



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : 1+,ONEPLUS
MODEL NAME : CPH2583
FCC ID : 2ABZ2-AA550
STANDARD : 47 CFR Part 2, 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Sep. 16, 2023 ~ Sep 28, 2023

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



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG382311L	Rev. 01	Initial issue of report	Oct. 20, 2023



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	§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 Measurement (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	< 43+10log ₁₀ (P[Watts])	PASS	-
3.9	§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 ₁₀ (P[Watts])	PASS	Under limit 14.19 dB at 6916.50 MHz

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	1+,ONEPLUS
Model Name	CPH2583
FCC ID	2ABZ2-AA550
IMEI Code	Conducted : 865154060024816 Radiation : 865154060025854/865154060025847
HW Version	11
SW Version	OxygenOS V14.0
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency	5G NR n77: 3700 MHz ~ 3980 MHz 5G NR n78: 3700 MHz ~ 3800 MHz
SCS	30kHz
Bandwidth	n77: 10 / 15 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz n78: 10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 6> 5G NR n77: -2 dBi 5G NR n78: -2 dBi <Ant. 7> 5G NR n77: -2 dBi 5G NR n78: -2 dBi <Ant. 12> 5G NR n77: -2 dBi 5G NR n78: -2 dBi <Ant. 14> 5G NR n77: -2 dBi 5G NR n78: -2 dBi

Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
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Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77 for Antenna 14 and n78 for Antenna 7 and and n77/n78_UL MIMO for Ant.(6+12).
2. The device supports n77(1T4R) SRS resources on Antenna 6/7/12/14, only the test data of worst Antenna 14 is showed in the report according to the maximum power.
3. 5G NR n77/78 support UL MIMO mode for Ant(6+12)/Ant(14+7), only the worst test data of Ant(6+12) is shown in the report.
4. 5G NR n77/n78 UL_MIMO mode only supports CP-OFDM Modulation, the MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.
5. For UL MIMO mode, the conducted BE/Spurious are tested at single antenna port and add $10 \cdot \log(N_{\text{ANT}})$ according to KDB 662911 D01.
6. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
7. The device supports two PAs for 5G NR n77/n78 (main PA and other PA), the maximum power of main PA is higher than the other PA for n77 and other PA is higher than the main PA for n78, therefore, we chose higher power PA to calculate the EIRP and show in the report.
8. The device supports HPUE mode for 5G NR n77/n78.
9. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
10. 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 and Emission Designator

5G NR n77 SA for SCS 30kHz		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	0.2825	8M57G7D	0.2259	8M58W7D
15	3705.52 ~ 3972.48	0.2704	13M6G7D	0.2228	13M6W7D
20	3710.01 ~ 3969.99	0.2667	18M3G7D	0.2193	18M2W7D
30	3715.02 ~ 3964.98	0.2825	28M0G7D	0.2244	27M9W7D
40	3720.00 ~ 3960.00	0.2710	38M0G7D	0.2163	38M0W7D
50	3725.01 ~ 3954.99	0.2838	47M6G7D	0.2317	47M6W7D
60	3730.02 ~ 3949.98	0.2754	57M9G7D	0.2163	58M0W7D
70	3735.00 ~ 3945.00	0.2838	67M4G7D	0.2296	67M6W7D
80	3740.01 ~ 3939.99	0.2851	77M5G7D	0.2234	77M6W7D
90	3745.02 ~ 3934.98	0.2844	87M5G7D	0.2275	87M7W7D
100	3750.00 ~ 3930.00	0.2944	97M5G7D	0.2355	97M5W7D

5G NR n78 SA for SCS 30kHz		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	0.2891	8M57G7D	0.2307	8M58W7D
20	3710.01 ~ 3789.99	0.2831	18M3G7D	0.2259	18M2W7D
30	3715.02 ~ 3784.98	0.2786	28M0G7D	0.2203	27M9W7D
40	3720.00 ~ 3780.00	0.2679	38M0G7D	0.2163	38M0W7D
50	3725.01 ~ 3774.99	0.2729	47M6G7D	0.2203	47M6W7D
60	3730.02 ~ 3769.98	0.2576	57M9G7D	0.2075	58M0W7D
70	3735.00 ~ 3765.00	0.2838	67M4G7D	0.2291	67M6W7D
80	3740.01 ~ 3759.99	0.2716	77M5G7D	0.2203	77M6W7D
90	3745.02 ~ 3754.98	0.2729	87M5G7D	0.2213	87M7W7D
100	3750.00 ~ 3750.00	0.2911	97M5G7D	0.2366	97M5W7D



5G NR n77 UL MIMO for SCS 30kHz		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	0.1698	8M57G7D	0.1459	8M60W7D
15	3705.52 ~ 3972.48	0.1730	13M6G7D	0.1469	13M6W7D
20	3710.01 ~ 3969.99	0.1671	18M2G7D	0.1429	18M2W7D
30	3715.02 ~ 3964.98	0.1750	27M9G7D	0.1496	27M9W7D
40	3720.00 ~ 3960.00	0.1698	37M9G7D	0.1449	38M0W7D
50	3725.01 ~ 3954.99	0.1778	47M4G7D	0.1535	47M6W7D
60	3730.02 ~ 3949.98	0.1683	57M9G7D	0.1469	57M9W7D
70	3735.00 ~ 3945.00	0.1746	67M6G7D	0.1489	67M7W7D
80	3740.01 ~ 3939.99	0.1750	77M5G7D	0.1486	77M6W7D
90	3745.02 ~ 3934.98	0.1799	87M5G7D	0.1791	87M6W7D
100	3750.00 ~ 3930.00	0.1845	97M7G7D	0.1563	97M7W7D

5G NR n78 UL MIMO for SCS 30kHz		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	0.1690	8M57G7D	0.1445	8M60W7D
20	3710.01 ~ 3789.99	0.1633	18M2G7D	0.1390	18M2W7D
30	3715.02 ~ 3784.98	0.1679	27M9G7D	0.1419	27M9W7D
40	3720.00 ~ 3780.00	0.1629	37M9G7D	0.1413	38M0W7D
50	3725.01 ~ 3774.99	0.1690	47M4G7D	0.1462	47M6W7D
60	3730.02 ~ 3769.98	0.1622	57M9G7D	0.1429	57M9W7D
70	3735.00 ~ 3765.00	0.1698	67M6G7D	0.1445	67M7W7D
80	3740.01 ~ 3759.99	0.1702	77M5G7D	0.1459	77M6W7D
90	3745.02 ~ 3754.98	0.1722	87M5G7D	0.1507	87M6W7D
100	3750.00 ~ 3750.00	0.1770	97M7G7D	0.1528	97M7W7D

Note:

1. 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.
2. All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

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.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	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		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-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, 27
- ♦ 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.

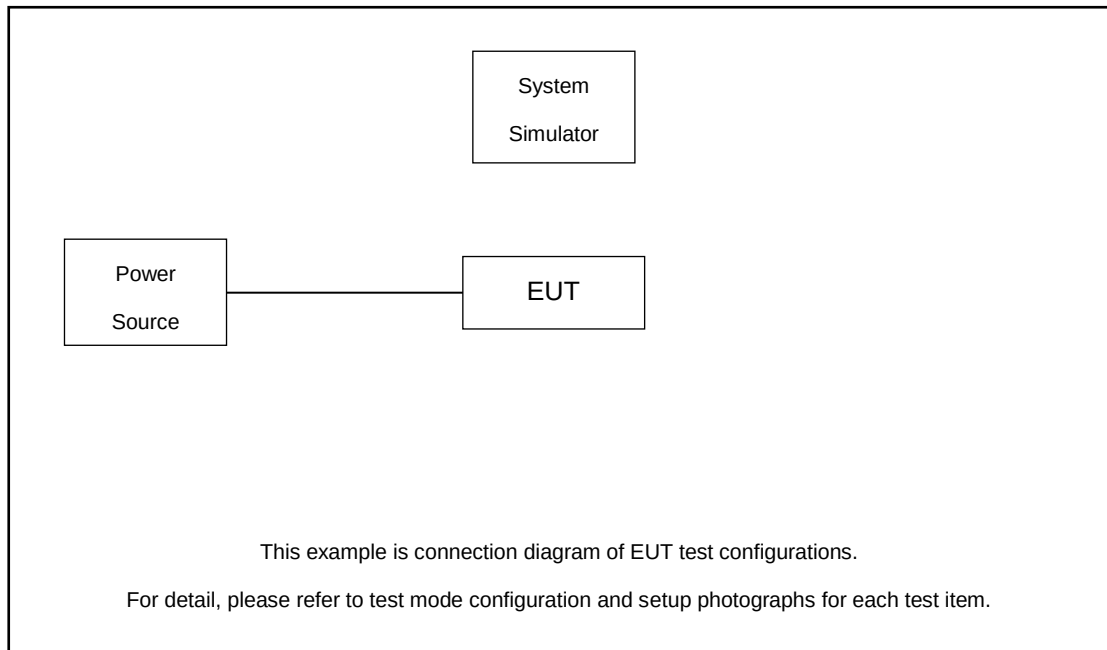
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

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	16QAM	64QAM	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	v	v	
	n78	v	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
Peak-to-Average Ratio	n77			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			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.I.R.P	n77	v	v	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	v	
Radiated Spurious Emission	n77	Worst Case																			v	v	v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 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. 4. Frequency Stability : Normal Voltage = 7.82V; Low Voltage =6.8V; High Voltage =9.0V.																							

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 8.9 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 8.9 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G n77 (30kHz) 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(30kHz) 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
10	Channel	647000	650000	653000
	Frequency	3705	3750	3795

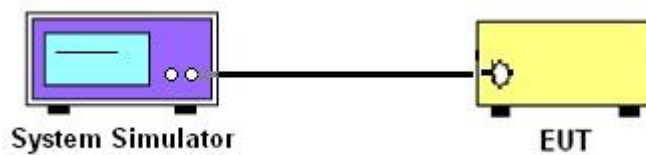
3 Conducted Test Items

3.1 Measuring Instruments

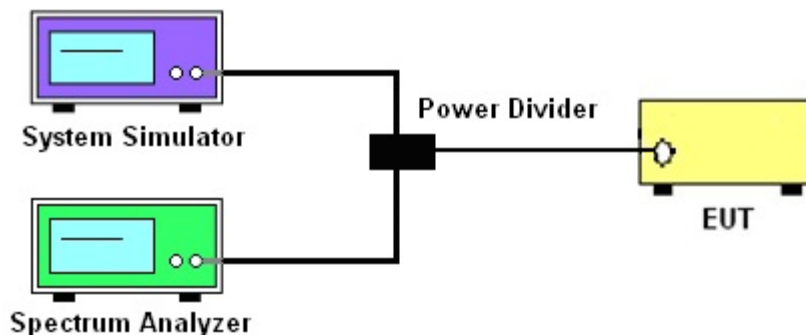
See list of measuring instruments of this test report.

3.2 Test Setup

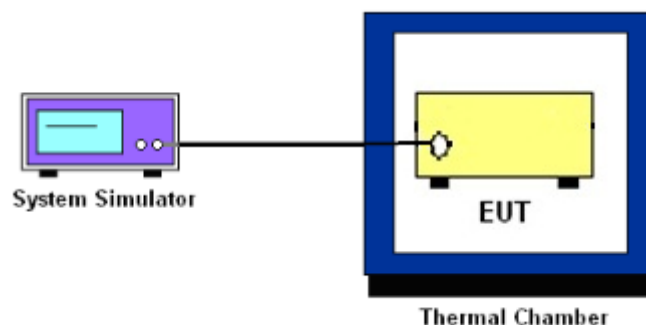
3.2.1 Conducted Output Power



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. Checked that all the results comply with the emission limit line.

