	77M5G7D	0.2618	77M6W7D
90	3745.02 ~ 3754.98	0.278	87M7G7D	0.2541	87M7W7D
100	3750.00	0.309	97M5G7D	0.2642	97M7W7D

Note:

1. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.
2. 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.



### 1.7 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

<b>Test Firm</b>	Sporton International Inc. (Shenzhen)		
<b>Test Site Location</b>	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People’s Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	TH01-SZ	CN1256	421272

<b>Test Firm</b>	Sporton International Inc. (Shenzhen)		
<b>Test Site Location</b>	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
<b>Test Site No.</b>	<b>Sporton Site No.</b>	<b>FCC Designation No.</b>	<b>FCC Test Firm Registration No.</b>
	03CH04-SZ	CN1256	421272

### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24

### 1.9 Applicable Standards

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

- ♦ 47 CFR Part 2, 270
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.






## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

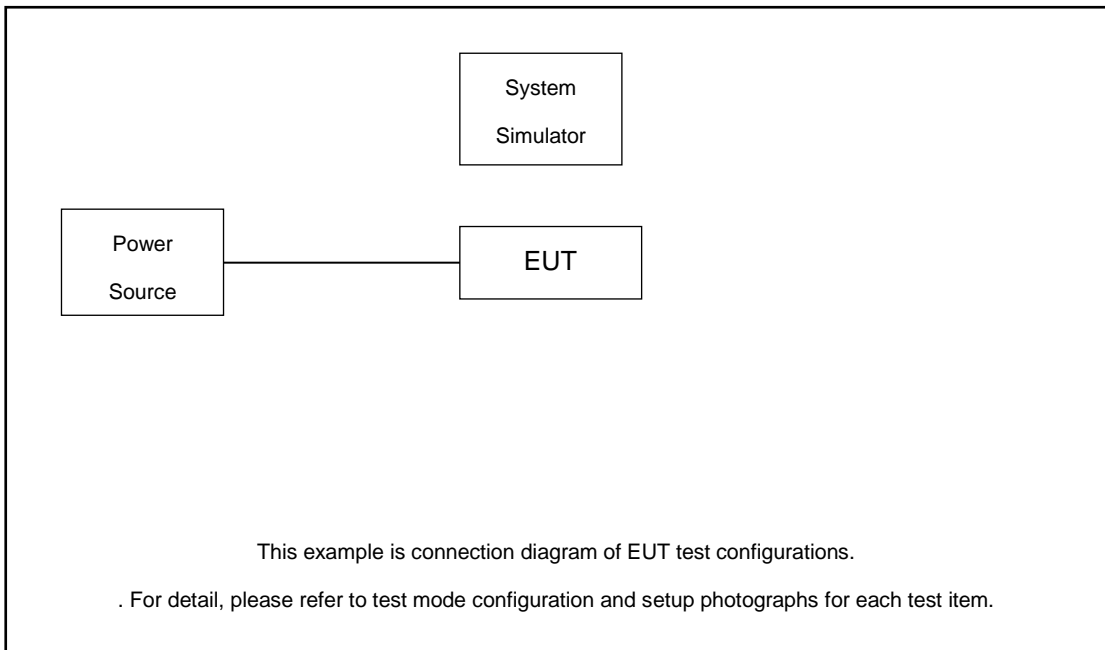
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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.

Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			

Test Items	5G NR	Bandwidth (MHz)											Modulation			RB #			Test Channel			
		10	15	20	30	40	50	60	70	80	90	100	PI/2 BPSK	QPSK	16/64/256 QAM	1	Partial	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	v	
	n78	v	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			v		v		
Conducted Band Edge	n77	v					v					v	v	v		v		v	v		v	
Conducted Spurious Emission	n77	v					v					v	v	v		v			v	v	v	
Frequency Stability	n77			v										v				v		v		
E.R.P / E.I.R.P	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
Radiated Spurious Emission	n77	Worst Case																			v	
	n78	Worst Case																			v	
Note	<ol style="list-style-type: none"> <li>The mark "v" means that this configuration is chosen for testing</li> <li>The mark "-" means that this bandwidth is not supported.</li> <li>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.</li> <li>Based on engineering evaluation, only the worst modulations test results are shown in the report.</li> <li>Frequency Stability : Normal Voltage = 3.89V ; Low Voltage =3.6V. ; High Voltage =4.48V</li> </ol>																					

## 2.2 Connection Diagram of Test System



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

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

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 5.88 dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.88 + 10 = 15.88 \text{ (dB)} \end{aligned}$$



### 2.5 Frequency List of Low/Middle/High Channels

5G n77 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000	656000	662000
	Frequency	3750	3840	3930
90	Channel	649668	656000	662332
	Frequency	3745.02	3840	3934.98
80	Channel	649334	656000	662666
	Frequency	3740.01	3840	3939.99
70	Channel	649000	656000	663000
	Frequency	3735	3840	3945
60	Channel	648668	656000	663332
	Frequency	3730.02	3840	3949.98
50	Channel	648334	656000	663666
	Frequency	3725.01	3840	3954.99
40	Channel	648000	656000	664000
	Frequency	3720	3840	3960
30	Channel	647668	656000	664332
	Frequency	3715.02	3840	3964.98
20	Channel	647334	656000	664666
	Frequency	3710.01	3840	3969.99
15	Channel	647168	656000	664832
	Frequency	3707.52	3840	3972.48
10	Channel	647000	656000	665000
	Frequency	3705	3840	3975



5G n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	650000		
	Frequency	3750		
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
20	Channel	647334	650000	652666
	Frequency	3710.01	3750	3789.99
15	Channel	647168	650000	652832
	Frequency	3707.52	3750	3792.48
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

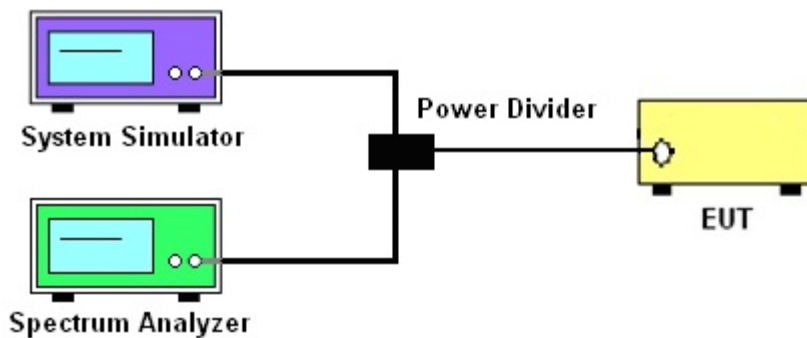
See list of measuring instruments of this test report.

#### 3.2 Test Setup

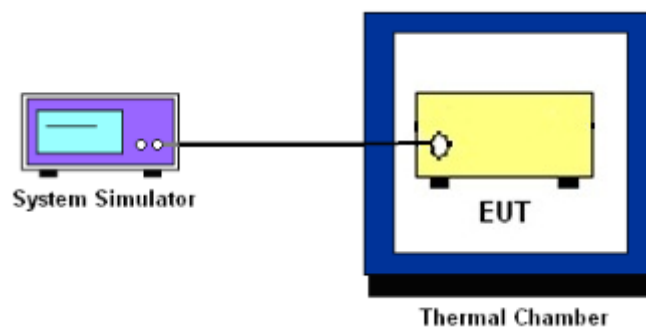
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.



### 3.4 Conducted Output Power and EIRP

#### 3.4.1 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, n78.

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

#### 3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.



## 3.5 Peak-to-Average Ratio

### 3.5.1 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.

### 3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



## 3.6 Occupied Bandwidth

### 3.6.1 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.

### 3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.





### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

27.53(l)(2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 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.

#### 3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW  $\geq$  1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
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. Offset has included the duty factor for n77/n78. Duty factor =  $10 \log (1/x)$ , where x is the measured duty cycle
9. Checked that all the results comply with the emission limit line.

Example:

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm.} \end{aligned}$$

10. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.



### 3.8 Conducted Spurious Emission

#### 3.8.1 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 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Offset has included the duty factor for Band n77/n78. Duty factor =  $10 \log (1/x)$ , where x is the measured duty cycle
11. The limit line is derived from  $43 + 10 \log (P)$  dB below the transmitter power P(Watts)  
=  $P(W) - [43 + 10 \log (P)]$  (dB)  
=  $[30 + 10 \log (P)]$  (dBm) -  $[43 + 10 \log (P)]$  (dB)  
= -13dBm.



