




FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 
MODEL NAME : CPH2655
FCC ID : 2ABZ2-OP23895
STANDARD : 47 CFR Part 27 Subpart O (3700-3980MHz)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Aug. 01, 2024 ~ Aug 14, 2024

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)

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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 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 MEASUREMENT UNCERTAINTY ... 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 | §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+10log10(P[Watts]) | PASS | - |
| 3.8 | §2.1051 §27.53(l)(2) | Conducted Spurious Emission (5G NR n77, n78) | < 43+10log10(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 16.94 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/manufacturer 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 | ONEPLUS,  |
| Model Name | CPH2655 |
| FCC ID | 2ABZ2-OP23895 |
| IMEI Code | Conducted: 866493070032172/866493070032164 Radiation: 866493070032891/866493070032883 |
| HW Version | 11 |
| SW Version | OxygenOS V15.0 |
| 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/n78: 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz |
| Antenna Gain | <Ant. 6> 5G NR n77: -2 dBi 5G NR n78: -2 dBi <Ant. 10> 5G NR n77: 0 dBi 5G NR n78: 0 dBi <Ant. 11> 5G NR n77: -1 dBi 5G NR n78: -1 dBi <Ant. 12> 5G NR n77: -1 dBi 5G NR n78: -1 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 max antenna gain, only the maximum EIRP are shown in the report, 5G NR n77/n78 for Ant. 10.
2. 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.
3. The device supports HPUE mode for 5G NR n77/n78.
4. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
5. 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 | 0.4093 | 8M57G7D | 0.3289 | 8M58W7D |
| 15 | 3705.52 ~ 3972.48 | 0.4083 | 13M6G7D | 0.3251 | 13M6W7D |
| 20 | 3710.01 ~ 3969.99 | 0.3972 | 18M2G7D | 0.3221 | 18M2W7D |
| 25 | 3712.50 ~ 3967.50 | 0.4018 | 23M1G7D | 0.3236 | 23M2W7D |
| 30 | 3715.02 ~ 3964.98 | 0.4169 | 27M9G7D | 0.3296 | 27M8W7D |
| 40 | 3720.00 ~ 3960.00 | 0.4018 | 37M8G7D | 0.3266 | 37M9W7D |
| 50 | 3725.01 ~ 3954.99 | 0.4074 | 47M4G7D | 0.3357 | 47M6W7D |
| 60 | 3730.02 ~ 3949.98 | 0.4027 | 57M9G7D | 0.3289 | 58M0W7D |
| 70 | 3735.00 ~ 3945.00 | 0.4130 | 67M3G7D | 0.3327 | 67M7W7D |
| 80 | 3740.01 ~ 3939.99 | 0.4178 | 77M5G7D | 0.3381 | 77M5W7D |
| 90 | 3745.02 ~ 3934.98 | 0.4198 | 87M6G7D | 0.3396 | 87M5W7D |
| 100 | 3750.00 ~ 3930.00 | 0.4426 | 97M7G7D | 0.3508 | 97M6W7D |



| 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 | 0.4266 | 8M57G7D | 0.3581 | 8M58W7D |
| 15 | 3707.52 ~ 3792.48 | 0.4365 | 13M6G7D | 0.3565 | 13M6W7D |
| 20 | 3710.01 ~ 3789.99 | 0.4276 | 18M2G7D | 0.3483 | 18M2W7D |
| 25 | 3712.50 ~ 3787.50 | 0.4169 | 23M1G7D | 0.3673 | 23M2W7D |
| 30 | 3715.02 ~ 3784.98 | 0.4375 | 27M9G7D | 0.3606 | 27M8W7D |
| 40 | 3720.00 ~ 3780.00 | 0.4375 | 37M8G7D | 0.3443 | 37M9W7D |
| 50 | 3725.01 ~ 3774.99 | 0.4345 | 47M4G7D | 0.3516 | 47M6W7D |
| 60 | 3730.02 ~ 3769.98 | 0.4365 | 57M9G7D | 0.3483 | 58M0W7D |
| 70 | 3735.00 ~ 3765.00 | 0.4365 | 67M3G7D | 0.3451 | 67M7W7D |
| 80 | 3740.01 ~ 3759.99 | 0.4305 | 77M5G7D | 0.3459 | 77M5W7D |
| 90 | 3745.02 ~ 3754.98 | 0.4365 | 87M6G7D | 0.3508 | 87M5W7D |
| 100 | 3750.00 ~ 3750.00 | 0.4385 | 97M7G7D | 0.3573 | 97M6W7D |

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 27
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining 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.

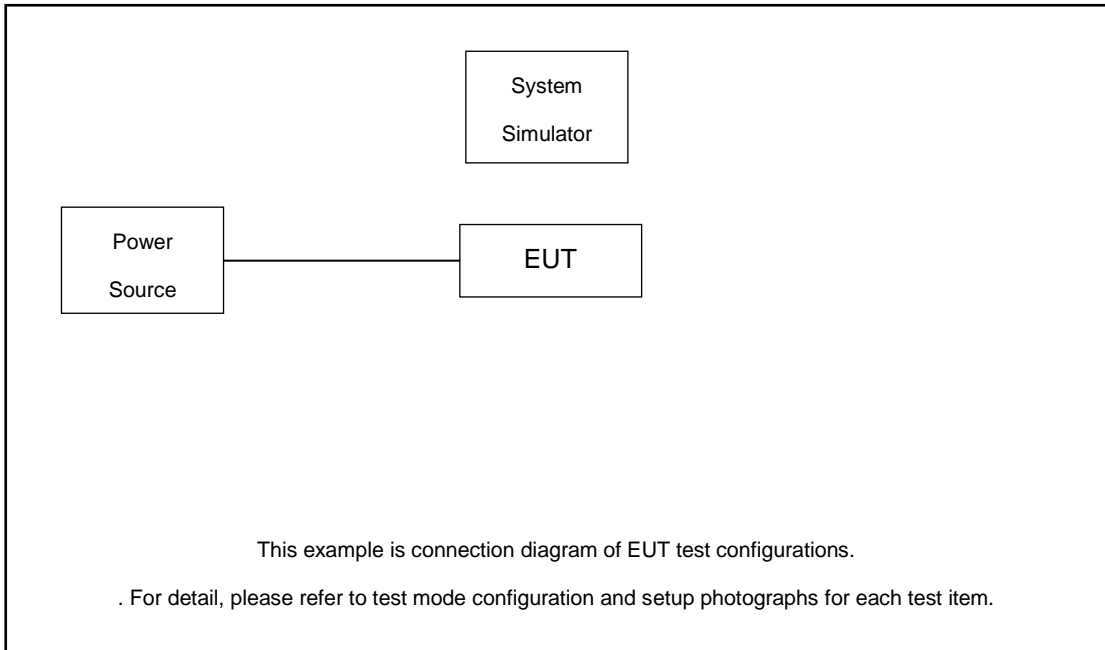
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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 | 25 | 30 | 40 | 50 | 60 | 70~90 | 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 |
| | 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 | |
| 26dB and 99% Bandwidth | n77 | 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 |
| | 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 |
| | n78 | 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 = 8.0V; Low Voltage =7.2V; 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 and attenuator factor.