Example:

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. 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 10th 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. 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)
 $= -13$ dBm.

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°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°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.

3.9.3 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.

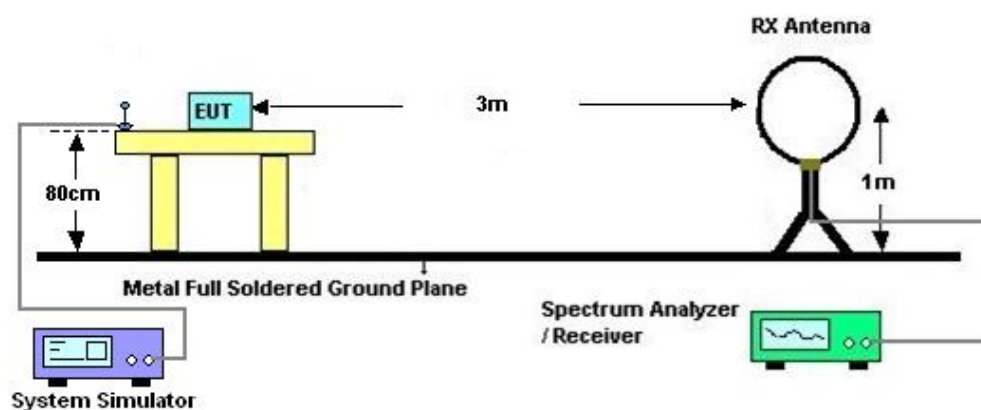
4 Radiated Test Items

4.1 Measuring Instruments

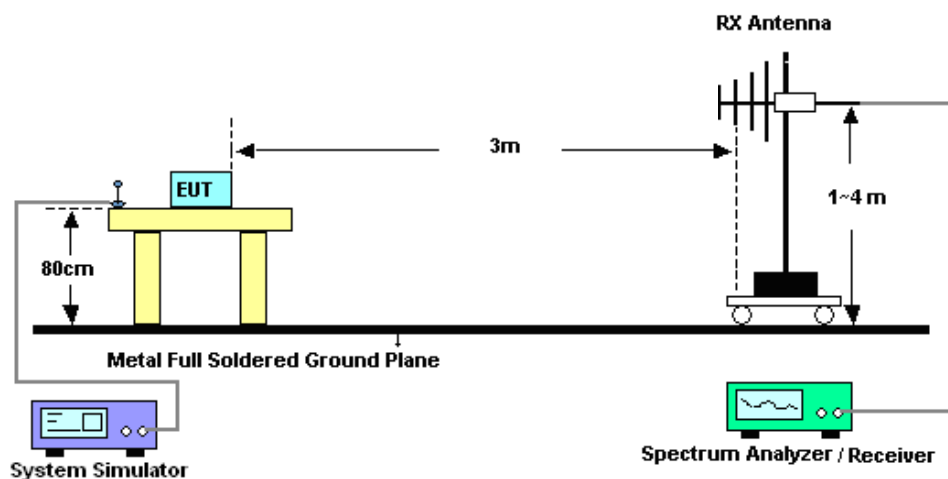
See list of measuring instruments of this test report.

4.2 Test Setup

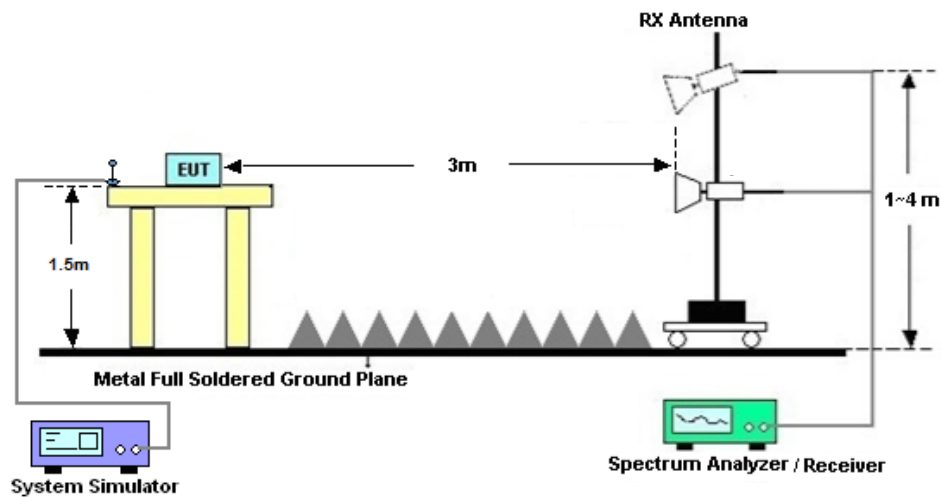
4.2.1 For radiated test below 30MHz



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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Sep. 16, 2023~ Sep. 28, 2023	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 17, 2022	Sep. 16, 2023~ Sep. 28, 2023	Oct. 16, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2022	Sep. 16, 2023~ Sep. 28, 2023	Dec. 24, 2023	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Sep. 16, 2023~ Sep. 28, 2023	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 26, 2022	Sep. 19, 2023	Dec. 25, 2023	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Sep. 19, 2023	Jul. 27, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 19, 2022	Sep. 19, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Sep. 19, 2023	Sep. 27, 2023	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Sep. 19, 2023	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz-40GHz	Apr. 08, 2023	Sep. 19, 2023	Apr. 07, 2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Sep. 19, 2023	Apr. 03, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Sep. 19, 2023	Oct. 18, 2023	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Sep. 19, 2023	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Nov. 10, 2022	Sep. 19, 2023	Nov. 09, 2023	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Sep. 19, 2023	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Sep. 19, 2023	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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% ($U = 2U_c(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.02dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

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

FR1 N77(ANT14)

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=-2dB

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP (dBm)	EIRP (W)
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@1	26.01	24.01	0.2518
77	30	10	647000	3705.0	DFT-s-OFDM 16 QAM	1@1	25.2	23.2	0.2089
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
77	30	10	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.38	23.38	0.2178
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@1	26.51	24.51	0.2825
77	30	10	665000	3975.0	DFT-s-OFDM 16 QAM	1@1	25.54	23.54	0.2259
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.99	23.99	0.2506
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.14	23.14	0.2061
77	30	15	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.32	24.32	0.2704
77	30	15	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.48	23.48	0.2228
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	25.26	23.26	0.2118
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	25.89	23.89	0.2449
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25.03	23.03	0.2009
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.26	24.26	0.2667
77	30	20	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.39	23.39	0.2183
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	26.24	24.24	0.2655
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	25.41	23.41	0.2193
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.04	24.04	0.2535
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.09	23.09	0.2037
77	30	30	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.51	24.51	0.2825
77	30	30	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.51	23.51	0.2244

77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	26.3	24.3	0.2692
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	25.36	23.36	0.2168
77	30	40	648000	3720.0	DFT-s-OFDM QPSK	1@1	25.92	23.92	0.2466
77	30	40	648000	3720.0	DFT-s-OFDM 16 QAM	1@1	24.99	22.99	0.1991
77	30	40	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.33	24.33	0.2710
77	30	40	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.35	23.35	0.2163
77	30	40	664000	3960.0	DFT-s-OFDM QPSK	1@1	26.23	24.23	0.2649
77	30	40	664000	3960.0	DFT-s-OFDM 16 QAM	1@1	25.21	23.21	0.2094
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.09	24.09	0.2564
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.53	24.53	0.2838
77	30	50	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.65	23.65	0.2317
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	26.23	24.23	0.2649
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	25.32	23.32	0.2148
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	25.89	23.89	0.2449
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.03	23.03	0.2009
77	30	60	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.4	24.4	0.2754
77	30	60	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.35	23.35	0.2163
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	26.17	24.17	0.2612
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	25.24	23.24	0.2109
77	30	70	649000	3735.0	DFT-s-OFDM QPSK	1@1	26.21	24.21	0.2636
77	30	70	649000	3735.0	DFT-s-OFDM 16 QAM	1@1	25.25	23.25	0.2113
77	30	70	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.53	24.53	0.2838
77	30	70	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.61	23.61	0.2296
77	30	70	663000	3945.0	DFT-s-OFDM QPSK	1@1	26.31	24.31	0.2698
77	30	70	663000	3945.0	DFT-s-OFDM 16 QAM	1@1	25.42	23.42	0.2198
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26	24	0.2512

77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.15	23.15	0.2065
77	30	80	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.55	24.55	0.2851
77	30	80	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.49	23.49	0.2234
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	26.32	24.32	0.2704
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	25.38	23.38	0.2178
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.1	24.1	0.2570
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.18	23.18	0.2080
77	30	90	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.54	24.54	0.2844
77	30	90	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.57	23.57	0.2275
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	26.37	24.37	0.2735
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	25.34	23.34	0.2158
77	30	100	650000	3750.0	DFT-s-OFDM PI/2 BPSK	135@67	26.13	24.13	0.2588
77	30	100	650000	3750.0	DFT-s-OFDM PI/2 BPSK	1@1	26.16	24.16	0.2606
77	30	100	650000	3750.0	DFT-s-OFDM PI/2 BPSK	1@271	26.58	24.58	0.2871
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	135@67	26.11	24.11	0.2576
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@1	26.26	24.26	0.2667
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@271	26.48	24.48	0.2805
77	30	100	650000	3750.0	DFT-s-OFDM 16 QAM	135@67	25.08	23.08	0.2032
77	30	100	650000	3750.0	DFT-s-OFDM 16 QAM	1@1	25.21	23.21	0.2094
77	30	100	650000	3750.0	DFT-s-OFDM 16 QAM	1@271	25.55	23.55	0.2265
77	30	100	650000	3750.0	DFT-s-OFDM 64 QAM	135@67	23.6	21.6	0.1445
77	30	100	650000	3750.0	DFT-s-OFDM 64 QAM	1@1	23.58	21.58	0.1439
77	30	100	650000	3750.0	DFT-s-OFDM 64 QAM	1@271	23.95	21.95	0.1567
77	30	100	650000	3750.0	DFT-s-OFDM 256 QAM	135@67	21.65	19.65	0.0923
77	30	100	650000	3750.0	DFT-s-OFDM 256 QAM	1@1	21.5	19.5	0.0891
77	30	100	650000	3750.0	DFT-s-OFDM 256 QAM	1@271	21.73	19.73	0.0940
77	30	100	650000	3750.0	CP-OFDM QPSK	137@68	24.46	22.46	0.1762