## 3.9 Frequency Stability

### 3.9.1 Description of Frequency Stability Measurement

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

### 3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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.

### 3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at  $20\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

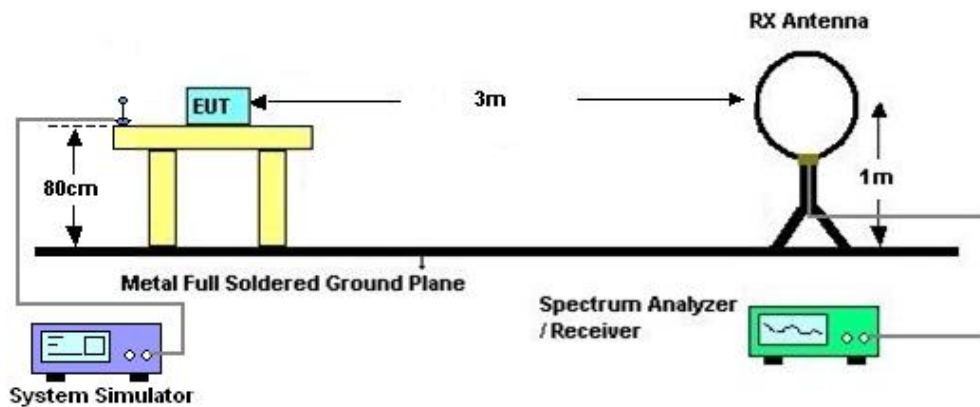
## 4 Radiated Test Items

### 4.1 Measuring Instruments

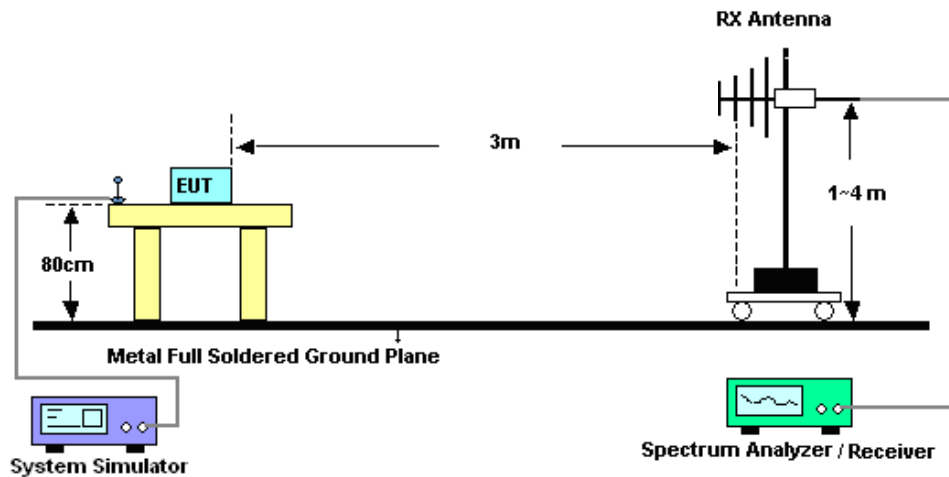
See list of measuring instruments of this test report.

### 4.2 Test Setup

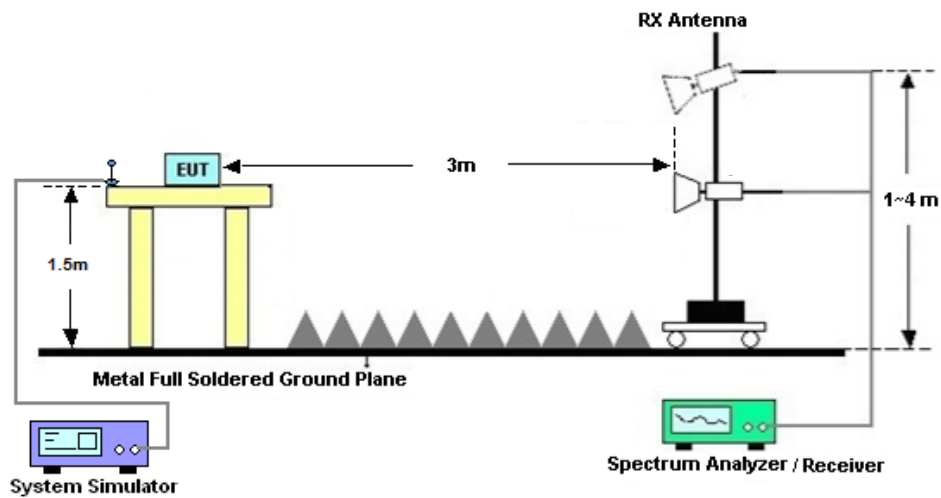
#### 4.2.1 For radiated test below 30MHz



#### 4.2.2 For radiated test from 30MHz to 1GHz



#### 4.2.3 For radiated test above 1GHz



#### 4.3 Test Result of Radiated Test

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.

Please refer to Appendix B.



## 4.4 Radiated Spurious Emission

### 4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. 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.

### 4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10.  $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11.  $ERP (dBm) = EIRP - 2.15$
12. 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)  
=  $P(W) - [43 + 10\log(P)] (dB)$   
=  $[30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$   
= -13dBm.



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2021	Sep. 24, 2022~ Oct. 31, 2022	Dec. 26, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Sep. 24, 2022~ Oct. 31, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 07, 2022	Sep. 24, 2022~ Oct. 31, 2022	Jul. 06, 2023	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07. 2022	Oct. 11, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Oct. 11, 2022	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 07. 2022	Oct. 11, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07. 2022	Oct. 11, 2022	Jul. 06, 2023	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1	1943528	1GHz~18GHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22,2021	Oct. 11, 2022	Oct. 21,2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Oct. 11, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 11, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 11, 2022	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required



## 6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.8dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.9dB
---	-------

----- THE END -----





## Appendix A. Test Results of Conducted Test

Test Engineer :	Jung Kuo	Temperature :	22~23°C
		Relative Humidity :	40~42%

# FR1 N77

## Transmitter Conducted Output Power And ERP/EIRP, ( $G_T - L_C$ )=-1.6dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	26.27	24.67	0.2931
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	26.06	24.46	0.2793
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	26.28	24.68	0.2938
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.79	24.19	0.2624
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	26.41	24.81	0.3027
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	25.63	24.03	0.2529
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	26.57	24.97	0.3141
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	26.29	24.69	0.2944
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	26.46	24.86	0.3062
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.18	24.58	0.2871
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	26.59	24.99	0.3155
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	25.65	24.05	0.2541
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.52	24.92	0.3105
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	26.17	24.57	0.2864
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	26.51	24.91	0.3097
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.19	24.59	0.2877
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.59	24.99	0.3155
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	25.28	23.68	0.2333
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.57	24.97	0.3141
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	26.27	24.67	0.2931

77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.6	25	0.3162
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.21	24.61	0.2891
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.57	24.97	0.3141
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.58	23.98	0.2500
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.67	25.07	0.3214
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	26.42	24.82	0.3034
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	26.62	25.02	0.3177
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.27	24.67	0.2931
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	26.57	24.97	0.3141
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	25.5	23.9	0.2455
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.35	24.75	0.2985
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.95	24.35	0.2723
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	26.44	24.84	0.3048
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.13	24.53	0.2838
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.2	24.6	0.2884
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	25.53	23.93	0.2472
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.32	24.72	0.2965
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	26.03	24.43	0.2773
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	26.39	24.79	0.3013
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	26.02	24.42	0.2767
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	26.42	24.82	0.3034
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	25.2	23.6	0.2291
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	26.22	24.62	0.2897
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.84	24.24	0.2655

77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	26.32	24.72	0.2965
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.98	24.38	0.2742
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	26.35	24.75	0.2985
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	25.37	23.77	0.2382
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.15	24.55	0.2851
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.84	24.24	0.2655
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	26.31	24.71	0.2958
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.97	24.37	0.2735
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	26.18	24.58	0.2871
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	25.44	23.84	0.2421
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.18	24.58	0.2871
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.77	24.17	0.2612
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	26.29	24.69	0.2944
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.97	24.37	0.2735
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	26.22	24.62	0.2897
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	25.87	24.27	0.2673
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	26.21	24.61	0.2891
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	26.33	24.73	0.2972
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	26.7	25.1	0.3236
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.41	24.81	0.3027
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	26.38	24.78	0.3006
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.33	24.73	0.2972
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.81	24.21	0.2636
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	25.79	24.19	0.2624

77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	25.92	24.32	0.2704
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	24.71	23.11	0.2046
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	24.63	23.03	0.2009
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	24.89	23.29	0.2133
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	22.72	21.12	0.1294
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	22.49	20.89	0.1227
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	22.72	21.12	0.1294
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.56	22.96	0.1977
77	30	100	650000	3750	CP-OFDM QPSK	1@1	24.49	22.89	0.1945
77	30	100	650000	3750	CP-OFDM QPSK	1@271	24.73	23.13	0.2056
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	26.16	24.56	0.2858
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.23	24.63	0.2904
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	26.12	24.52	0.2831
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	26.15	24.55	0.2851
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	26.27	24.67	0.2931
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	26.2	24.6	0.2884
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	25.72	24.12	0.2582
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.76	24.16	0.2606
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	25.8	24.2	0.2630
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	24.64	23.04	0.2014
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	24.71	23.11	0.2046
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	24.44	22.84	0.1923
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	22.66	21.06	0.1276
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	22.56	20.96	0.1247

77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	22.33	20.73	0.1183
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.61	23.01	0.2000
77	30	100	656000	3840	CP-OFDM QPSK	1@1	24.52	22.92	0.1959
77	30	100	656000	3840	CP-OFDM QPSK	1@271	24.51	22.91	0.1954
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	26.2	24.6	0.2884
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	26.15	24.55	0.2851
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	26.31	24.71	0.2958
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	26.21	24.61	0.2891
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	26.16	24.56	0.2858
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	26.22	24.62	0.2897
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	25.77	24.17	0.2612
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	25.73	24.13	0.2588
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	25.62	24.02	0.2523
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	24.53	22.93	0.1963
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	24.69	23.09	0.2037
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	24.48	22.88	0.1941
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	22.71	21.11	0.1291
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	22.52	20.92	0.1236
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	22.66	21.06	0.1276
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.65	23.05	0.2018
77	30	100	662000	3930	CP-OFDM QPSK	1@1	24.52	22.92	0.1959
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.68	23.08	0.2032

## Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (ppm)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0021	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0060	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0058	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0035	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0038	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0039	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0035	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0059	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0021	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0047	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0039	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0060	PASS	50°C

## Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	50@0	7.4	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM PI/2 BPSK	1@0	8.4	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	50@0	8.49	13	PASS
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@0	7.9	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	7.2	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.03	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.4	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	9.19	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	50@0	7.14	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM PI/2 BPSK	1@0	7.43	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	50@0	8.4	13	PASS
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@0	7.82	13	PASS



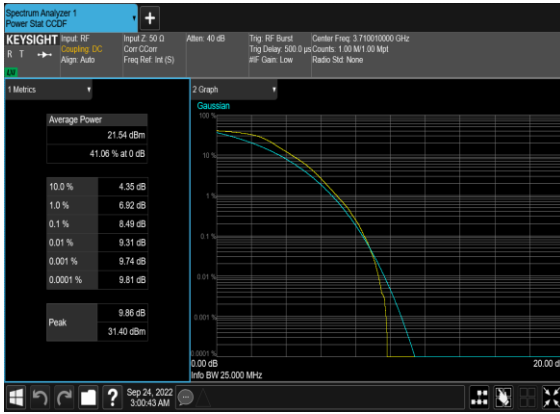
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Low\_CH