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 |
| 25 | Channel | 647500 | 656000 | 664500 |
| | Frequency | 3712.5 | 3840 | 3967.5 |
| 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 |
| 25 | Channel | 647500 | 650000 | 652500 |
| | Frequency | 3712.5 | 3750 | 3787.5 |
| 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 |

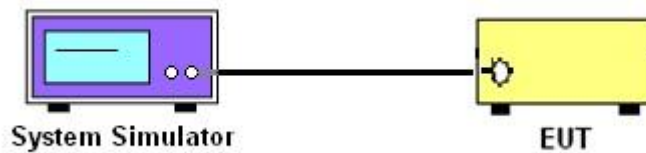
3 Conducted Test Items

3.1 Measuring Instruments

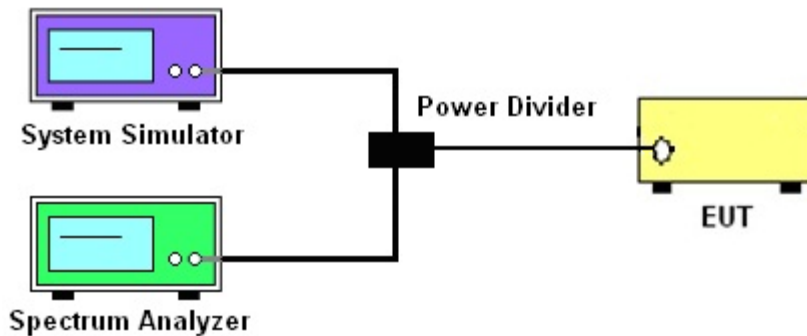
See list of measuring instruments of this test report.

3.2 Test Setup

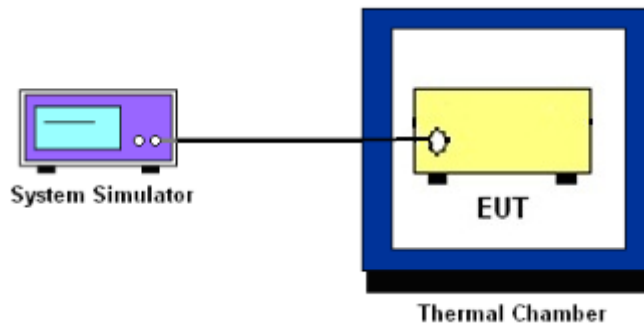
3.2.1 Conducted Output Power



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

Example:

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

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 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(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°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.

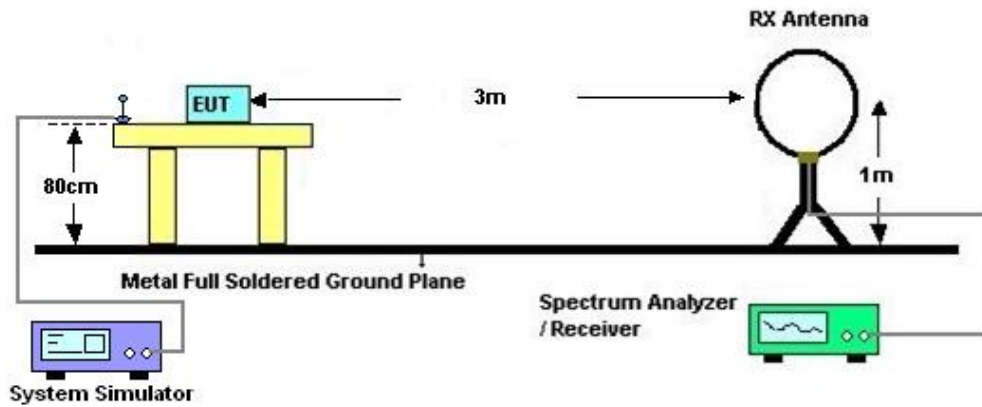
4 Radiated Test Items

4.1 Measuring Instruments

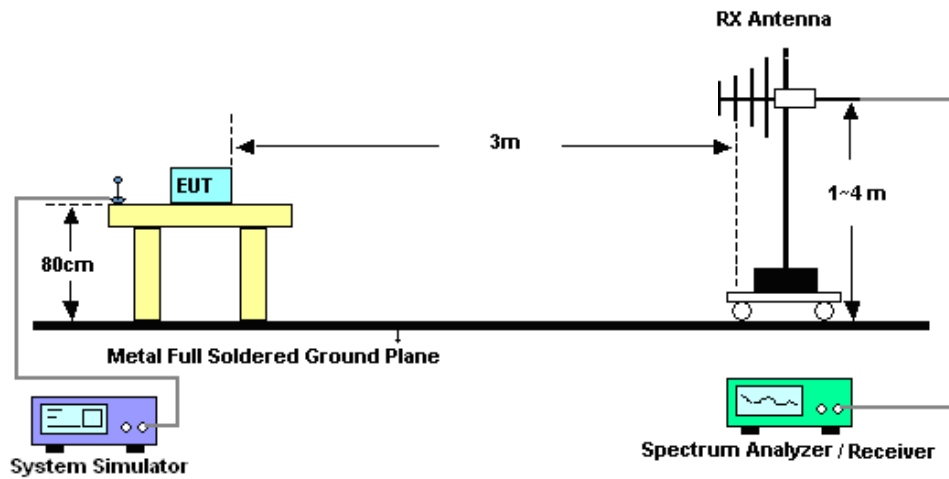
See list of measuring instruments of this test report.