77	30	100	650000	3750.0	CP-OFDM QPSK	1@1	24.66	22.66	0.1845
77	30	100	650000	3750.0	CP-OFDM QPSK	1@271	24.98	22.98	0.1986
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	135@67	26.25	24.25	0.2661
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@1	26.56	24.56	0.2858
77	30	100	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@271	26.15	24.15	0.2600
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	135@67	26.25	24.25	0.2661
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@1	26.6	24.6	0.2884
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@271	26.12	24.12	0.2582
77	30	100	656000	3840.0	DFT-s-OFDM 16 QAM	135@67	25.23	23.23	0.2104
77	30	100	656000	3840.0	DFT-s-OFDM 16 QAM	1@1	25.57	23.57	0.2275
77	30	100	656000	3840.0	DFT-s-OFDM 16 QAM	1@271	25.12	23.12	0.2051
77	30	100	656000	3840.0	DFT-s-OFDM 64 QAM	135@67	23.79	21.79	0.1510
77	30	100	656000	3840.0	DFT-s-OFDM 64 QAM	1@1	23.98	21.98	0.1578
77	30	100	656000	3840.0	DFT-s-OFDM 64 QAM	1@271	23.54	21.54	0.1426
77	30	100	656000	3840.0	DFT-s-OFDM 256 QAM	135@67	21.79	19.79	0.0953
77	30	100	656000	3840.0	DFT-s-OFDM 256 QAM	1@1	21.82	19.82	0.0959
77	30	100	656000	3840.0	DFT-s-OFDM 256 QAM	1@271	21.43	19.43	0.0877
77	30	100	656000	3840.0	CP-OFDM QPSK	137@68	24.67	22.67	0.1849
77	30	100	656000	3840.0	CP-OFDM QPSK	1@1	25.1	23.1	0.2042
77	30	100	656000	3840.0	CP-OFDM QPSK	1@271	24.67	22.67	0.1849
77	30	100	662000	3930.0	DFT-s-OFDM PI/2 BPSK	135@67	26.36	24.36	0.2729
77	30	100	662000	3930.0	DFT-s-OFDM PI/2 BPSK	1@1	26.55	24.55	0.2851
77	30	100	662000	3930.0	DFT-s-OFDM PI/2 BPSK	1@271	26.64	24.64	0.2911
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	135@67	26.27	24.27	0.2673
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@1	26.54	24.54	0.2844
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@271	26.69	24.69	0.2944
77	30	100	662000	3930.0	DFT-s-OFDM 16 QAM	135@67	25.19	23.19	0.2084

77	30	100	662000	3930.0	DFT-s-OFDM 16 QAM	1@1	25.68	23.68	0.2333
77	30	100	662000	3930.0	DFT-s-OFDM 16 QAM	1@271	25.72	23.72	0.2355
77	30	100	662000	3930.0	DFT-s-OFDM 64 QAM	135@67	23.75	21.75	0.1496
77	30	100	662000	3930.0	DFT-s-OFDM 64 QAM	1@1	23.9	21.9	0.1549
77	30	100	662000	3930.0	DFT-s-OFDM 64 QAM	1@271	24.02	22.02	0.1592
77	30	100	662000	3930.0	DFT-s-OFDM 256 QAM	135@67	21.76	19.76	0.0946
77	30	100	662000	3930.0	DFT-s-OFDM 256 QAM	1@1	21.78	19.78	0.0951
77	30	100	662000	3930.0	DFT-s-OFDM 256 QAM	1@271	21.91	19.91	0.0979
77	30	100	662000	3930.0	CP-OFDM QPSK	137@68	24.59	22.59	0.1816
77	30	100	662000	3930.0	CP-OFDM QPSK	1@1	25.21	23.21	0.2094
77	30	100	662000	3930.0	CP-OFDM QPSK	1@271	25.29	23.29	0.2133

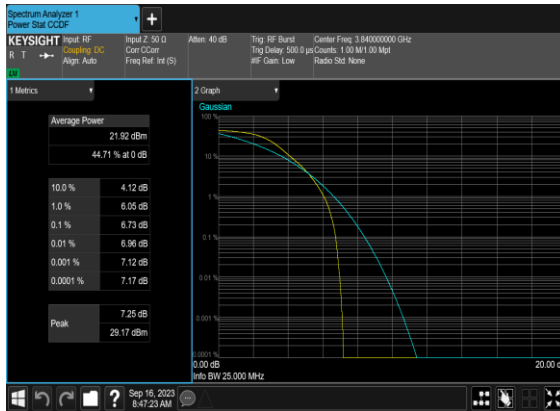
Frequency Stability

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	0.0044	PASS	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0058	PASS	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0034	PASS	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0038	PASS	-30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0054	PASS	-20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0044	PASS	-10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0067	PASS	0°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0023	PASS	10°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0044	PASS	20°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0028	PASS	30°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0040	PASS	40°C
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	0.0033	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	656000	3840.0	DFT-s-OFDM PI/2 BPSK	50@0	6.73	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM PI/2 BPSK	1@0	7.31	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	7.36	13	PASS
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	1@0	8.41	13	PASS

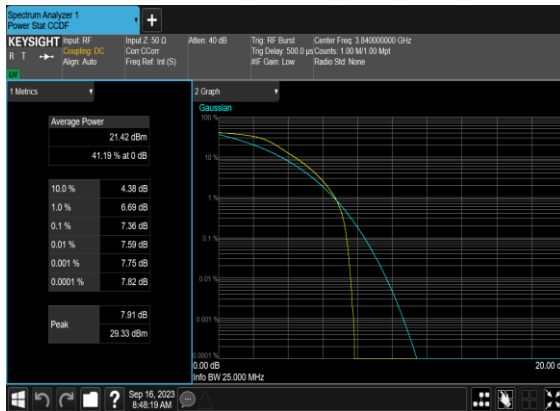
N77(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



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

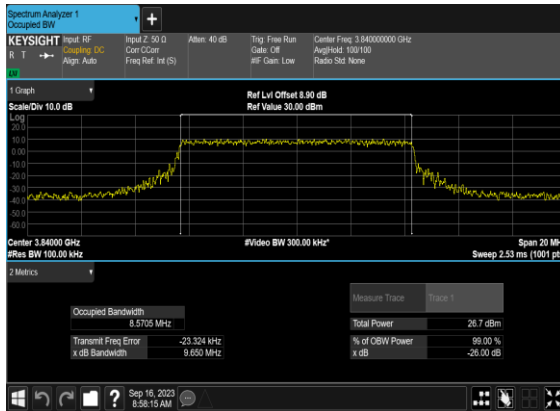


Occupied Bandwidth

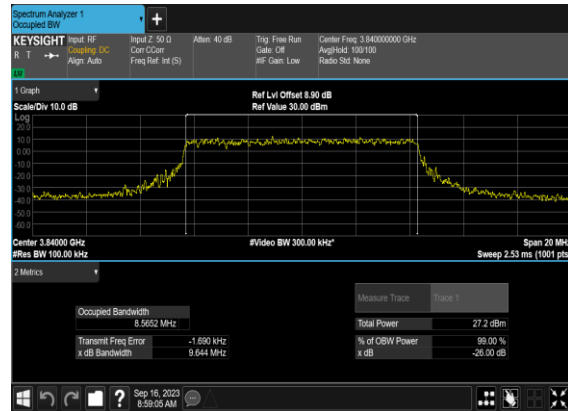
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	656000	3840.0	CP-OFDM QPSK	24@0	8.5705	9.65
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5652	9.644
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5596	9.332
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5664	9.307
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.567	14.5
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.6	14.9
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.588	14.64
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.543	14.79
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.197	19.66
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.229	18.98
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.183	19.39
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.22	19.33
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.88	29.18
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.815	29.25
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.826	29.26
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.89	29.25
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.914	39.84
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.802	39.95
77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.778	39.06
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.939	39.41
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.488	49.43
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.455	49.2
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.613	49.16
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.598	49.57
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.893	59.8

77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.772	59.75
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.85	59.79
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.797	59.65
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.418	69.54
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.376	69.69
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.635	69.84
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.399	69.69
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.341	79.94
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.374	79.94
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.413	79.94
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.376	79.99
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.509	90.21
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.341	90.33
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.412	90.18
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.283	90.26
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.477	100.5
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.321	100.4
77	30	100	656000	3840.0	CP-OFDM 64 QAM	273@0	97.456	100.6
77	30	100	656000	3840.0	CP-OFDM 256 QAM	273@0	97.292	100.5

N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



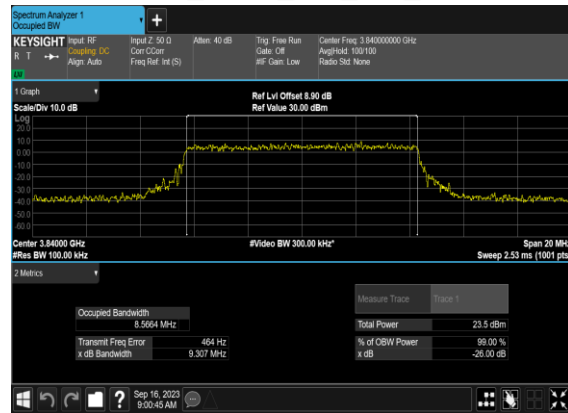
N77(10M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



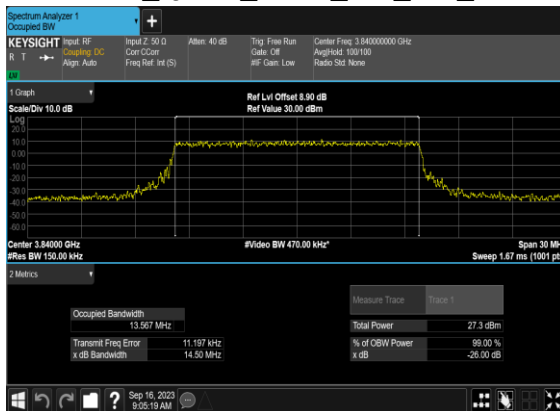
N77(10M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



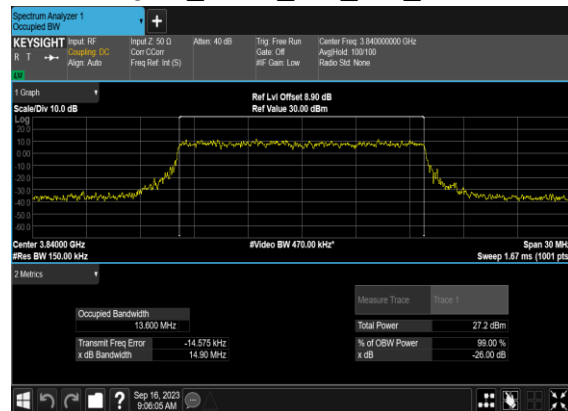
N77(10M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



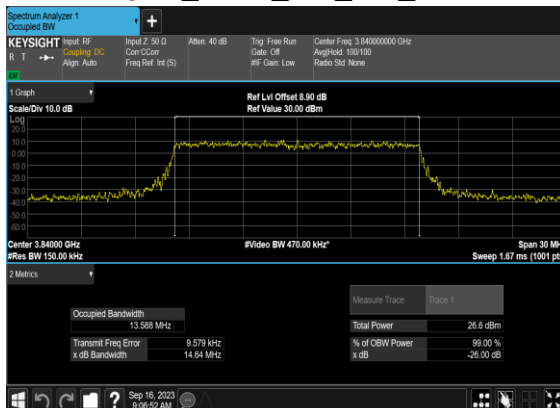
N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



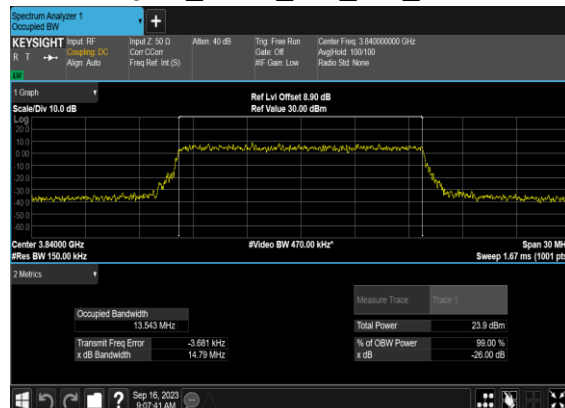
N77(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