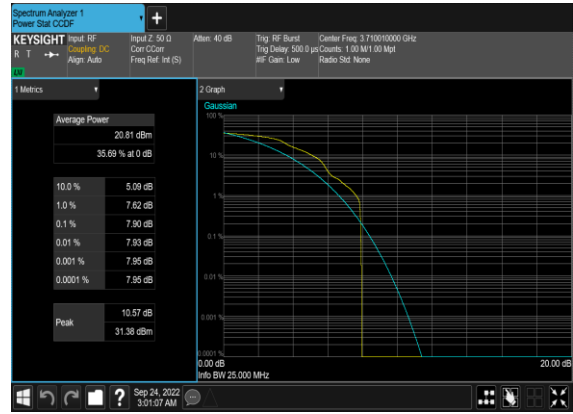
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Low\_CH



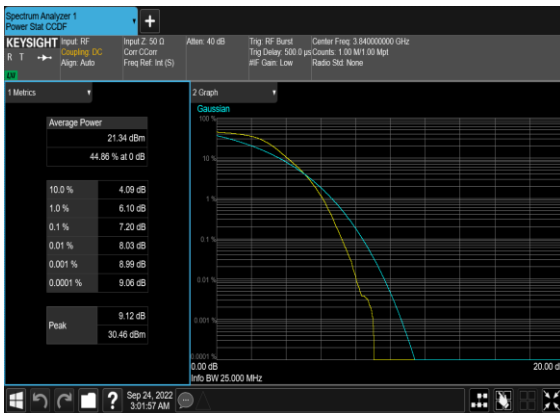
N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



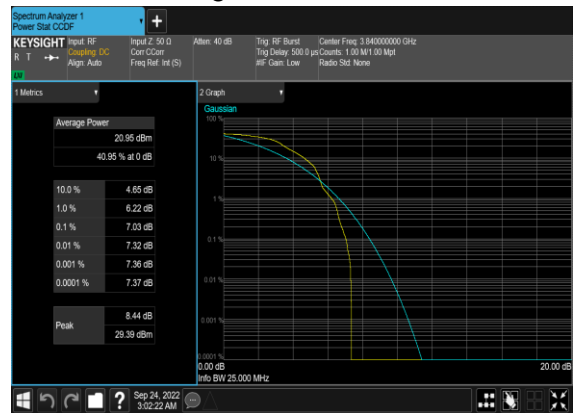
N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



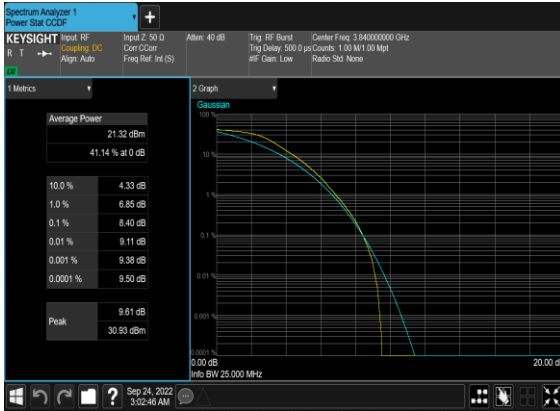
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_Mid\_CH



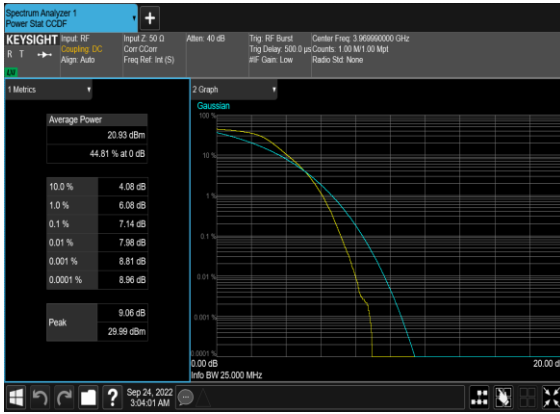
N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_High\_CH



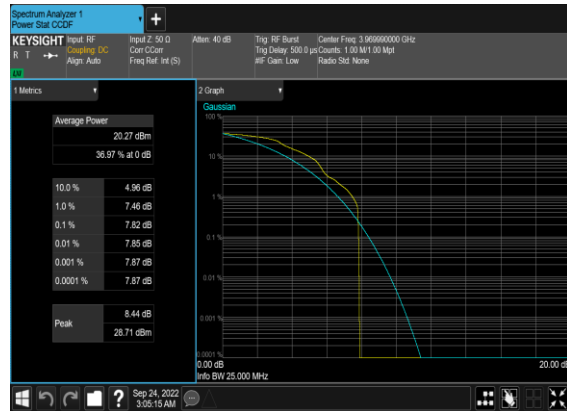
N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Edge\_1RB\_Left\_High\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



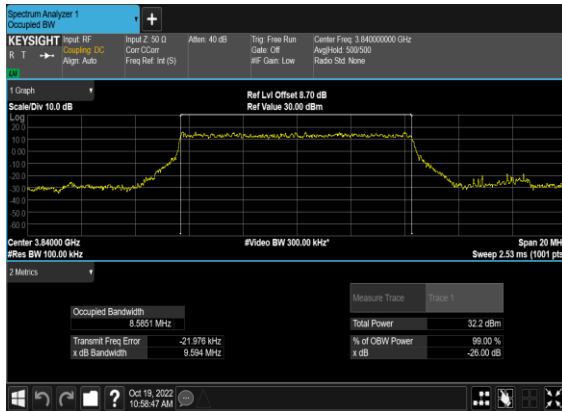
## Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB OBW (MHz)
77	30	10	656000	3840.0	DFT-s-OFDM PI/2 BPSK	24@0	8.5851	9.594
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	24@0	8.5732	9.757
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5863	9.792
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5879	9.787
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5898	9.751
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.569	9.494
77	30	15	656000	3840.0	DFT-s-OFDM PI/2 BPSK	36@0	12.861	13.91
77	30	15	656000	3840.0	DFT-s-OFDM QPSK	36@0	12.842	14.18
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.59	15.06
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.576	15.03
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.583	14.9
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.568	14.86
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	17.804	19.0
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	17.871	19.11
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.217	19.63
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.183	19.78
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.171	19.6
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.196	19.64
77	30	30	656000	3840.0	DFT-s-OFDM PI/2 BPSK	75@0	26.79	28.4
77	30	30	656000	3840.0	DFT-s-OFDM QPSK	75@0	26.755	28.28
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.802	29.55
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.868	29.38
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.82	29.28
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.852	29.44

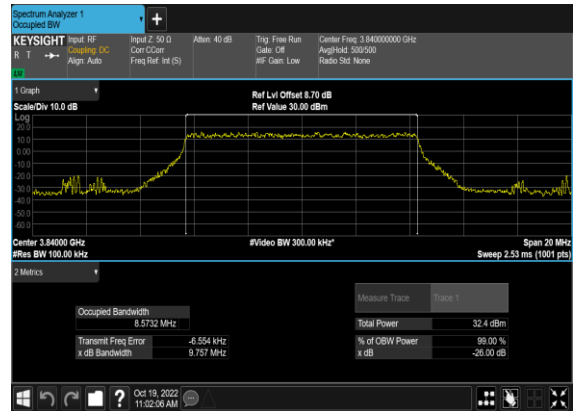
77	30	40	656000	3840.0	DFT-s-OFDM PI/2 BPSK	100@0	35.742	37.49
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	100@0	35.746	37.4
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.828	39.69
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.866	39.64
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.785	39.83
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.804	39.51
77	30	50	656000	3840.0	DFT-s-OFDM PI/2 BPSK	128@0	45.737	47.69
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	128@0	45.728	47.51
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.509	49.68
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.537	49.49
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.483	49.01
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.457	49.6
77	30	60	656000	3840.0	DFT-s-OFDM PI/2 BPSK	162@0	58.067	60.21
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	162@0	57.956	60.16
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.865	60.16
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.864	60.09
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.795	59.89
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.87	60.0
77	30	70	656000	3840.0	DFT-s-OFDM PI/2 BPSK	180@0	64.386	66.48
77	30	70	656000	3840.0	DFT-s-OFDM QPSK	180@0	64.347	66.59
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.592	69.87
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.386	69.89
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.536	69.58
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.437	69.69
77	30	80	656000	3840.0	DFT-s-OFDM PI/2 BPSK	216@0	77.225	80.04
77	30	80	656000	3840.0	DFT-s-OFDM	216@0	77.11	79.84

QPSK								
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.454	80.26
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.624	80.43
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.593	80.16
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.408	80.24
77	30	90	656000	3840.0	DFT-s- OFDM PI/2 BPSK	240@0	85.826	88.73
77	30	90	656000	3840.0	DFT-s- OFDM QPSK	240@0	85.686	88.58
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.659	90.3
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.452	90.57
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.391	90.49
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.7	90.64
77	30	100	656000	3840.0	DFT-s- OFDM PI/2 BPSK	270@0	96.554	99.74
77	30	100	656000	3840.0	DFT-s- OFDM QPSK	270@0	96.413	99.64
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.453	100.8
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.604	100.7
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.497	100.7
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.706	100.6

### N77(10M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



### N77(10M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



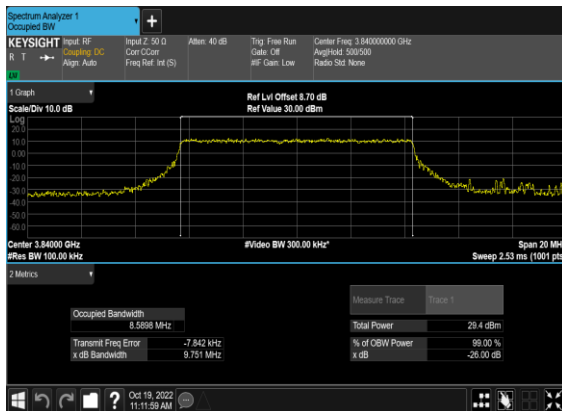
### N77(10M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