4.2 Test Setup

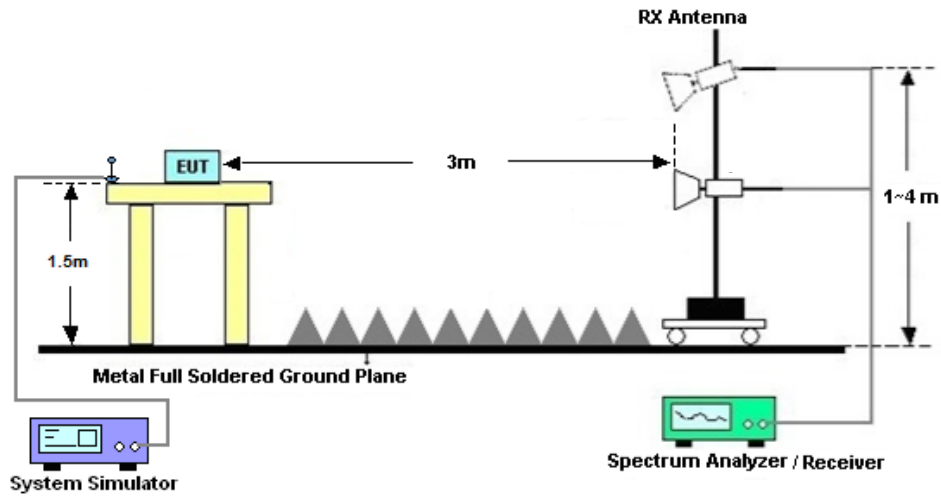
4.2.1 For radiated test below 30MHz



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



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. 09, 2024 | Aug 01, 2024~ Aug 14, 2024 | Apr. 08, 2025 | Conducted (TH01-SZ) |
| DC Power Supply | TTI | PL330P | 290070 | Max 32V , 3A | Oct. 16, 2023 | Aug 01, 2024~ Aug 14, 2024 | Oct. 15, 2024 | Conducted (TH01-SZ) |
| Power Divider | TOJOIN | PS-2SM-04 265 | 60.06.020.00 77 | 0.4GHz~26.5GHz | Dec. 25, 2023 | Aug 01, 2024~ Aug 14, 2024 | Dec. 24, 2024 | Conducted (TH01-SZ) |
| Thermal Chamber | Ten Billion Hongzhangroup | LP-150U | H2014081803 | -40~+150°C | Jul. 03, 2024 | Aug 01, 2024~ Aug 14, 2024 | Jul. 02, 2025 | Conducted (TH01-SZ) |
| EMI Test Receiver&SA | Agilent | N9038A | MY52260185 | 20Hz~26.5GHz | Dec. 27, 2023 | Aug 06, 2024 | Dec. 26, 2024 | Radiation (03CH01-SZ) |
| Loop Antenna | R&S | HFH2-Z2E | 101141 | 9kHz~30MHz | Dec. 29, 2023 | Aug 06, 2024 | Dec. 28, 2024 | Radiation (03CH01-SZ) |
| HF Amplifier | KEYSIGHT | 83017A | MY53270105 | 0.5GHz~26.5GHz | Oct. 18,2023 | Aug 06, 2024 | Oct. 17,2024 | Radiation (03CH01-SZ) |
| Bilog Antenna | TeseQ | CBL6112D | 35407 | 30MHz-2GHz | Oct. 24, 2023 | Aug 06, 2024 | Oct. 23, 2025 | Radiation (03CH01-SZ) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00119436 | 1GHz~18GHz | Jul. 04, 2024 | Aug 06, 2024 | Jul. 03, 2025 | Radiation (03CH01-SZ) |
| SHF-EHF Horn | com-power | AH-840 | 101071 | 18GHz-40GHz | Apr. 09,2024 | Aug 06, 2024 | Apr. 08,2025 | Radiation (03CH01-SZ) |
| LF Amplifier | Burgeon | BPA-530 | 102209 | 0.01~3000Mhz | Apr. 09, 2024 | Aug 06, 2024 | Apr. 08, 2025 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | AMF-7D-00 101800-30- 10P-R | 1943528 | 1GHz~18GHz | Oct. 18,2023 | Aug 06, 2024 | Oct. 17,2024 | Radiation (03CH01-SZ) |
| HF Amplifier | MITEQ | TTA1840-35 -HG | 1871923 | 18GHz~40GHz | Jul. 03, 2024 | Aug 06, 2024 | Jul. 02, 2025 | Radiation (03CH01-SZ) |
| AC Power Source | Chroma | 61601 | 61601000198 5 | N/A | Oct. 18,2023 | Aug 06, 2024 | Oct. 17,2024 | Radiation (03CH01-SZ) |
| Turn Table | EM | EM1000 | N/A | 0~360 degree | NCR | Aug 06, 2024 | NCR | Radiation (03CH01-SZ) |
| Antenna Mast | EM | EM1000 | N/A | 1 m~4 m | NCR | Aug 06, 2024 | 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 Spurious Emission & Bandedge | ±1.34 dB |
| Occupied Channel Bandwidth | ±0.012 MHz |
| Conducted Power | ±1.34 dB |
| Peak to Average Ratio | ±1.34 dB |
| Frequency Stability | ±1.3 Hz |

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

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 2.48 dB |
|---|---------|

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

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.53 dB |
|---|---------|

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

| | |
|---|---------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.02 dB |
|---|---------|

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



Appendix A. Test Results of Conducted Test

| | | | |
|-----------------|------|---------------------|---------|
| Test Engineer : | Khan | Temperature : | 24~26°C |
| | | Relative Humidity : | 50~53% |