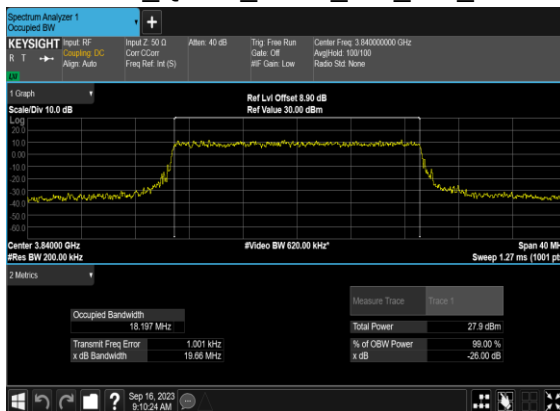
N77(15M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



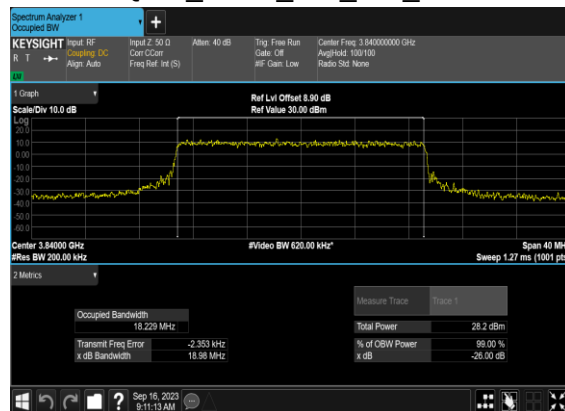
N77(15M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



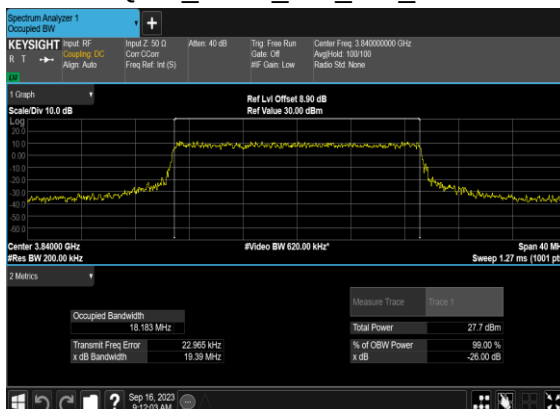
N77(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



N77(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



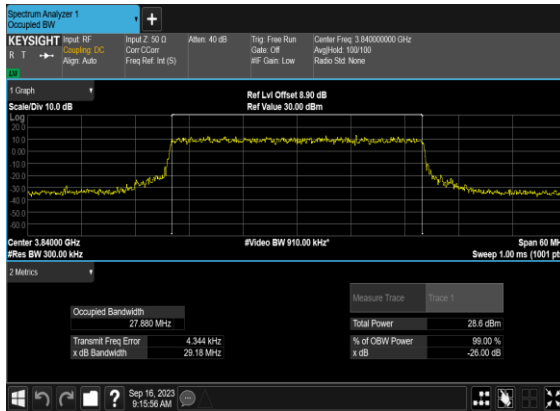
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QAM_Outer_Full_Mid_CH



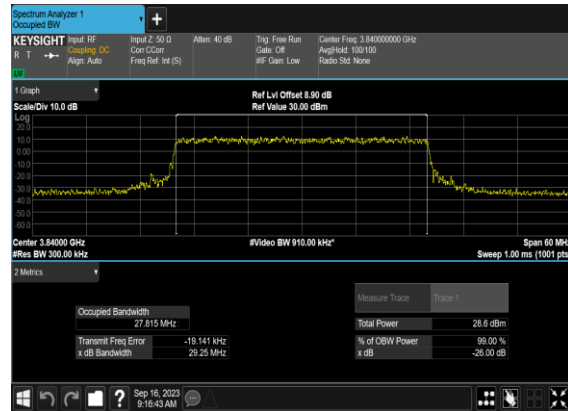
N77(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N77(30M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



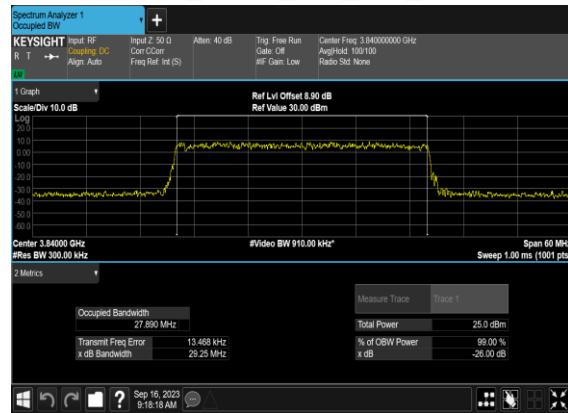
N77(30M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



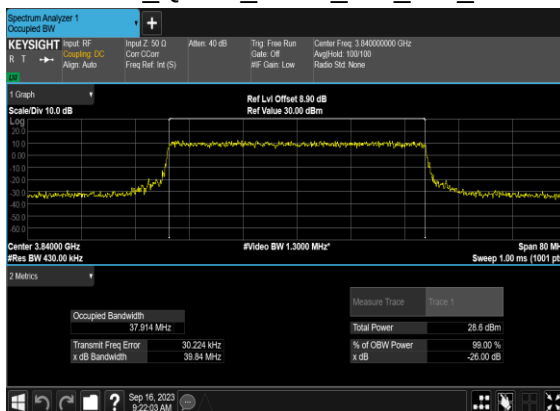
N77(30M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



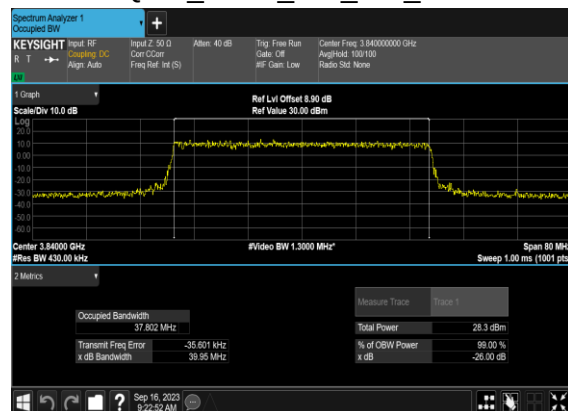
N77(30M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



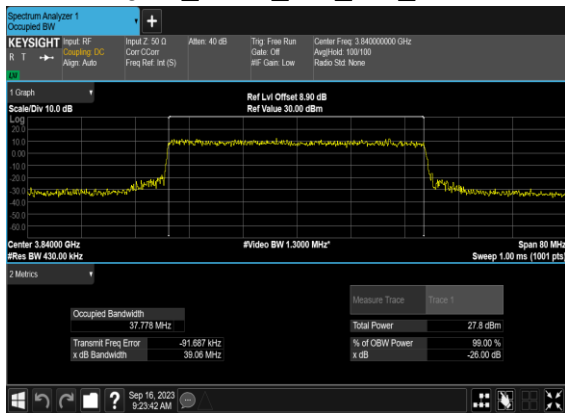
N77(40M)_CP- OFDM_QPSK_Outer_Full_Mid_CH



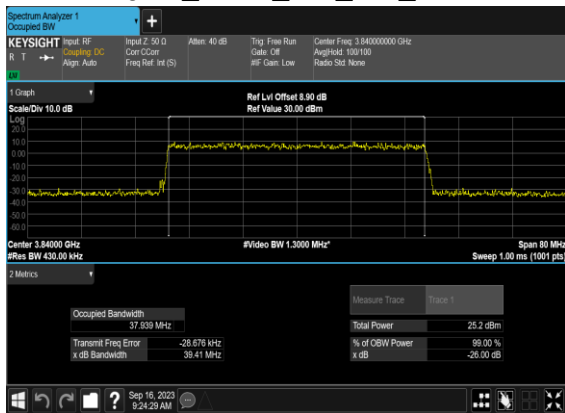
N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



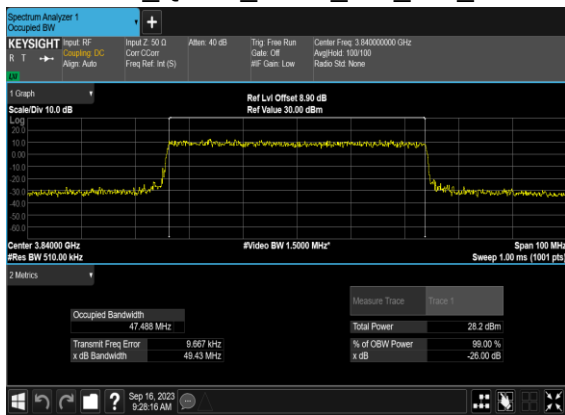
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QAM_Outer_Full_Mid_CH



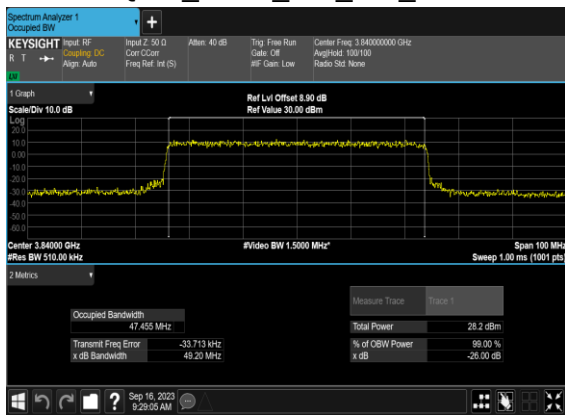
N77(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



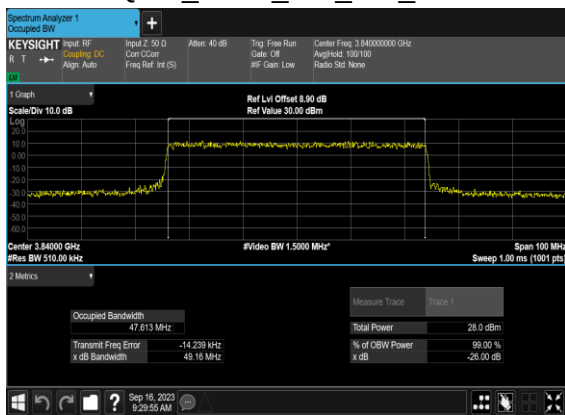
N77(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



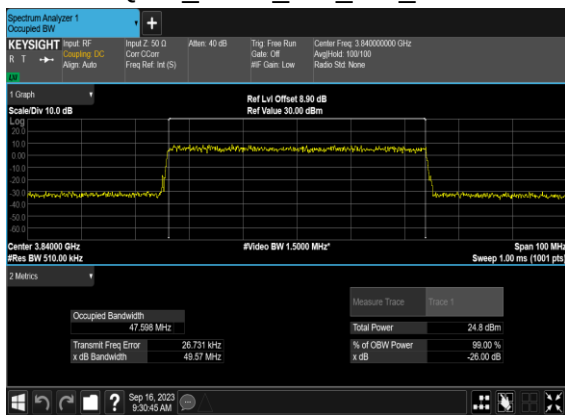
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QAM_Outer_Full_Mid_CH