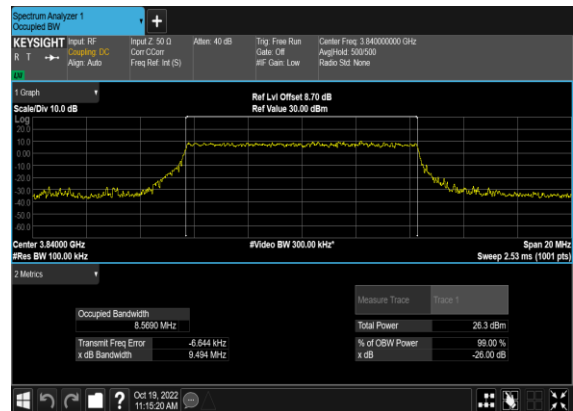
### N77(10M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



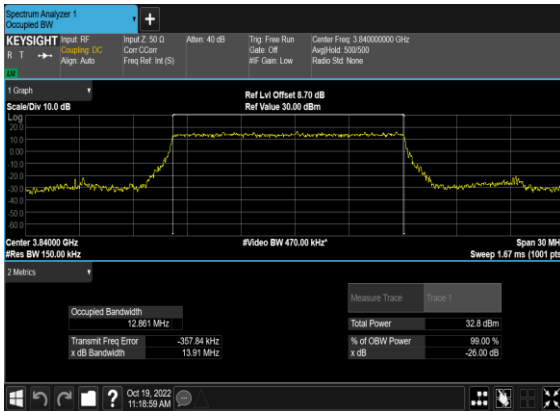
### N77(10M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



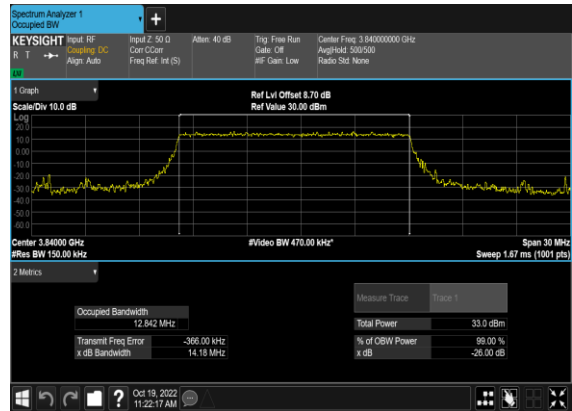
### N77(10M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



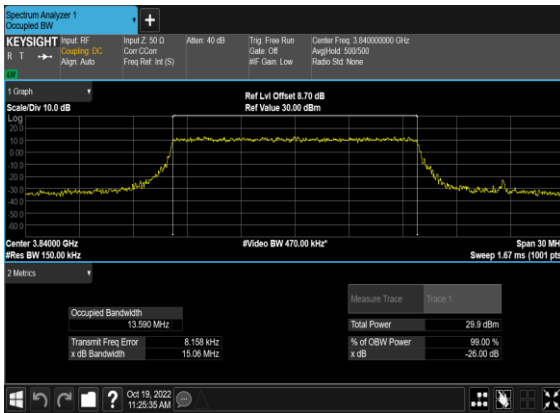
### N77(15M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



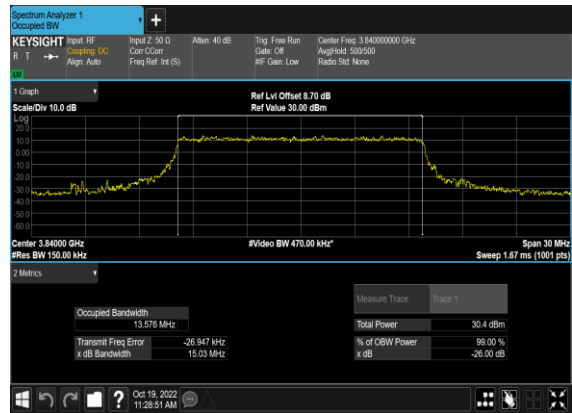
### N77(15M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



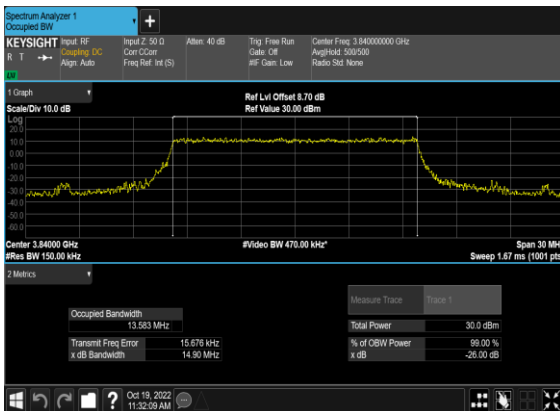
### N77(15M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



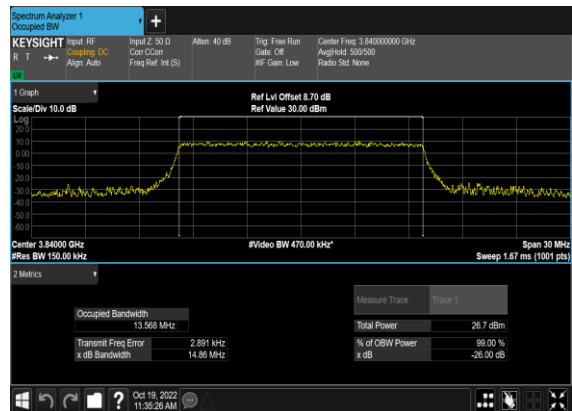
### N77(15M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



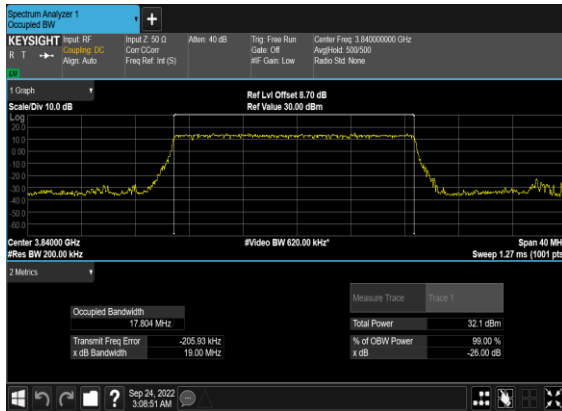
### N77(15M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



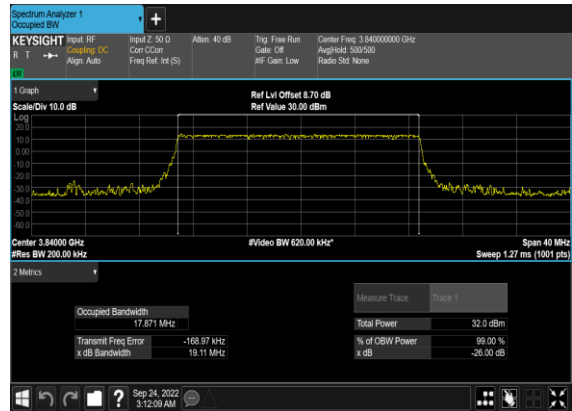
### N77(15M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



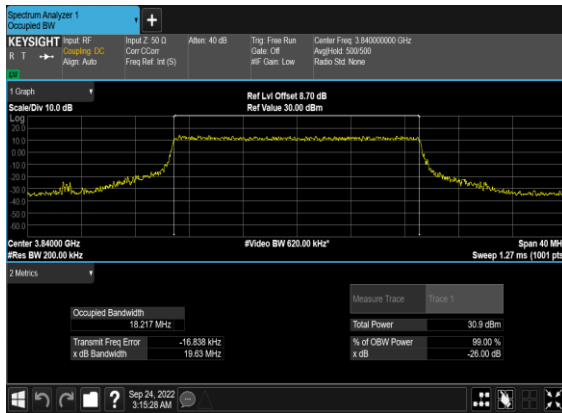
### N77(20M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



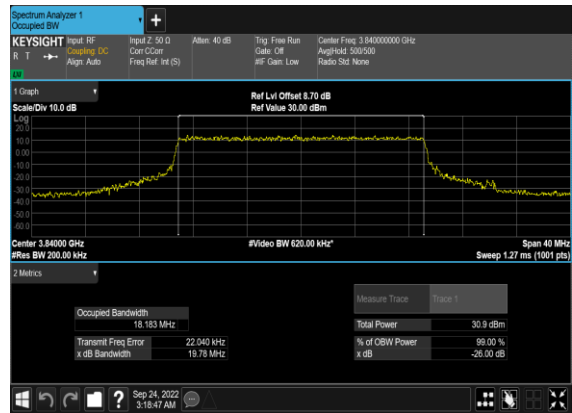
### N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



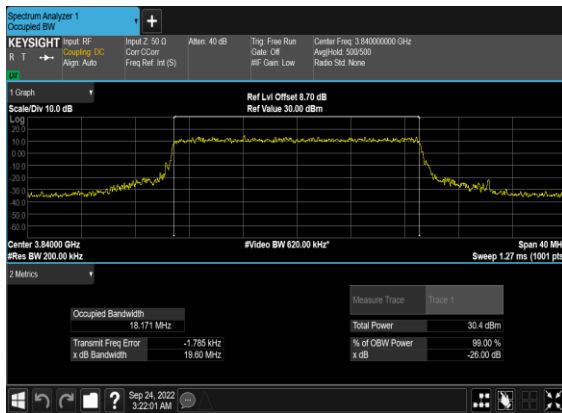
### N77(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