FR1 N77

Transmitter Conducted Output Power And EIRP, (G_T - L_C)=0dB

| 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 | 26.12 | 26.12 | 0.4093 |
| 77 | 30 | 10 | 647000 | 3705 | DFT-s-OFDM 16 QAM | 1@1 | 25.17 | 25.17 | 0.3289 |
| 77 | 30 | 10 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.82 | 25.82 | 0.3819 |
| 77 | 30 | 10 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 24.9 | 24.9 | 0.3090 |
| 77 | 30 | 10 | 665000 | 3975 | DFT-s-OFDM QPSK | 1@1 | 25.45 | 25.45 | 0.3508 |
| 77 | 30 | 10 | 665000 | 3975 | DFT-s-OFDM 16 QAM | 1@1 | 24.57 | 24.57 | 0.2864 |
| 77 | 30 | 15 | 647168 | 3707.52 | DFT-s-OFDM QPSK | 1@1 | 26.11 | 26.11 | 0.4083 |
| 77 | 30 | 15 | 647168 | 3707.52 | DFT-s-OFDM 16 QAM | 1@1 | 25.12 | 25.12 | 0.3251 |
| 77 | 30 | 15 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.88 | 25.88 | 0.3873 |
| 77 | 30 | 15 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 24.99 | 24.99 | 0.3155 |
| 77 | 30 | 15 | 664832 | 3972.48 | DFT-s-OFDM QPSK | 1@1 | 25.22 | 25.22 | 0.3327 |
| 77 | 30 | 15 | 664832 | 3972.48 | DFT-s-OFDM 16 QAM | 1@1 | 24.33 | 24.33 | 0.2710 |
| 77 | 30 | 20 | 647334 | 3710.01 | DFT-s-OFDM QPSK | 1@1 | 25.99 | 25.99 | 0.3972 |
| 77 | 30 | 20 | 647334 | 3710.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.05 | 25.05 | 0.3199 |
| 77 | 30 | 20 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.85 | 25.85 | 0.3846 |
| 77 | 30 | 20 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.08 | 25.08 | 0.3221 |
| 77 | 30 | 20 | 664666 | 3969.99 | DFT-s-OFDM QPSK | 1@1 | 25.81 | 25.81 | 0.3811 |
| 77 | 30 | 20 | 664666 | 3969.99 | DFT-s-OFDM 16 QAM | 1@1 | 25.03 | 25.03 | 0.3184 |
| 77 | 30 | 25 | 647500 | 3712.5 | DFT-s-OFDM QPSK | 1@1 | 26.04 | 26.04 | 0.4018 |
| 77 | 30 | 25 | 647500 | 3712.5 | DFT-s-OFDM 16 QAM | 1@1 | 25.1 | 25.1 | 0.3236 |
| 77 | 30 | 25 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.94 | 25.94 | 0.3926 |
| 77 | 30 | 25 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.06 | 25.06 | 0.3206 |
| 77 | 30 | 25 | 664500 | 3967.5 | DFT-s-OFDM QPSK | 1@1 | 24.97 | 24.97 | 0.3141 |
| 77 | 30 | 25 | 664500 | 3967.5 | DFT-s-OFDM 16 QAM | 1@1 | 24.14 | 24.14 | 0.2594 |
| 77 | 30 | 30 | 647668 | 3715.02 | DFT-s-OFDM QPSK | 1@1 | 26.2 | 26.2 | 0.4169 |
| 77 | 30 | 30 | 647668 | 3715.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.18 | 25.18 | 0.3296 |
| 77 | 30 | 30 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 26.01 | 26.01 | 0.3990 |
| 77 | 30 | 30 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.09 | 25.09 | 0.3228 |
| 77 | 30 | 30 | 664332 | 3964.98 | DFT-s-OFDM QPSK | 1@1 | 24.86 | 24.86 | 0.3062 |
| 77 | 30 | 30 | 664332 | 3964.98 | DFT-s-OFDM 16 QAM | 1@1 | 24.02 | 24.02 | 0.2523 |
| 77 | 30 | 40 | 648000 | 3720 | DFT-s-OFDM QPSK | 1@1 | 26.04 | 26.04 | 0.4018 |
| 77 | 30 | 40 | 648000 | 3720 | DFT-s-OFDM 16 QAM | 1@1 | 25.08 | 25.08 | 0.3221 |
| 77 | 30 | 40 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 26.01 | 26.01 | 0.3990 |
| 77 | 30 | 40 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.14 | 25.14 | 0.3266 |
| 77 | 30 | 40 | 664000 | 3960 | DFT-s-OFDM QPSK | 1@1 | 25 | 25 | 0.3162 |
| 77 | 30 | 40 | 664000 | 3960 | DFT-s-OFDM 16 QAM | 1@1 | 24.07 | 24.07 | 0.2553 |
| 77 | 30 | 50 | 648334 | 3725.01 | DFT-s-OFDM QPSK | 1@1 | 26.1 | 26.1 | 0.4074 |



| | | | | | | | | | |
|----|----|-----|--------|---------|----------------------|--------|-------|-------|--------|
| 77 | 30 | 50 | 648334 | 3725.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.24 | 25.24 | 0.3342 |
| 77 | 30 | 50 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.97 | 25.97 | 0.3954 |
| 77 | 30 | 50 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.26 | 25.26 | 0.3357 |
| 77 | 30 | 50 | 663666 | 3954.99 | DFT-s-OFDM QPSK | 1@1 | 25.06 | 25.06 | 0.3206 |
| 77 | 30 | 50 | 663666 | 3954.99 | DFT-s-OFDM 16 QAM | 1@1 | 24.16 | 24.16 | 0.2606 |
| 77 | 30 | 60 | 648668 | 3730.02 | DFT-s-OFDM QPSK | 1@1 | 25.95 | 25.95 | 0.3936 |
| 77 | 30 | 60 | 648668 | 3730.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.01 | 25.01 | 0.3170 |
| 77 | 30 | 60 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 26.05 | 26.05 | 0.4027 |
| 77 | 30 | 60 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.17 | 25.17 | 0.3289 |
| 77 | 30 | 60 | 663332 | 3949.98 | DFT-s-OFDM QPSK | 1@1 | 25.91 | 25.91 | 0.3899 |
| 77 | 30 | 60 | 663332 | 3949.98 | DFT-s-OFDM 16 QAM | 1@1 | 25.04 | 25.04 | 0.3192 |
| 77 | 30 | 70 | 649000 | 3735 | DFT-s-OFDM QPSK | 1@1 | 26.16 | 26.16 | 0.4130 |
| 77 | 30 | 70 | 649000 | 3735 | DFT-s-OFDM 16 QAM | 1@1 | 25.22 | 25.22 | 0.3327 |
| 77 | 30 | 70 | 656000 | 3735 | DFT-s-OFDM QPSK | 1@1 | 25.23 | 25.23 | 0.3334 |
| 77 | 30 | 70 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.17 | 25.17 | 0.3289 |
| 77 | 30 | 70 | 663000 | 3945 | DFT-s-OFDM QPSK | 1@1 | 25.85 | 25.85 | 0.3846 |
| 77 | 30 | 70 | 663000 | 3945 | DFT-s-OFDM 16 QAM | 1@1 | 24.85 | 24.85 | 0.3055 |
| 77 | 30 | 80 | 649334 | 3740.01 | DFT-s-OFDM QPSK | 1@1 | 26.21 | 26.21 | 0.4178 |
| 77 | 30 | 80 | 649334 | 3740.01 | DFT-s-OFDM 16 QAM | 1@1 | 25.29 | 25.29 | 0.3381 |
| 77 | 30 | 80 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 26.03 | 26.03 | 0.4009 |
| 77 | 30 | 80 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.1 | 25.1 | 0.3236 |
| 77 | 30 | 80 | 662666 | 3939.99 | DFT-s-OFDM QPSK | 1@1 | 25.58 | 25.58 | 0.3614 |
| 77 | 30 | 80 | 662666 | 3939.99 | DFT-s-OFDM 16 QAM | 1@1 | 24.65 | 24.65 | 0.2917 |
| 77 | 30 | 90 | 649668 | 3745.02 | DFT-s-OFDM QPSK | 1@1 | 26.23 | 26.23 | 0.4198 |
| 77 | 30 | 90 | 649668 | 3745.02 | DFT-s-OFDM 16 QAM | 1@1 | 25.31 | 25.31 | 0.3396 |
| 77 | 30 | 90 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 25.92 | 25.92 | 0.3908 |
| 77 | 30 | 90 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.05 | 25.05 | 0.3199 |
| 77 | 30 | 90 | 662332 | 3934.98 | DFT-s-OFDM QPSK | 1@1 | 25.43 | 25.43 | 0.3491 |
| 77 | 30 | 90 | 662332 | 3934.98 | DFT-s-OFDM 16 QAM | 1@1 | 24.52 | 24.52 | 0.2831 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM PI/2 BPSK | 135@67 | 25.94 | 25.94 | 0.3926 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM PI/2 BPSK | 1@1 | 25.94 | 25.94 | 0.3926 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM PI/2 BPSK | 1@271 | 26.31 | 26.31 | 0.4276 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM QPSK | 135@67 | 26.37 | 26.37 | 0.4335 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM QPSK | 1@1 | 26.46 | 26.46 | 0.4426 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM QPSK | 1@271 | 26.14 | 26.14 | 0.4111 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 16 QAM | 135@67 | 25.32 | 25.32 | 0.3404 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 16 QAM | 1@1 | 25.45 | 25.45 | 0.3508 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 16 QAM | 1@271 | 25.27 | 25.27 | 0.3365 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 64 QAM | 135@67 | 23.89 | 23.89 | 0.2449 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 64 QAM | 1@1 | 23.84 | 23.84 | 0.2421 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 64 QAM | 1@271 | 23.85 | 23.85 | 0.2427 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 256 QAM | 135@67 | 21.93 | 21.93 | 0.1560 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 256 QAM | 1@1 | 21.75 | 21.75 | 0.1496 |
| 77 | 30 | 100 | 650000 | 3750 | DFT-s-OFDM 256 QAM | 1@271 | 22.26 | 22.26 | 0.1683 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM QPSK | 137@68 | 24.65 | 24.65 | 0.2917 |