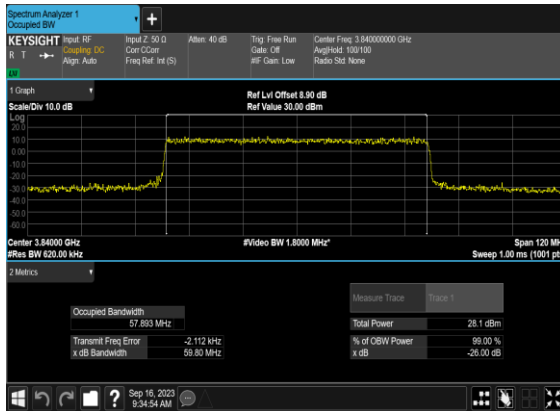
N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



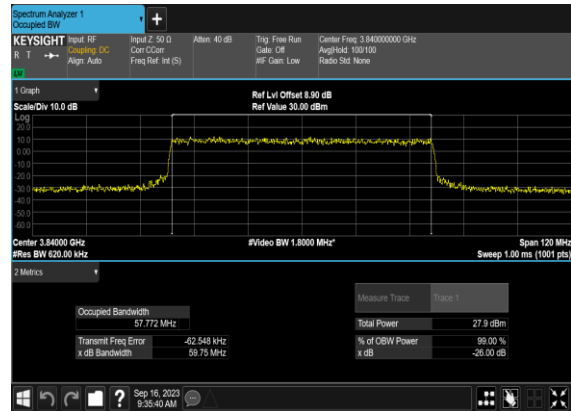
N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



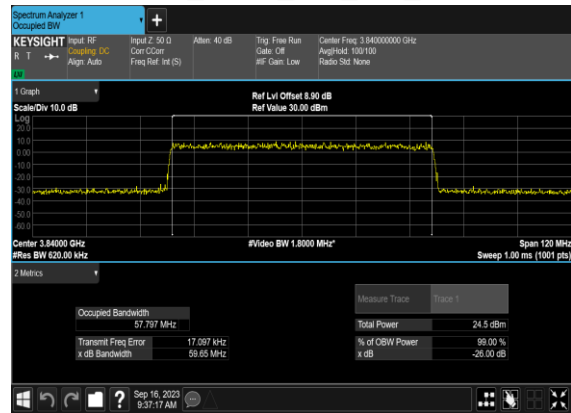
N77(60M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



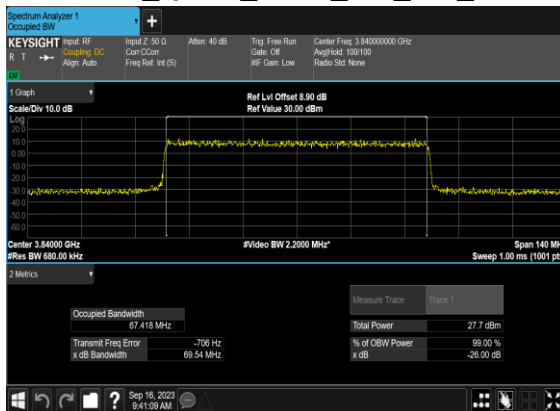
N77(60M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



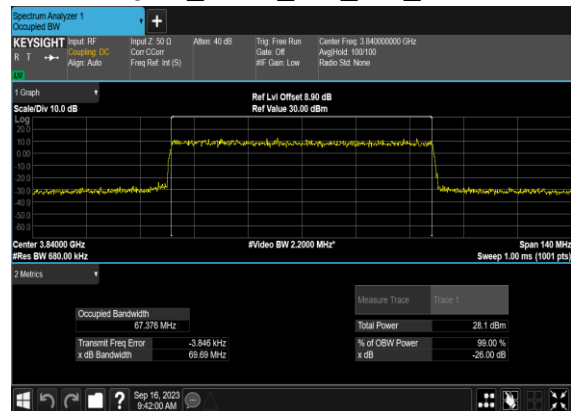
N77(60M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



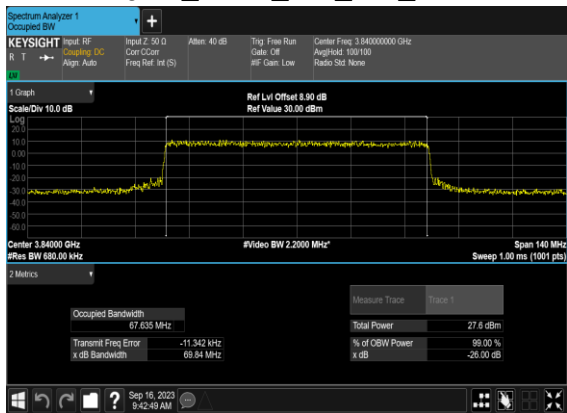
N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



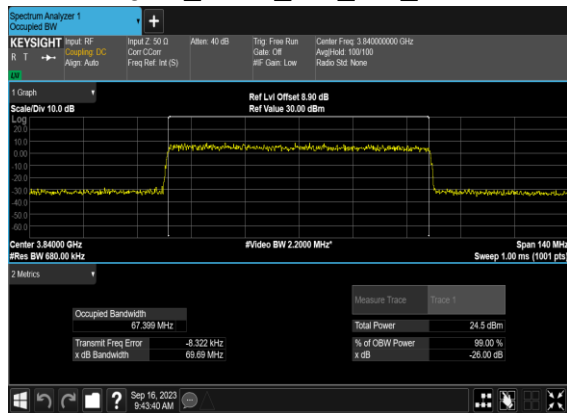
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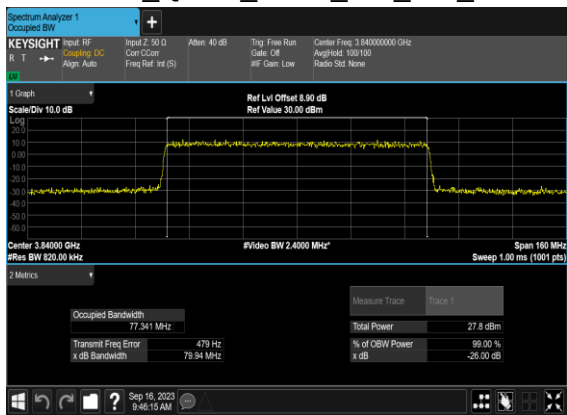
N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



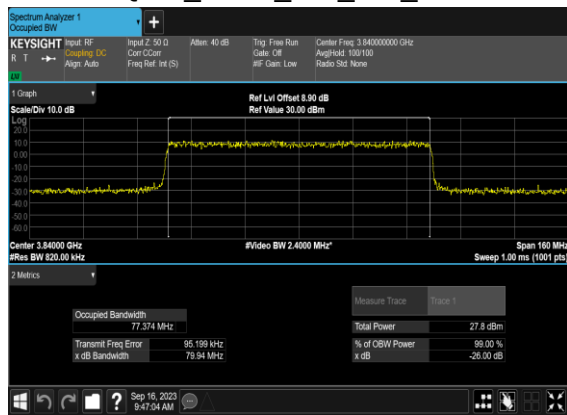
N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



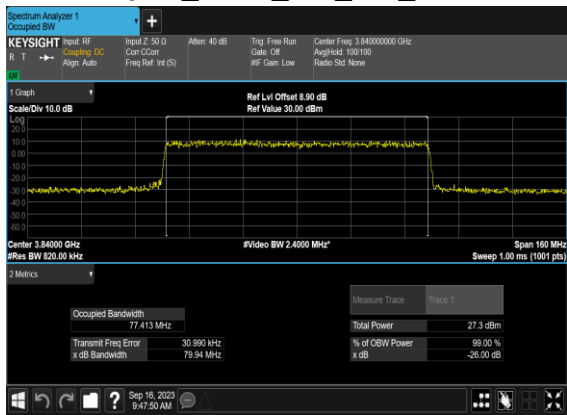
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



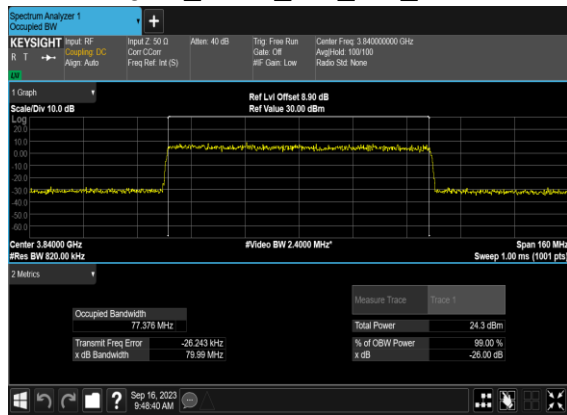
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QAM_Outer_Full_Mid_CH



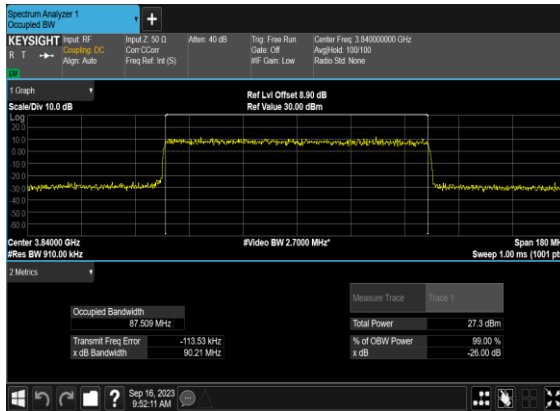
N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



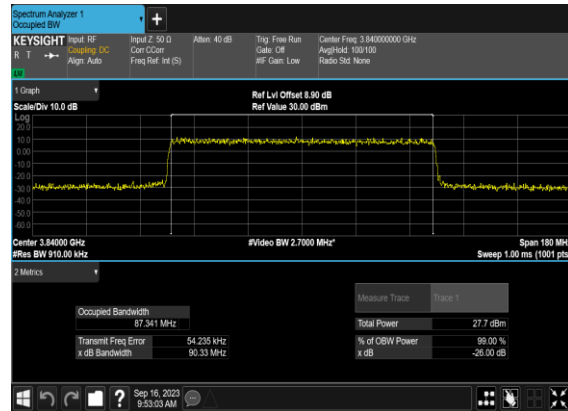
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QAM_Outer_Full_Mid_CH



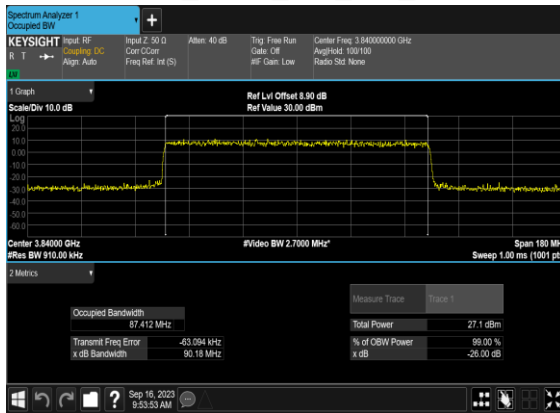
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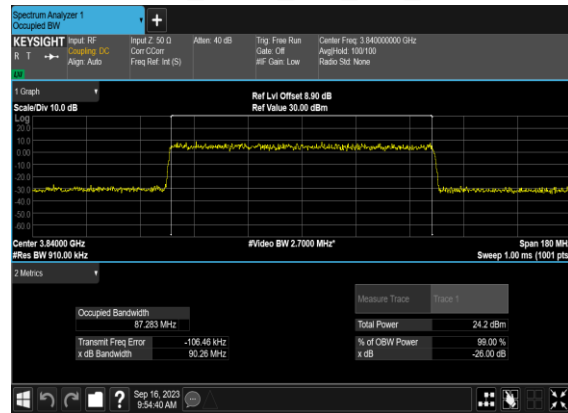
N77(90M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