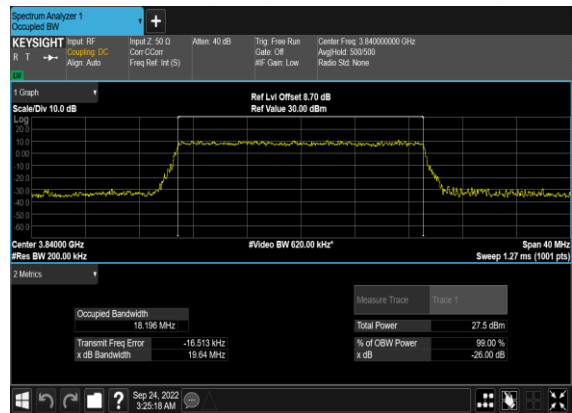
### N77(20M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



### N77(20M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH

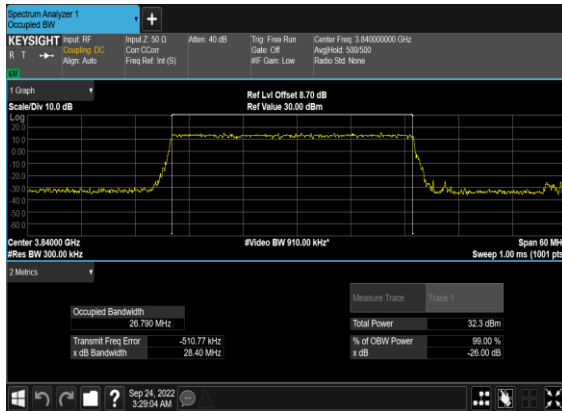


### N77(20M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH

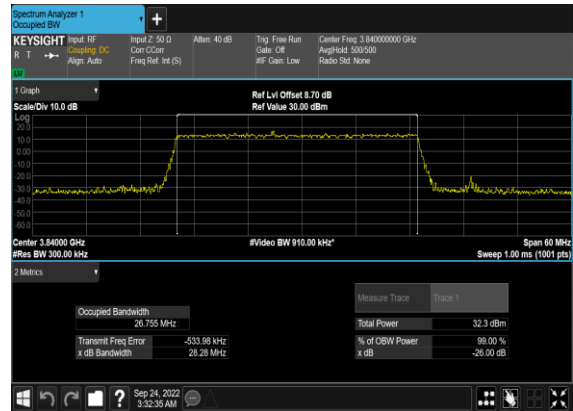




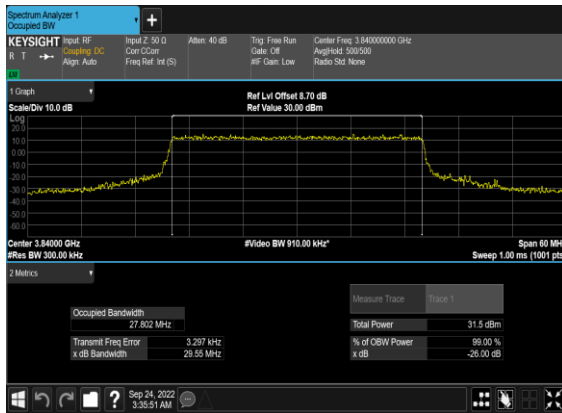
### N77(30M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



### N77(30M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



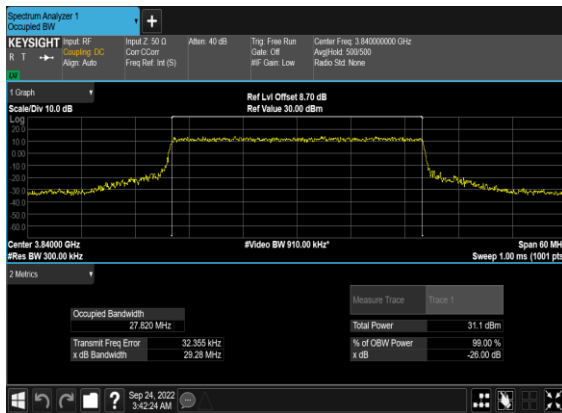
### N77(30M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



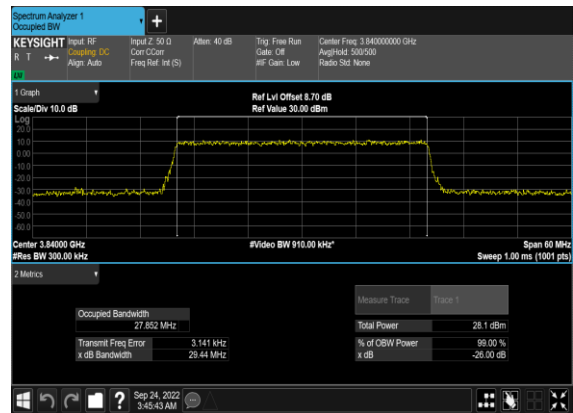
### N77(30M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



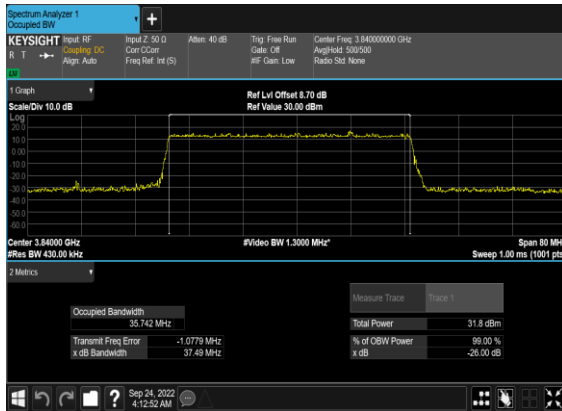
### N77(30M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



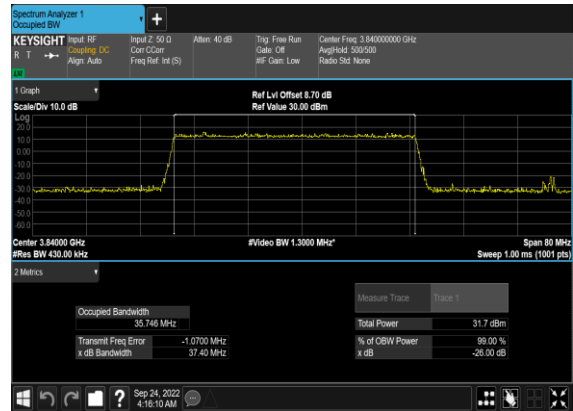
### N77(30M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



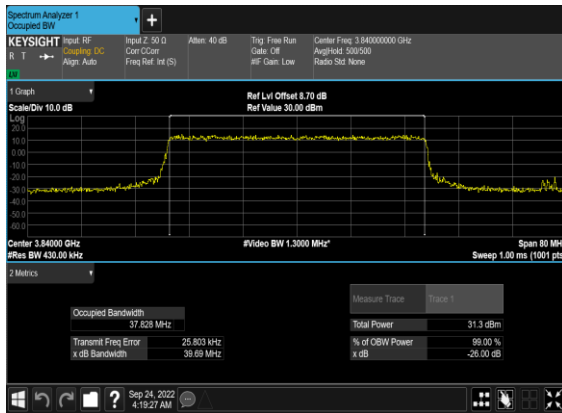
### N77(40M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



### N77(40M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



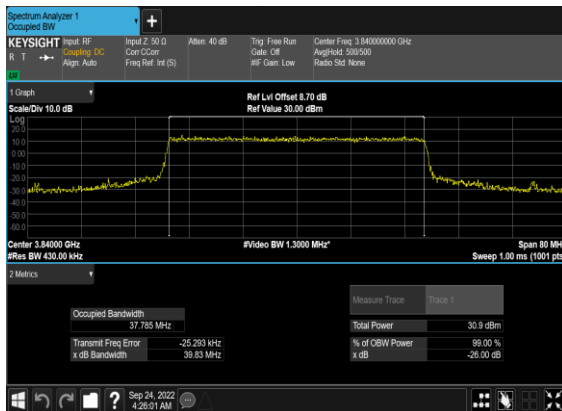
### N77(40M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



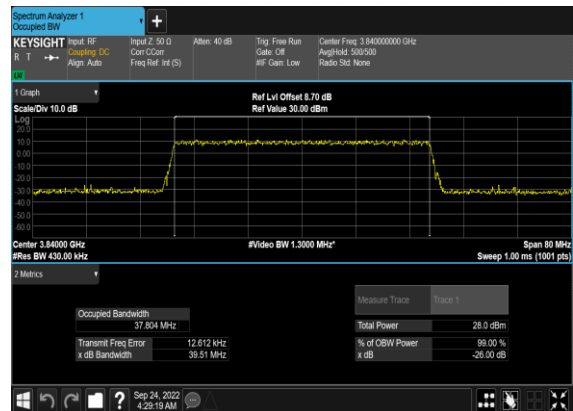
### N77(40M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



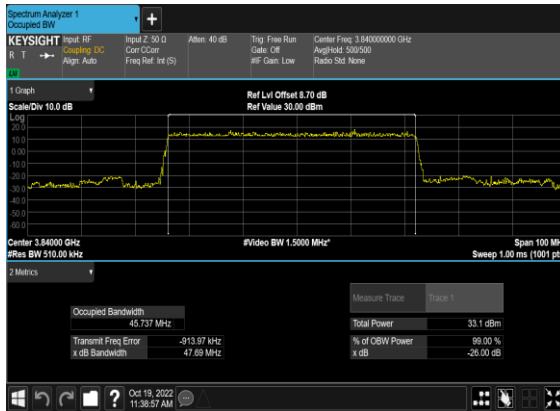
### N77(40M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



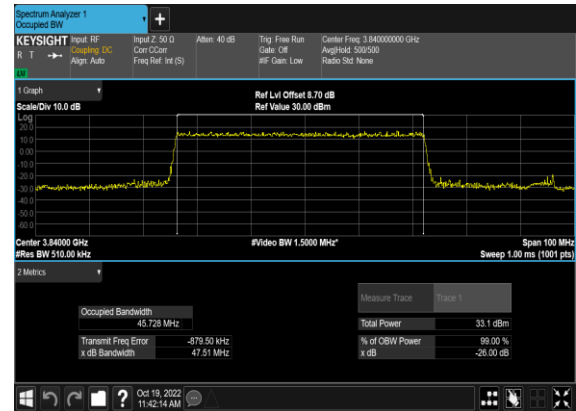
### N77(40M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