| | | | | | | | | | |
|----|----|-----|--------|------|----------------------|--------|-------|-------|--------|
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM QPSK | 1@1 | 25.01 | 25.01 | 0.3170 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM QPSK | 1@271 | 24.63 | 24.63 | 0.2904 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM PI/2 BPSK | 135@67 | 26.16 | 26.16 | 0.4130 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.2 | 26.2 | 0.4169 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM PI/2 BPSK | 1@271 | 25.35 | 25.35 | 0.3428 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK | 135@67 | 26.06 | 26.06 | 0.4036 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@1 | 26.1 | 26.1 | 0.4074 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK | 1@271 | 25.25 | 25.25 | 0.3350 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 135@67 | 24.88 | 24.88 | 0.3076 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@1 | 25.27 | 25.27 | 0.3365 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM | 1@271 | 24.35 | 24.35 | 0.2723 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM | 135@67 | 23.76 | 23.76 | 0.2377 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM | 1@1 | 23.79 | 23.79 | 0.2393 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM | 1@271 | 22.92 | 22.92 | 0.1959 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM | 135@67 | 22.37 | 22.37 | 0.1726 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM | 1@1 | 21.9 | 21.9 | 0.1549 |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM | 1@271 | 21.41 | 21.41 | 0.1384 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK | 137@68 | 24.21 | 24.21 | 0.2636 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK | 1@1 | 24.45 | 24.45 | 0.2786 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK | 1@271 | 23.64 | 23.64 | 0.2312 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 135@67 | 25.83 | 25.83 | 0.3828 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 1@1 | 25.58 | 25.58 | 0.3614 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 1@271 | 26.29 | 26.29 | 0.4256 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK | 135@67 | 25.71 | 25.71 | 0.3724 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK | 1@1 | 25.46 | 25.46 | 0.3516 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK | 1@271 | 26.19 | 26.19 | 0.4159 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 16 QAM | 135@67 | 24.68 | 24.68 | 0.2938 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 16 QAM | 1@1 | 24.61 | 24.61 | 0.2891 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 16 QAM | 1@271 | 25.36 | 25.36 | 0.3436 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 64 QAM | 135@67 | 23.41 | 23.41 | 0.2193 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 64 QAM | 1@1 | 23.15 | 23.15 | 0.2065 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 64 QAM | 1@271 | 23.88 | 23.88 | 0.2443 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 256 QAM | 135@67 | 22.07 | 22.07 | 0.1611 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 256 QAM | 1@1 | 21.49 | 21.49 | 0.1409 |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM 256 QAM | 1@271 | 22.3 | 22.3 | 0.1698 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK | 137@68 | 23.97 | 23.97 | 0.2495 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK | 1@1 | 23.87 | 23.87 | 0.2438 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK | 1@271 | 24.63 | 24.63 | 0.2904 |



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 | 0.0029 | PASS | NV |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0047 | PASS | LV |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0030 | PASS | HV |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0043 | PASS | -30°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0069 | PASS | -20°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0024 | PASS | -10°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0042 | PASS | 0°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0051 | PASS | 10°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0029 | PASS | 20°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0067 | PASS | 30°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0033 | PASS | 40°C |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 0.0062 | PASS | 50°C |



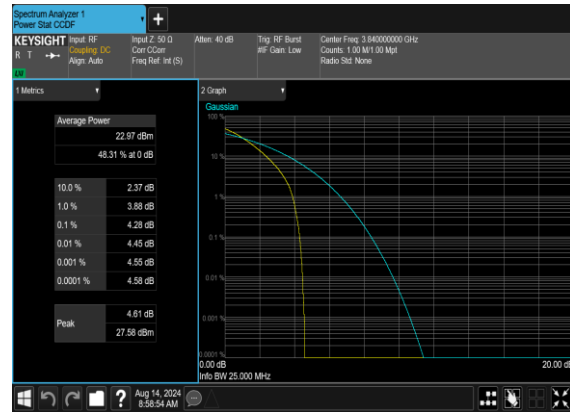
Peak to Average Ratio

| 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 | 3.66 | 13 | PASS |
| 77 | 30 | 20 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 50@0 | 4.28 | 13 | PASS |