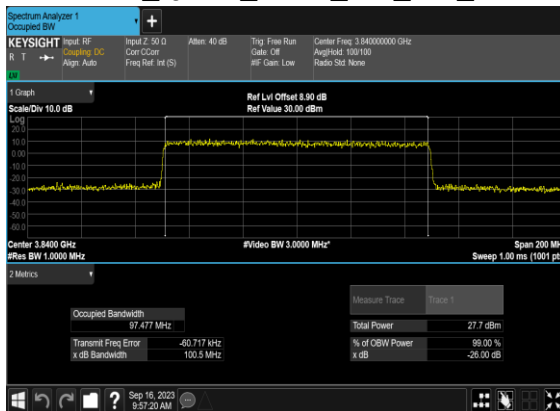
N77(90M)_CP-OFDM_64QAM_Outer_Full_Mid_CH



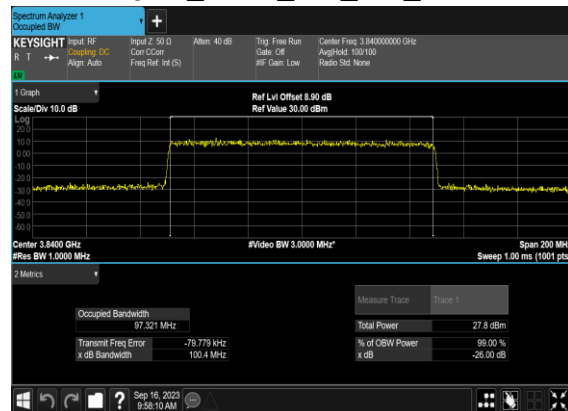
N77(90M)_CP-OFDM_256QAM_Outer_Full_Mid_CH



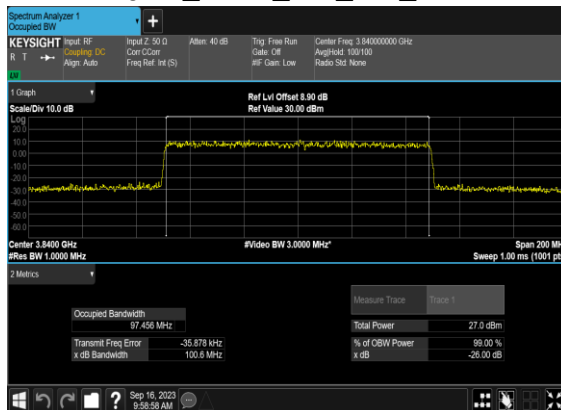
N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



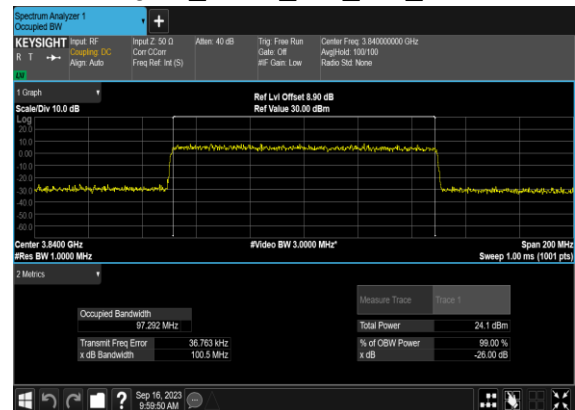
N77(100M)_CP-OFDM_16QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH



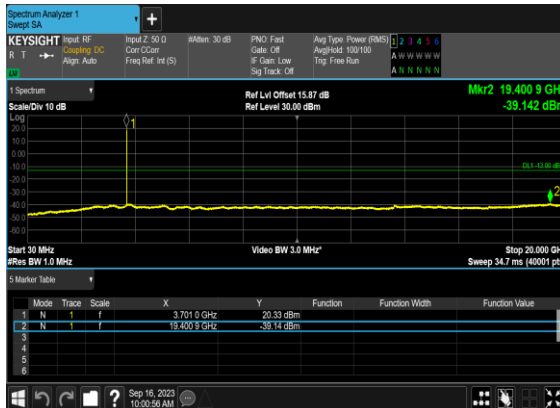
Conducted Spurious Emissions

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	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	10	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	10	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	---

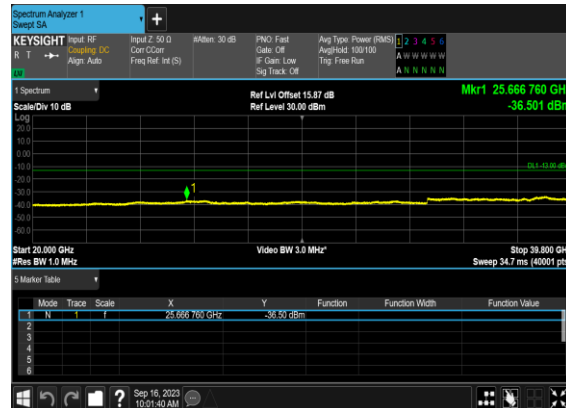
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
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	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
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	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	PASS

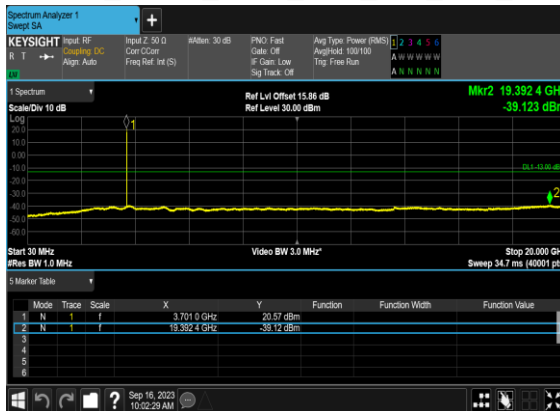
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



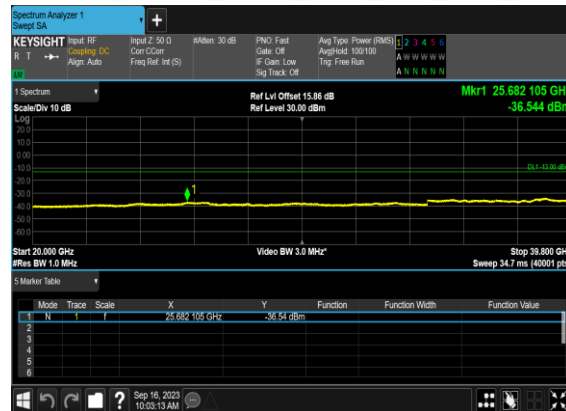
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



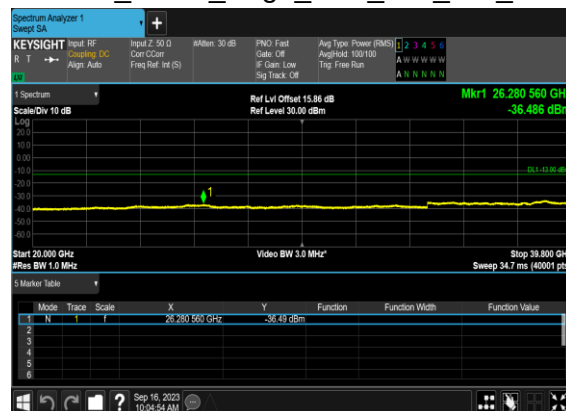
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OFDM_QPSK_Edge_1RB_Left_Low_CH



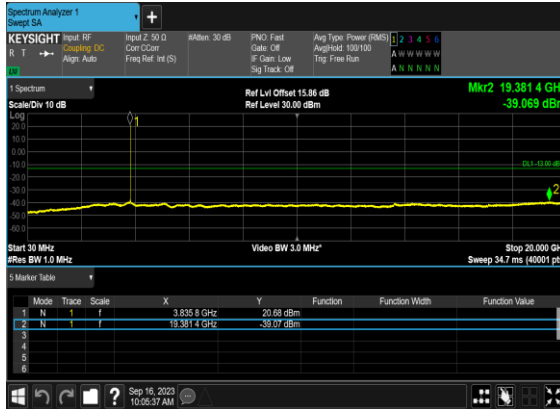
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



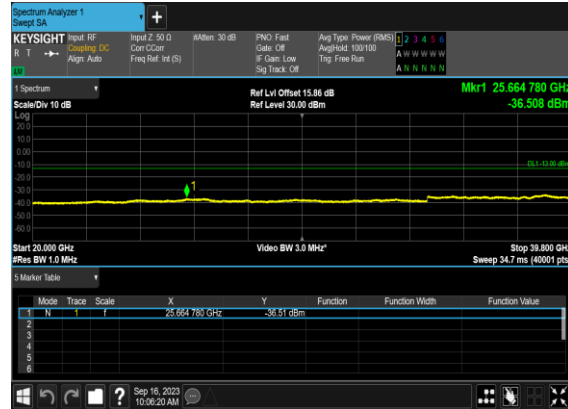
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



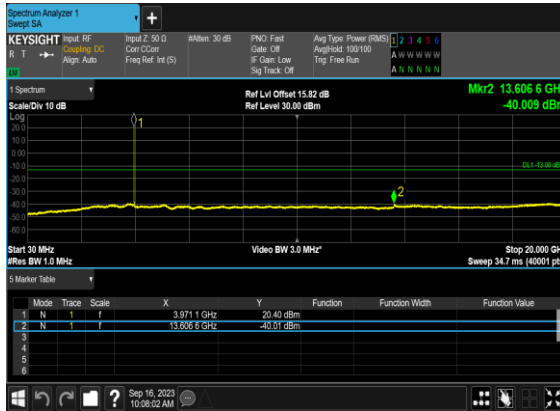
N77(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



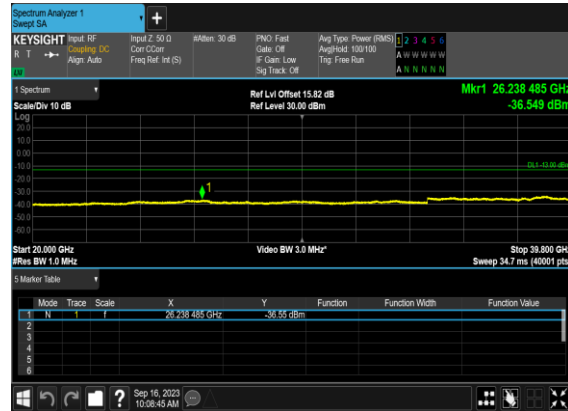
N77(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



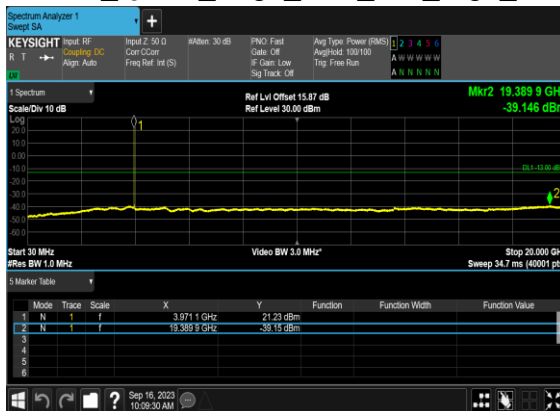
N77(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