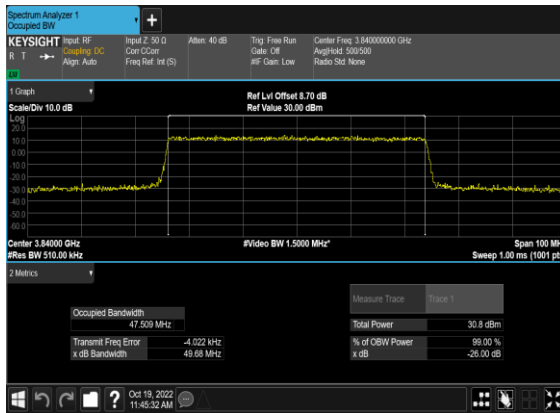
### N77(50M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



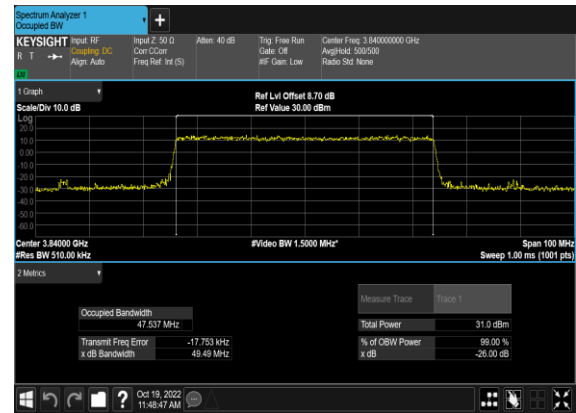
### N77(50M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



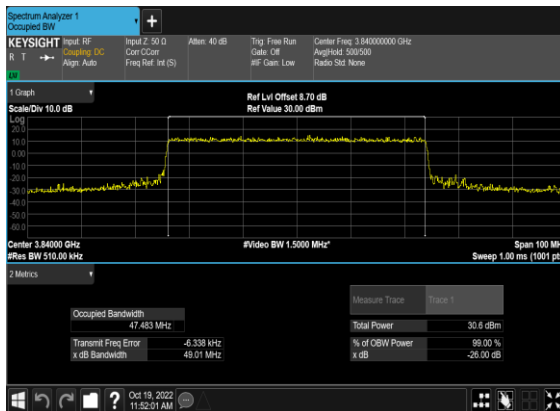
### N77(50M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



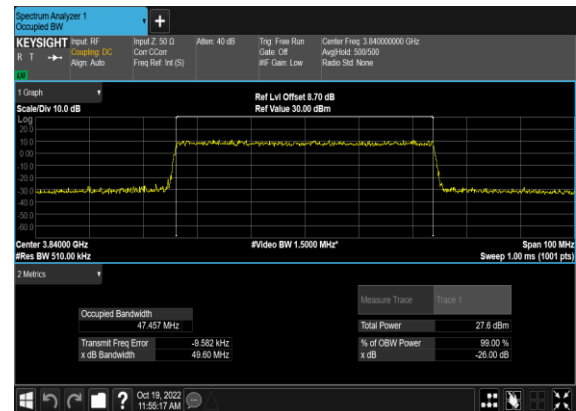
### N77(50M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



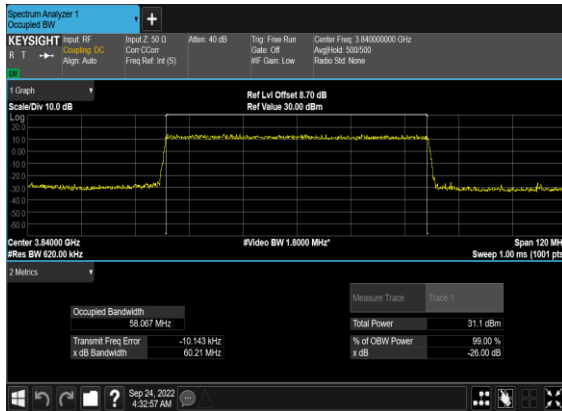
### N77(50M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



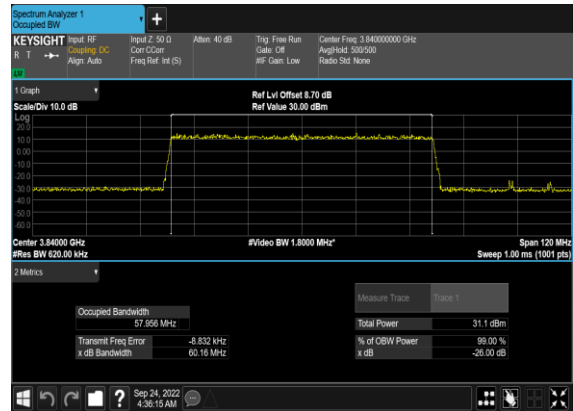
### N77(50M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



### N77(60M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



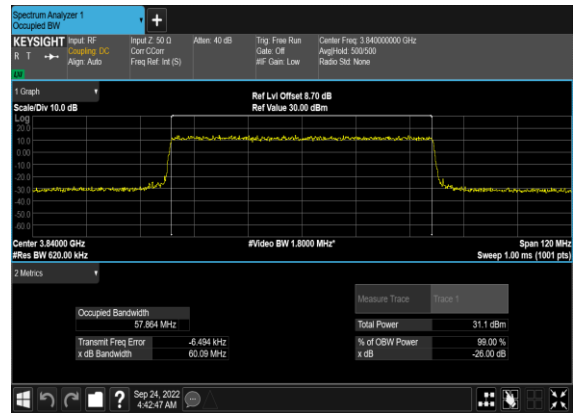
### N77(60M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



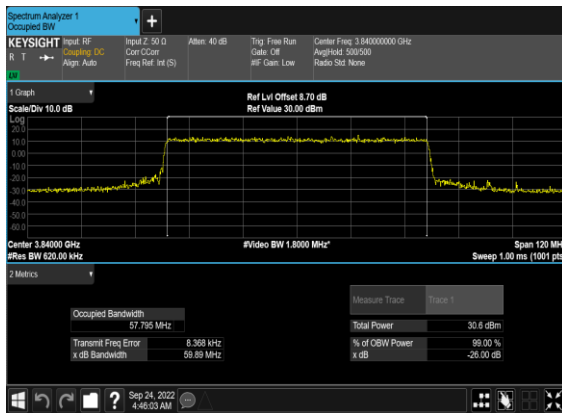
### N77(60M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



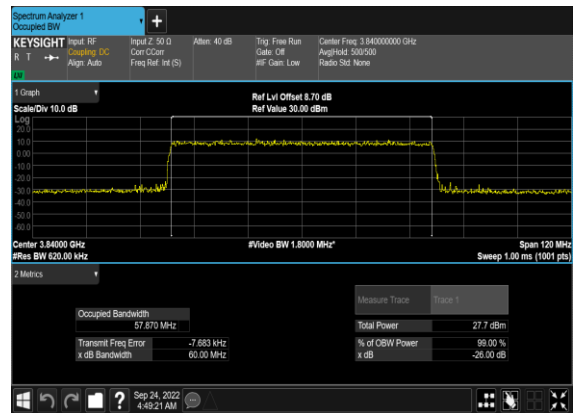
### N77(60M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



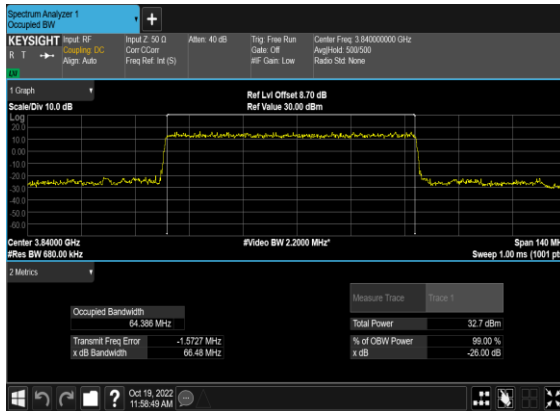
### N77(60M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



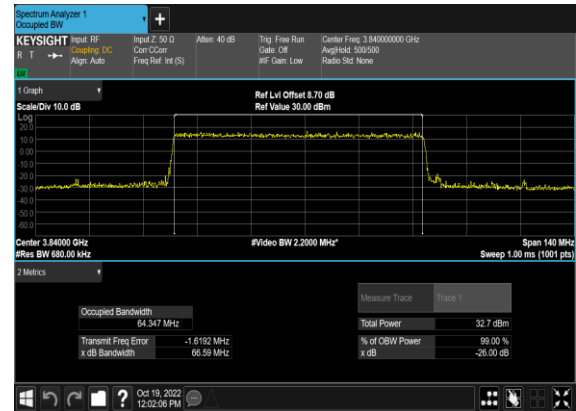
### N77(60M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



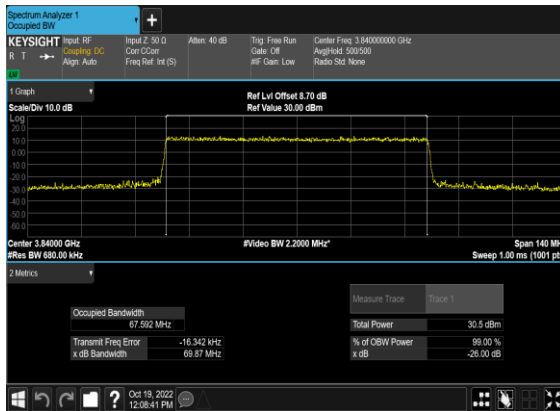
### N77(70M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