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



N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH





Occupied Bandwidth

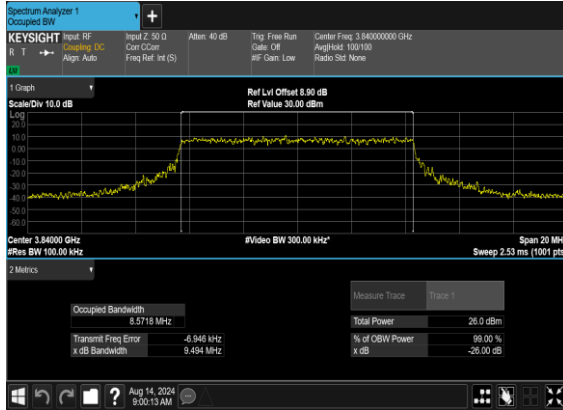
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | OBW (MHz) | 26dB BW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------------|
| 77 | 30 | 10 | 656000 | 3840.0 | CP-OFDM QPSK | 24@0 | 8.5718 | 9.494 |
| 77 | 30 | 10 | 656000 | 3840.0 | CP-OFDM 16 QAM | 24@0 | 8.5756 | 9.592 |
| 77 | 30 | 10 | 656000 | 3840.0 | CP-OFDM 64 QAM | 24@0 | 8.567 | 9.306 |
| 77 | 30 | 10 | 656000 | 3840.0 | CP-OFDM 256 QAM | 24@0 | 8.5835 | 9.644 |
| 77 | 30 | 15 | 656000 | 3840.0 | CP-OFDM QPSK | 38@0 | 13.614 | 14.9 |
| 77 | 30 | 15 | 656000 | 3840.0 | CP-OFDM 16 QAM | 38@0 | 13.584 | 14.57 |
| 77 | 30 | 15 | 656000 | 3840.0 | CP-OFDM 64 QAM | 38@0 | 13.572 | 14.55 |
| 77 | 30 | 15 | 656000 | 3840.0 | CP-OFDM 256 QAM | 38@0 | 13.555 | 14.88 |
| 77 | 30 | 20 | 656000 | 3840.0 | CP-OFDM QPSK | 51@0 | 18.193 | 19.49 |
| 77 | 30 | 20 | 656000 | 3840.0 | CP-OFDM 16 QAM | 51@0 | 18.184 | 19.32 |
| 77 | 30 | 20 | 656000 | 3840.0 | CP-OFDM 64 QAM | 51@0 | 18.151 | 19.43 |
| 77 | 30 | 20 | 656000 | 3840.0 | CP-OFDM 256 QAM | 51@0 | 18.186 | 19.46 |
| 77 | 30 | 25 | 656000 | 3840.0 | CP-OFDM QPSK | 65@0 | 23.149 | 24.66 |
| 77 | 30 | 25 | 656000 | 3840.0 | CP-OFDM 16 QAM | 65@0 | 23.189 | 24.29 |
| 77 | 30 | 25 | 656000 | 3840.0 | CP-OFDM 64 QAM | 65@0 | 23.211 | 24.71 |
| 77 | 30 | 25 | 656000 | 3840.0 | CP-OFDM 256 QAM | 65@0 | 23.235 | 24.96 |
| 77 | 30 | 30 | 656000 | 3840.0 | CP-OFDM QPSK | 78@0 | 27.886 | 28.98 |
| 77 | 30 | 30 | 656000 | 3840.0 | CP-OFDM 16 QAM | 78@0 | 27.809 | 28.89 |
| 77 | 30 | 30 | 656000 | 3840.0 | CP-OFDM 64 QAM | 78@0 | 27.846 | 29.1 |
| 77 | 30 | 30 | 656000 | 3840.0 | CP-OFDM 256 QAM | 78@0 | 27.789 | 29.0 |
| 77 | 30 | 40 | 656000 | 3840.0 | CP-OFDM QPSK | 106@0 | 37.8 | 39.25 |
| 77 | 30 | 40 | 656000 | 3840.0 | CP-OFDM 16 QAM | 106@0 | 37.804 | 39.59 |
| 77 | 30 | 40 | 656000 | 3840.0 | CP-OFDM 64 QAM | 106@0 | 37.865 | 39.49 |
| 77 | 30 | 40 | 656000 | 3840.0 | CP-OFDM 256 QAM | 106@0 | 37.885 | 39.48 |
| 77 | 30 | 50 | 656000 | 3840.0 | CP-OFDM QPSK | 133@0 | 47.445 | 49.35 |
| 77 | 30 | 50 | 656000 | 3840.0 | CP-OFDM 16 QAM | 133@0 | 47.562 | 49.53 |
| 77 | 30 | 50 | 656000 | 3840.0 | CP-OFDM 64 QAM | 133@0 | 47.478 | 49.01 |
| 77 | 30 | 50 | 656000 | 3840.0 | CP-OFDM 256 QAM | 133@0 | 47.464 | 49.53 |
| 77 | 30 | 60 | 656000 | 3840.0 | CP-OFDM QPSK | 162@0 | 57.877 | 60.06 |
| 77 | 30 | 60 | 656000 | 3840.0 | CP-OFDM 16 QAM | 162@0 | 57.961 | 59.87 |
| 77 | 30 | 60 | 656000 | 3840.0 | CP-OFDM 64 QAM | 162@0 | 57.758 | 59.98 |
| 77 | 30 | 60 | 656000 | 3840.0 | CP-OFDM 256 QAM | 162@0 | 57.831 | 59.98 |



| | | | | | | | | |
|----|----|-----|--------|--------|--------------------|-------|--------|-------|
| 77 | 30 | 70 | 656000 | 3840.0 | CP-OFDM QPSK | 189@0 | 67.347 | 69.82 |
| 77 | 30 | 70 | 656000 | 3840.0 | CP-OFDM 16 QAM | 189@0 | 67.433 | 69.75 |
| 77 | 30 | 70 | 656000 | 3840.0 | CP-OFDM 64 QAM | 189@0 | 67.712 | 69.66 |
| 77 | 30 | 70 | 656000 | 3840.0 | CP-OFDM 256 QAM | 189@0 | 67.313 | 69.69 |
| 77 | 30 | 80 | 656000 | 3840.0 | CP-OFDM QPSK | 217@0 | 77.458 | 79.92 |
| 77 | 30 | 80 | 656000 | 3840.0 | CP-OFDM 16 QAM | 217@0 | 77.458 | 79.92 |
| 77 | 30 | 80 | 656000 | 3840.0 | CP-OFDM 64 QAM | 217@0 | 77.363 | 79.99 |
| 77 | 30 | 80 | 656000 | 3840.0 | CP-OFDM 256 QAM | 217@0 | 77.479 | 79.88 |
| 77 | 30 | 90 | 656000 | 3840.0 | CP-OFDM QPSK | 245@0 | 87.596 | 90.21 |
| 77 | 30 | 90 | 656000 | 3840.0 | CP-OFDM 16 QAM | 245@0 | 87.481 | 90.45 |
| 77 | 30 | 90 | 656000 | 3840.0 | CP-OFDM 64 QAM | 245@0 | 87.49 | 90.21 |
| 77 | 30 | 90 | 656000 | 3840.0 | CP-OFDM 256 QAM | 245@0 | 87.39 | 90.12 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM QPSK | 273@0 | 97.718 | 100.6 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM 16 QAM | 273@0 | 97.358 | 100.6 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM 64 QAM | 273@0 | 97.593 | 100.5 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM 256 QAM | 273@0 | 97.381 | 100.6 |