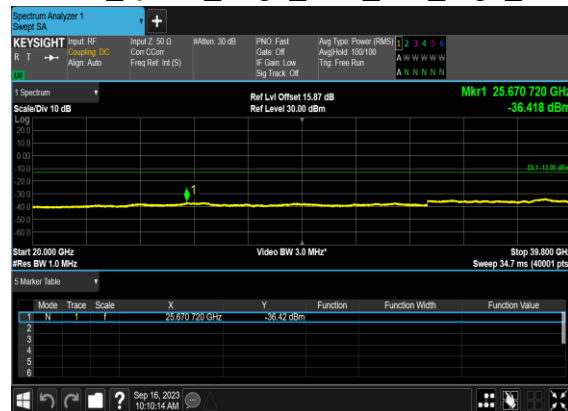
N77(10M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



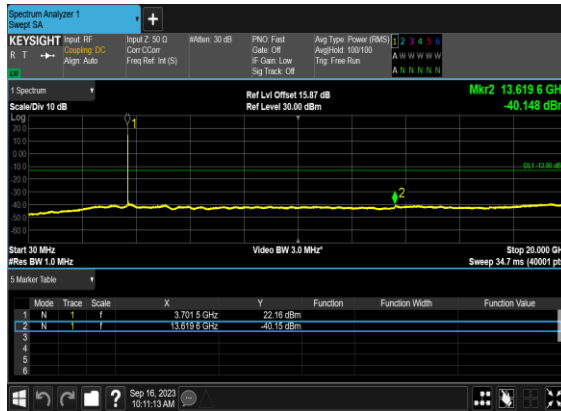
N77(10M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



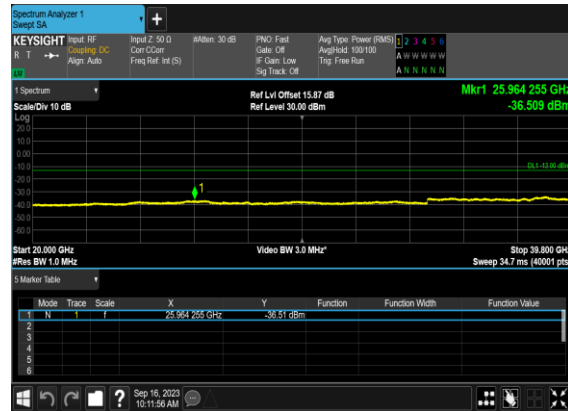
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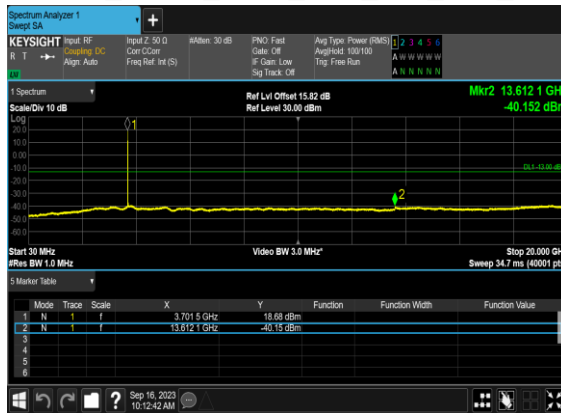
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



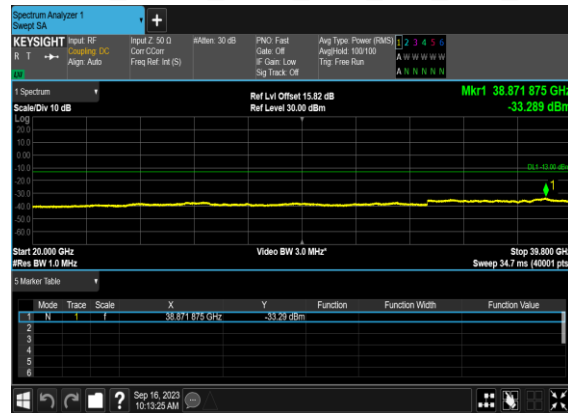
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



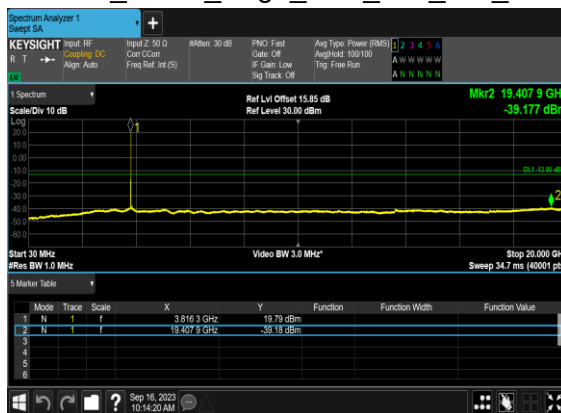
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OFDM_QPSK_Edge_1RB_Left_Low_CH



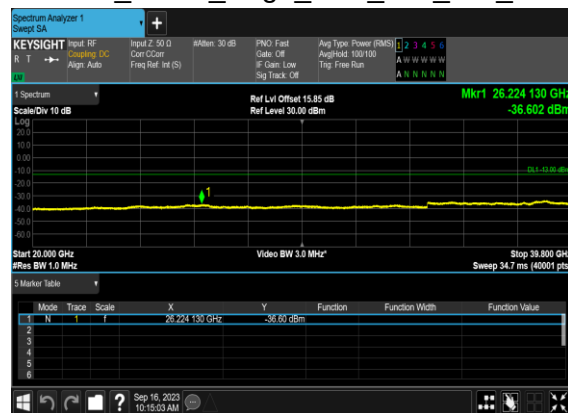
N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



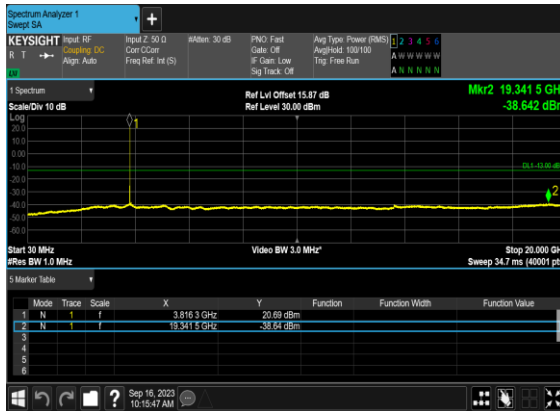
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



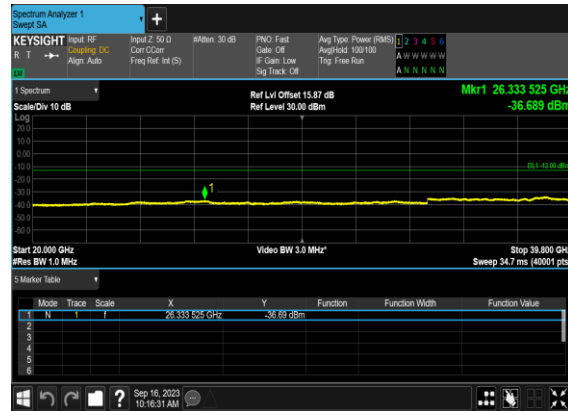
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



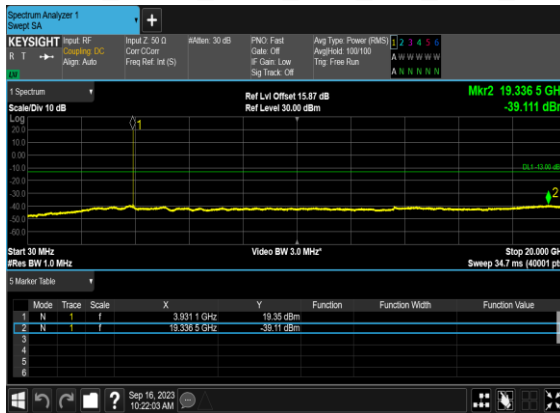
N77(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



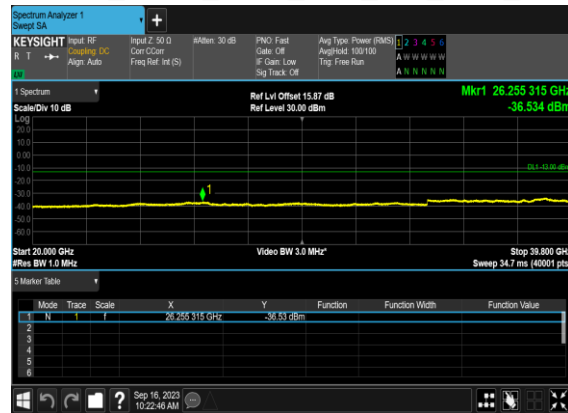
N77(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_Mid_CH



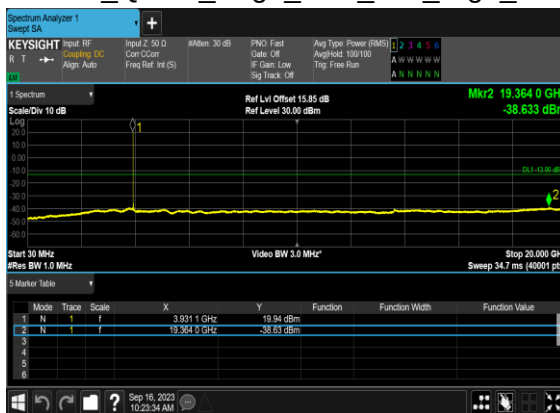
N77(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



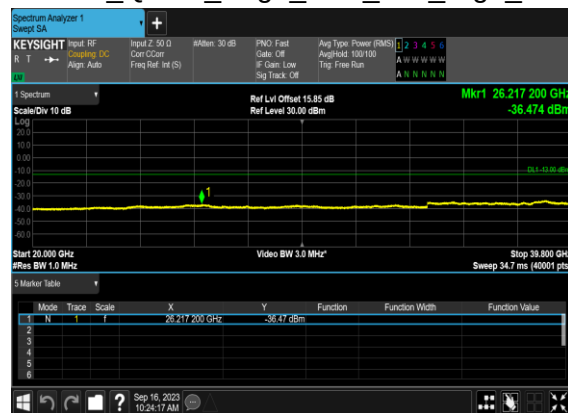
N77(50M)_DFT-s- OFDM_BPSK_Edge_1RB_Left_High_CH



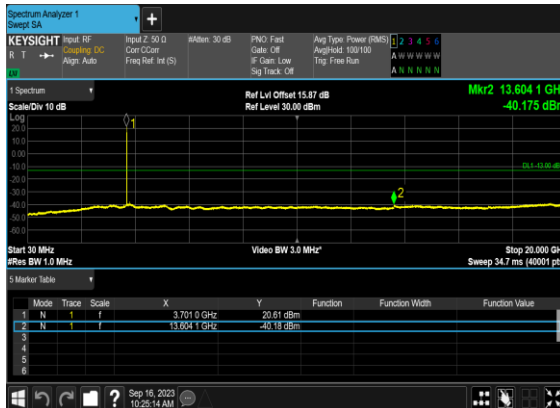
N77(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