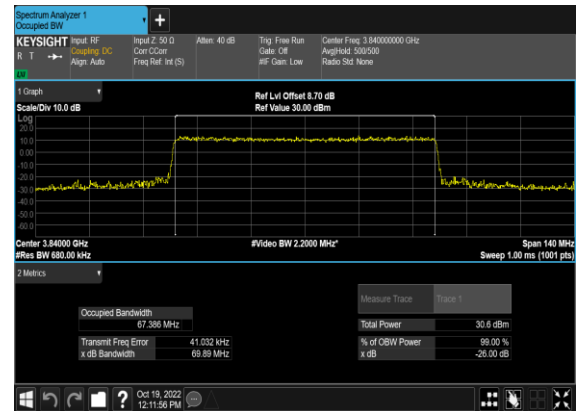
### N77(70M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



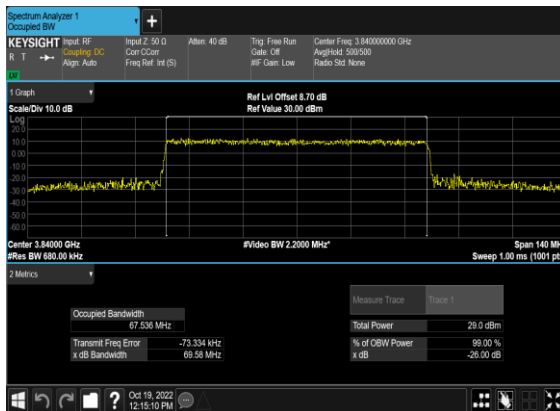
### N77(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



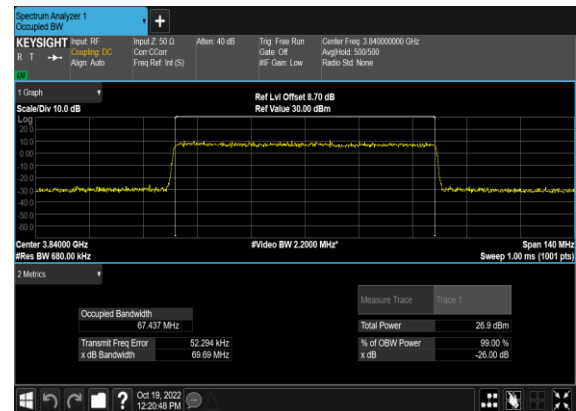
### N77(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



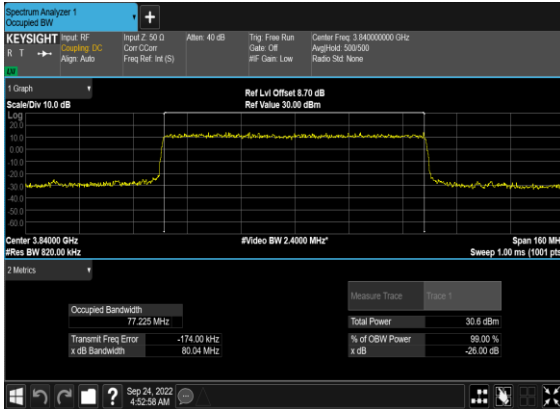
### N77(70M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



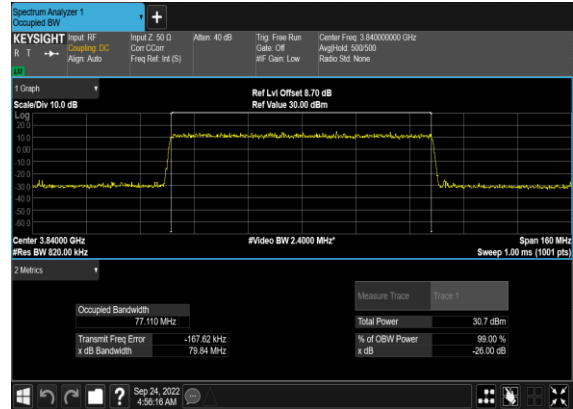
### N77(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



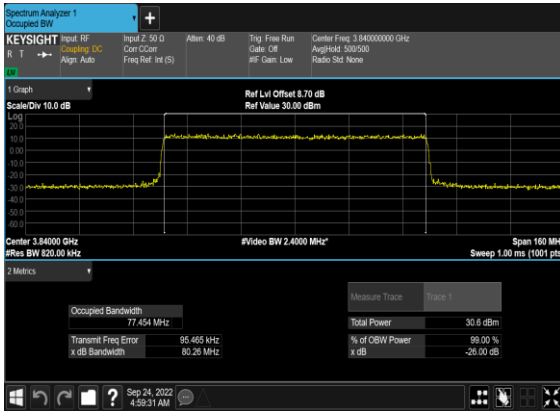
### N77(80M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



### N77(80M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



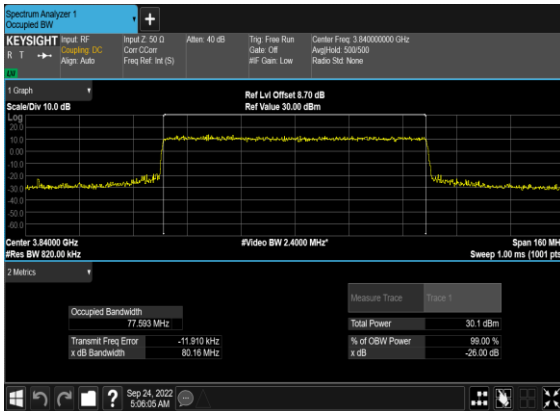
### N77(80M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



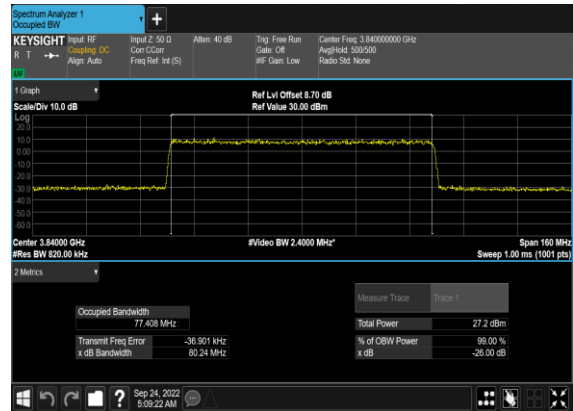
### N77(80M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



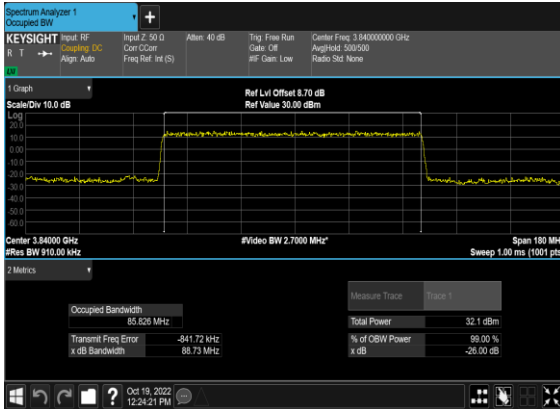
### N77(80M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



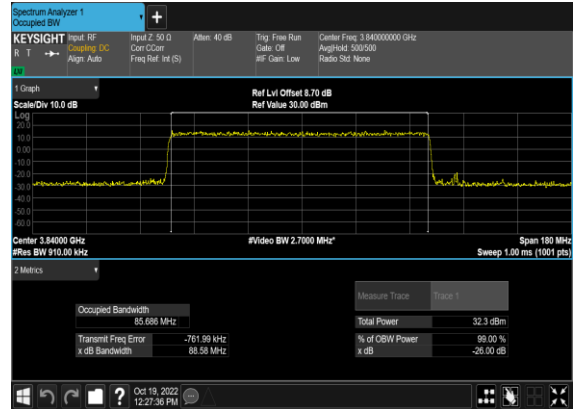
### N77(80M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



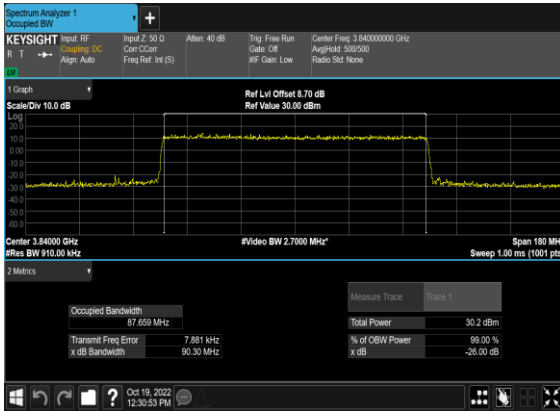
### N77(90M)\_DFT-s-OFDM\_PI\_2-BPSK\_Outer\_Full\_Mid\_CH



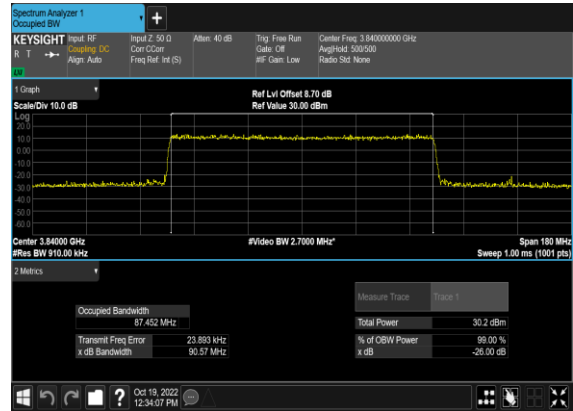
### N77(90M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



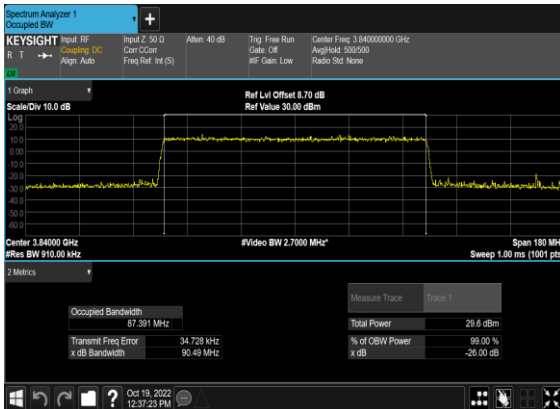
### N77(90M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH