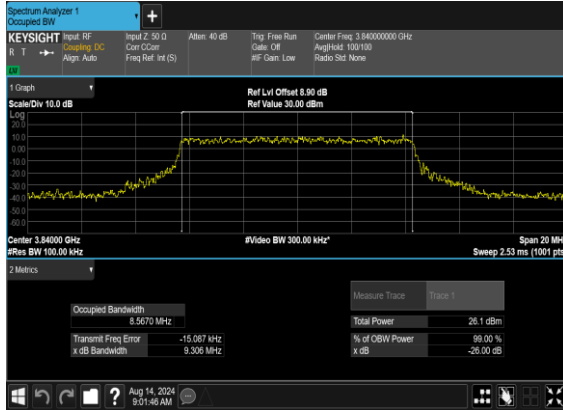
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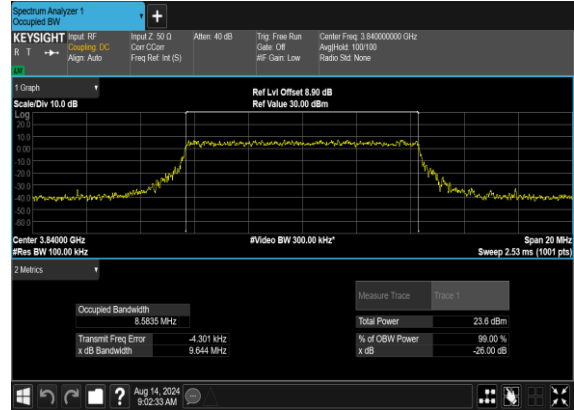
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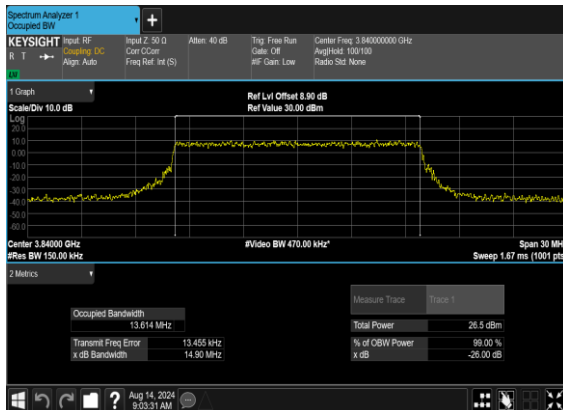
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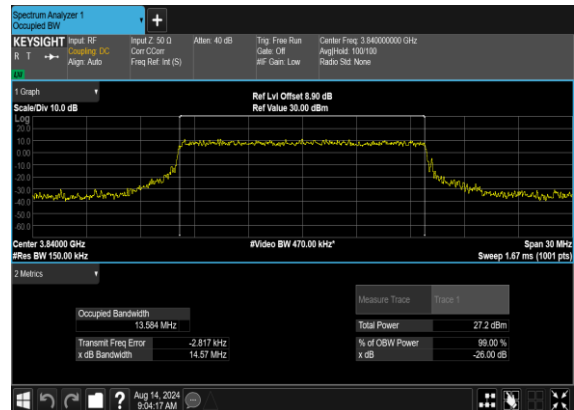
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N77(15M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



N77(15M)_CP-OFDM_16QAM_Outer_Full_Mid_CH

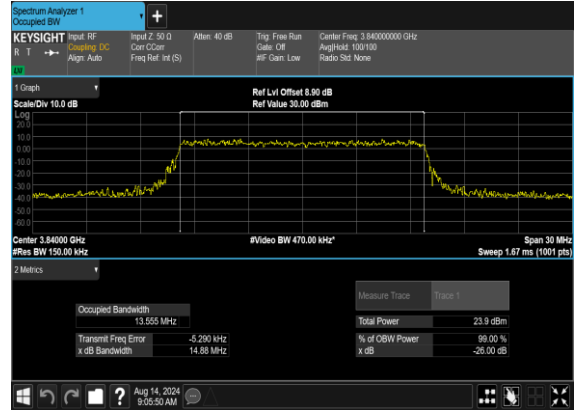




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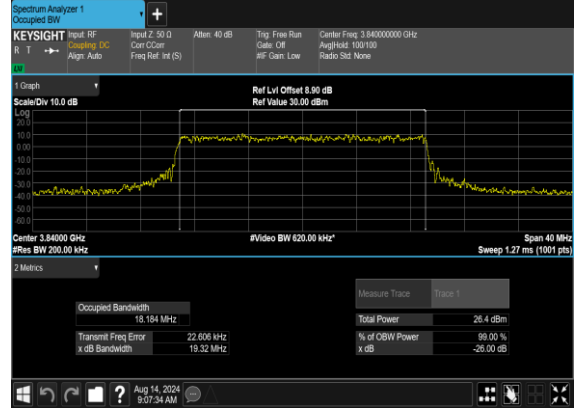
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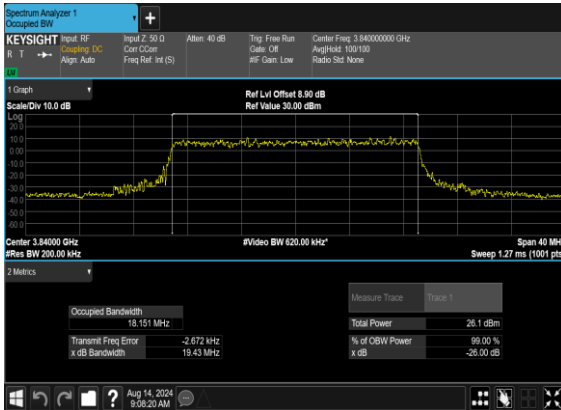
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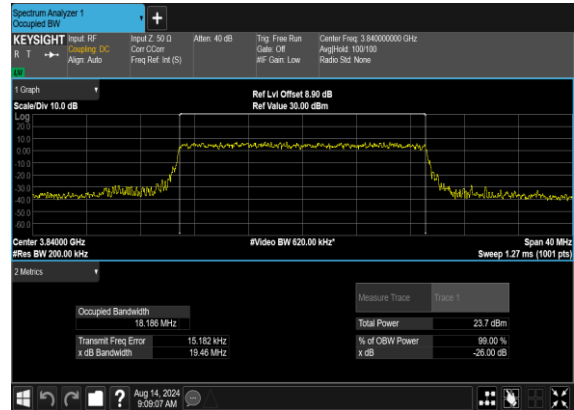
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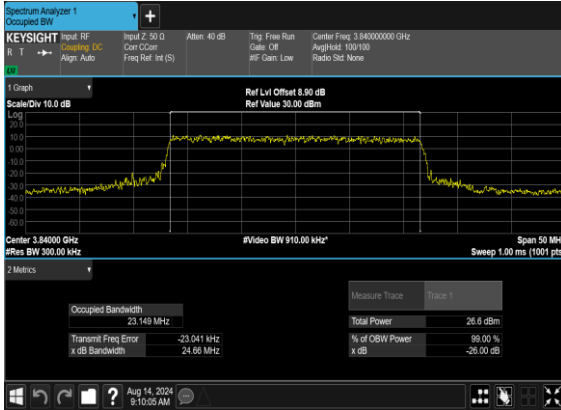