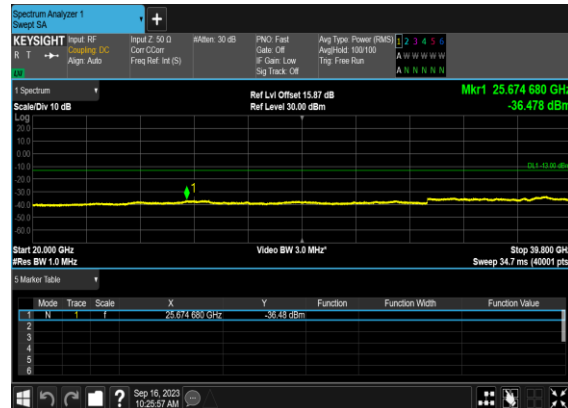
N77(50M)_DFT-s- OFDM_QPSK_Edge_1RB_Left_High_CH



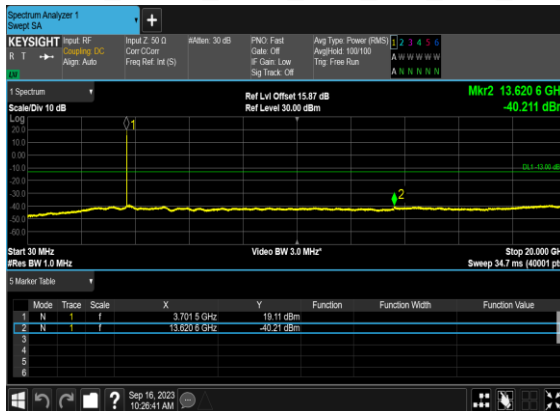
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



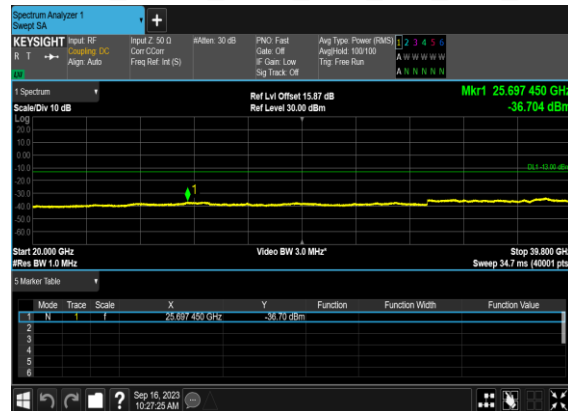
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



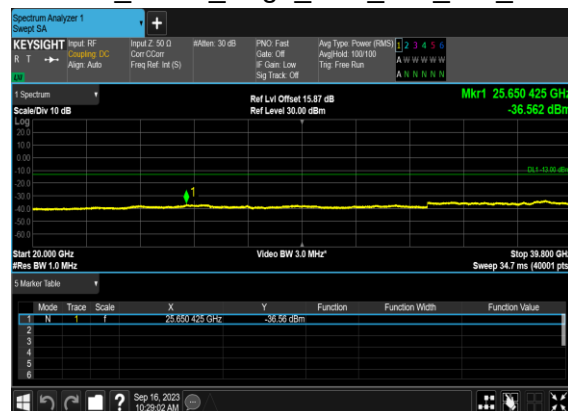
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OFDM_QPSK_Edge_1RB_Left_Low_CH



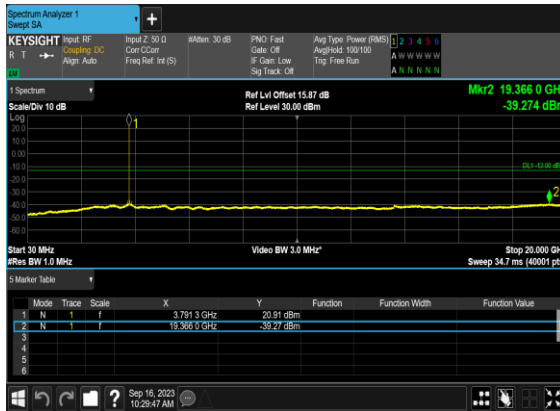
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



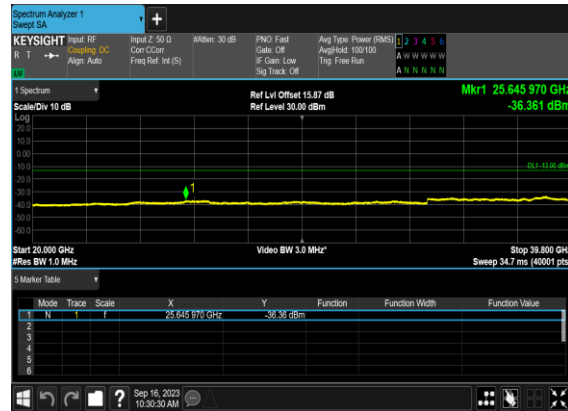
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



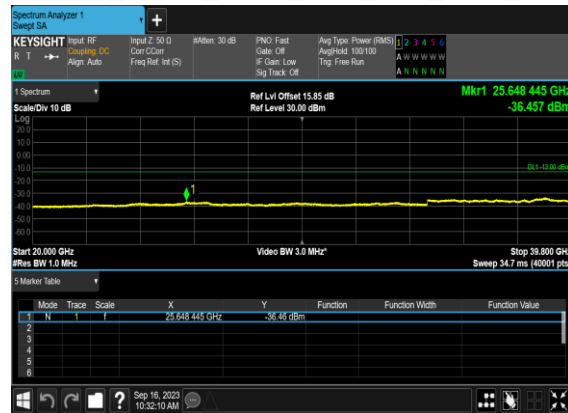
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



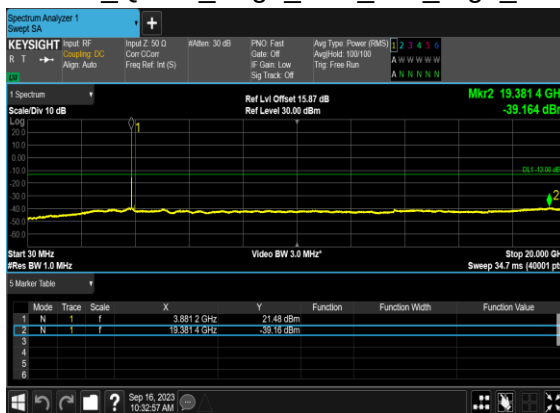
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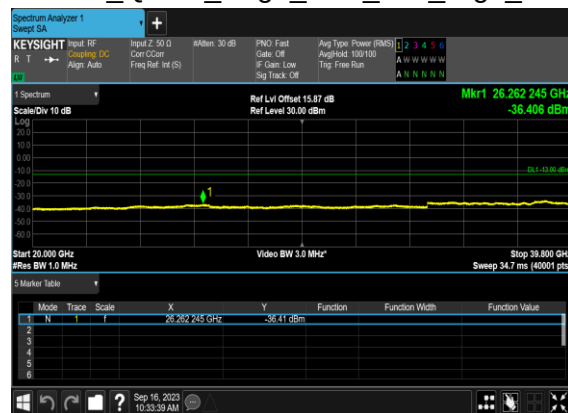
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



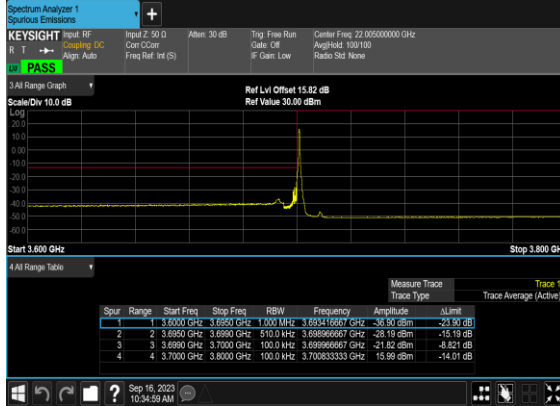
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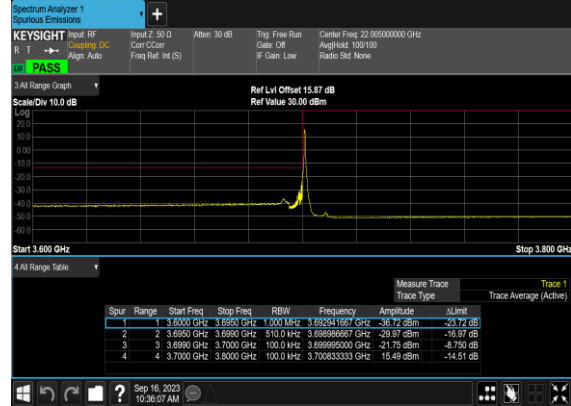
Conducted Band Edge

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	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	647000	3705.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	1@23	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM BPSK	24@0	see graph	PASS
77	30	10	665000	3975.0	DFT-s-OFDM QPSK	24@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@132	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM BPSK	128@0	see graph	PASS
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	128@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@272	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	270@0	see graph	PASS
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	270@0	see graph	PASS

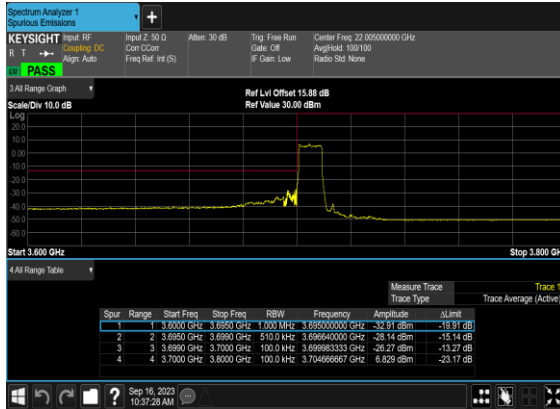
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



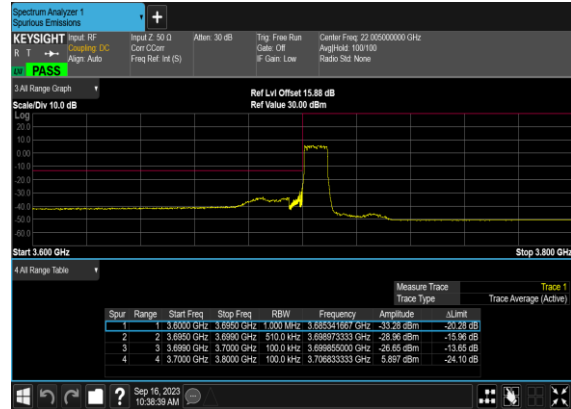
N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



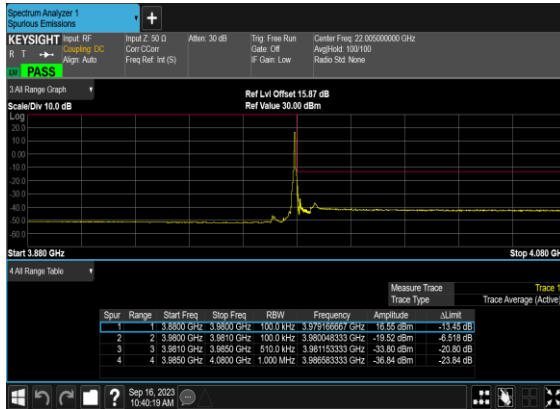
N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH



N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH