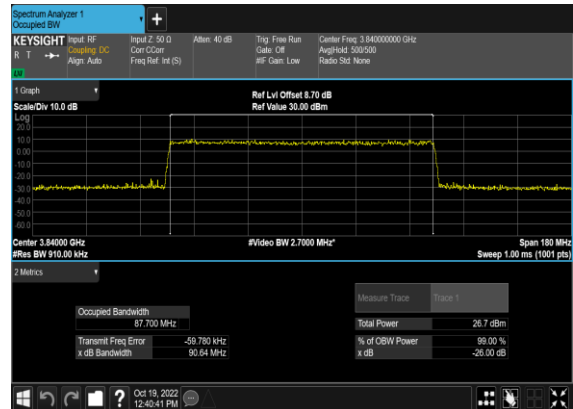
### N77(90M)\_CP-OFDM\_16QAM\_Outer\_Full\_Mid\_CH



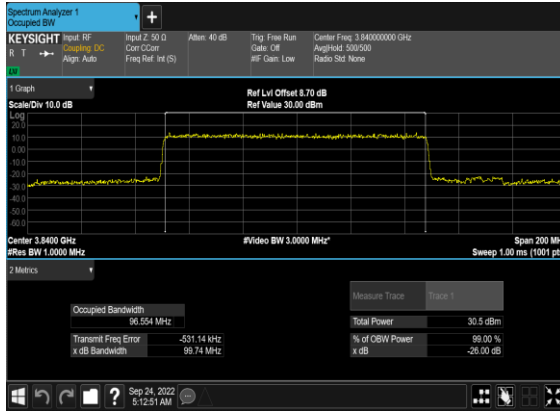
### N77(90M)\_CP-OFDM\_64QAM\_Outer\_Full\_Mid\_CH



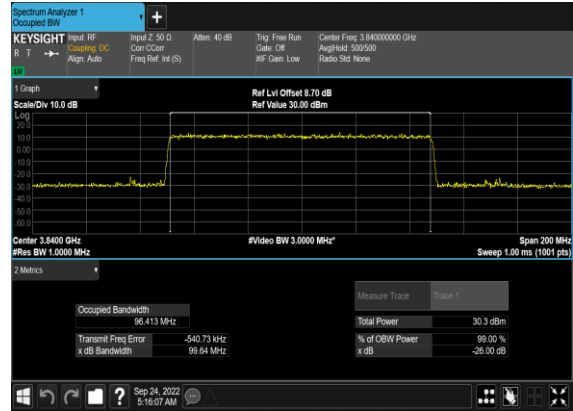
### N77(90M)\_CP-OFDM\_256QAM\_Outer\_Full\_Mid\_CH



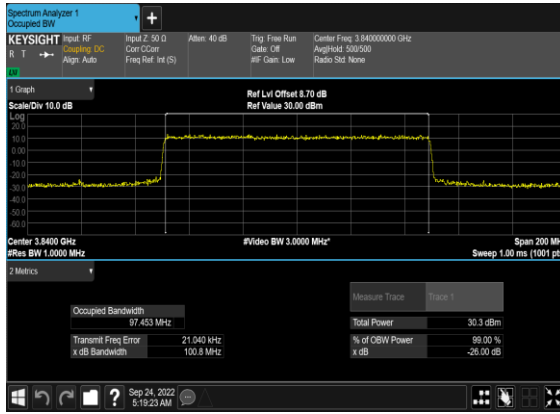
### N77(100M)\_DFT-s-OFDM\_PI\_2- BPSK\_Outer\_Full\_Mid\_CH



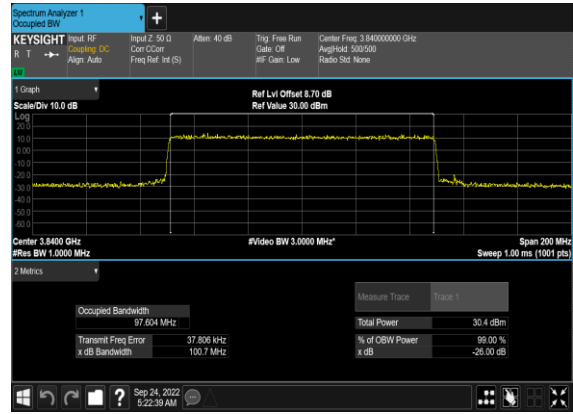
### N77(100M)\_DFT-s- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



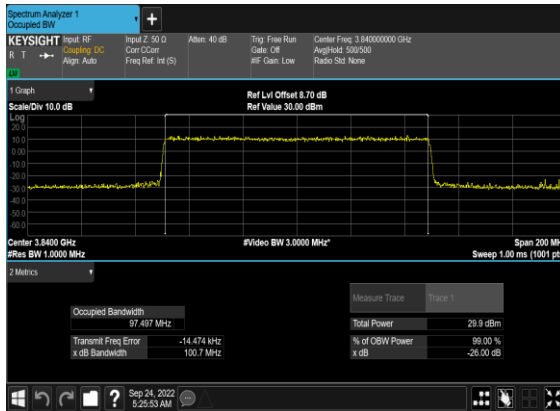
### N77(100M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



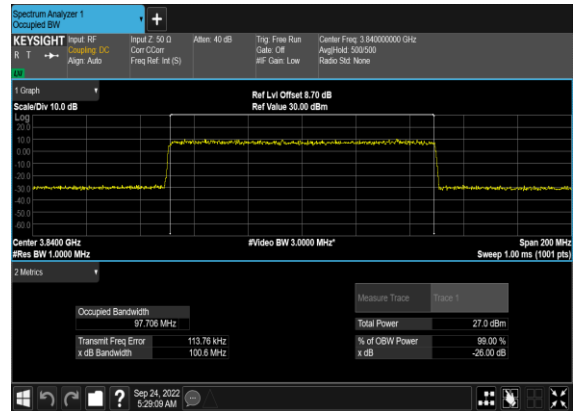
### N77(100M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



### N77(100M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



### N77(100M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH





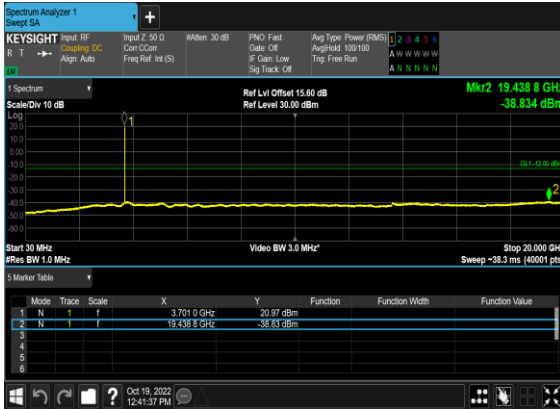
## Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

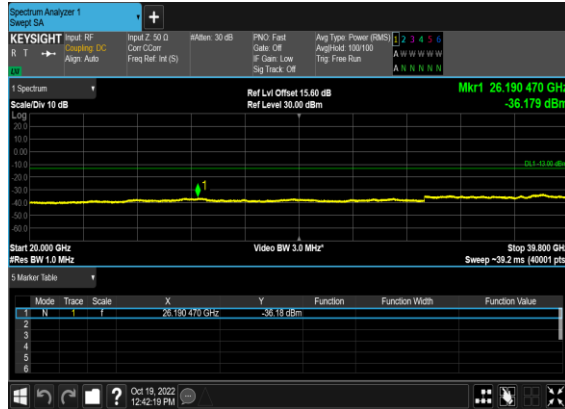
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---

77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	<b>PASS</b>

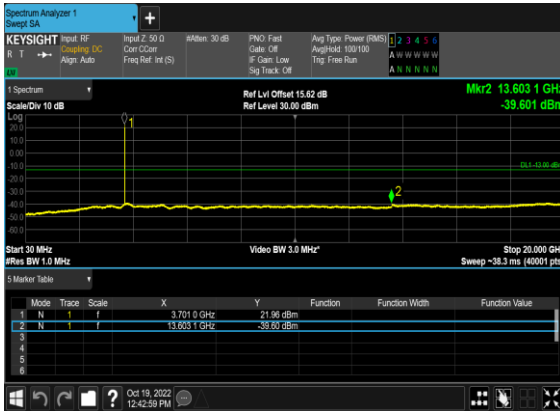
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



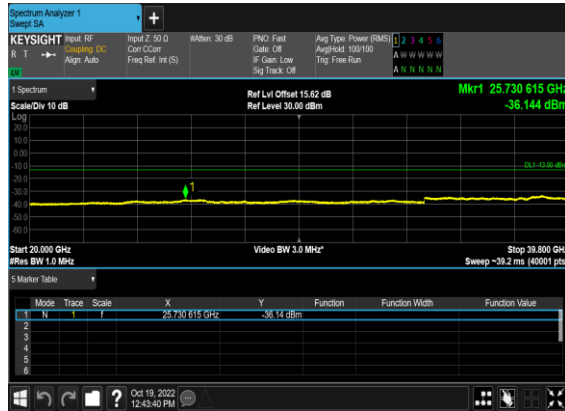
### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



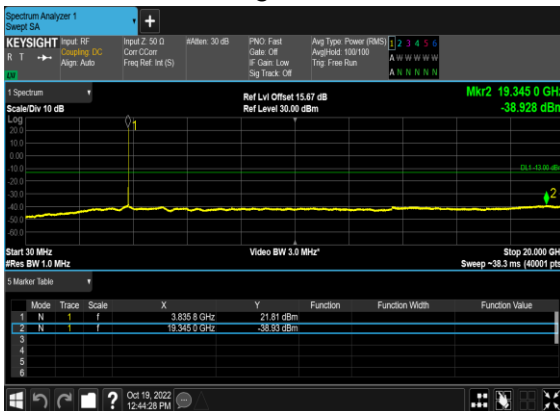
### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



### N77(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH