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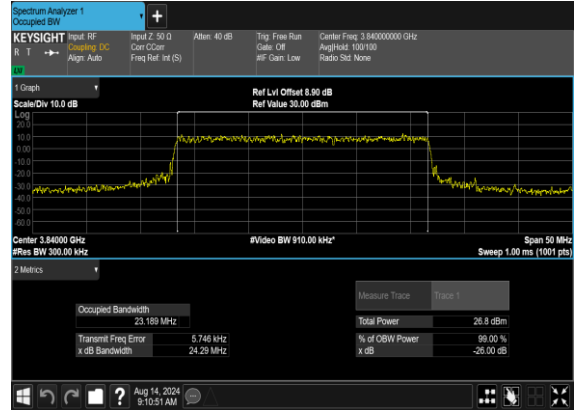




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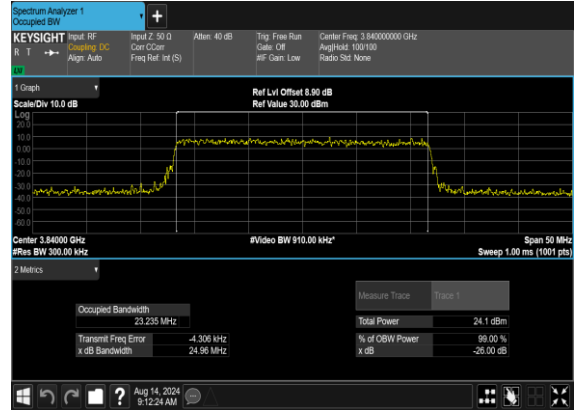
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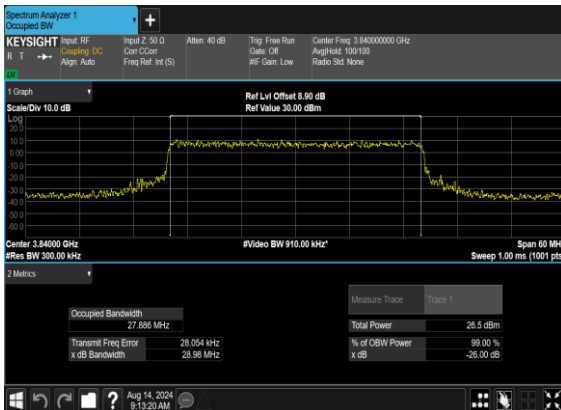
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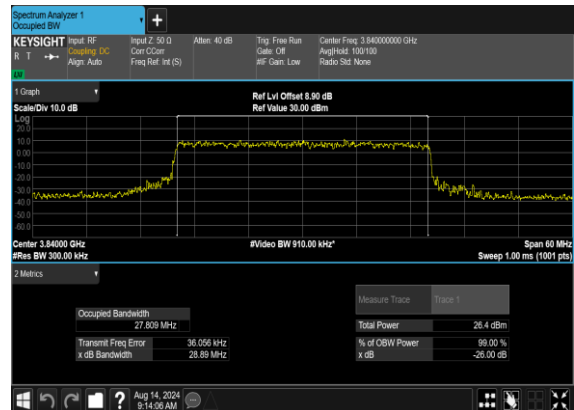
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N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH



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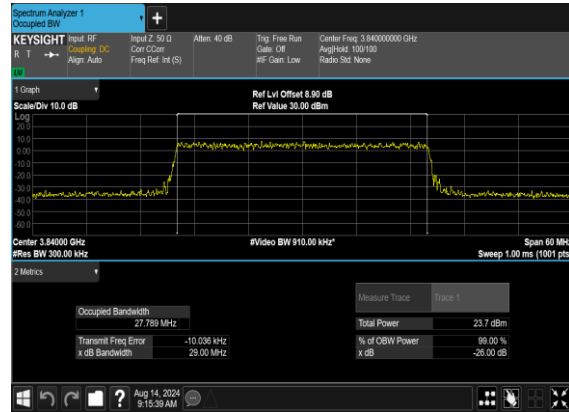




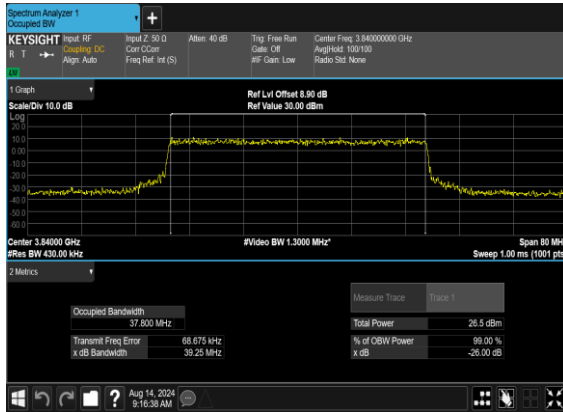
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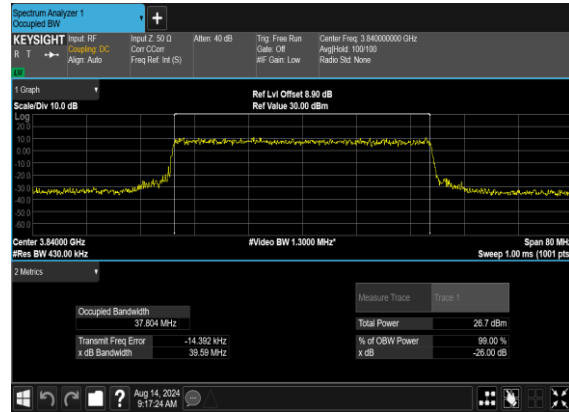
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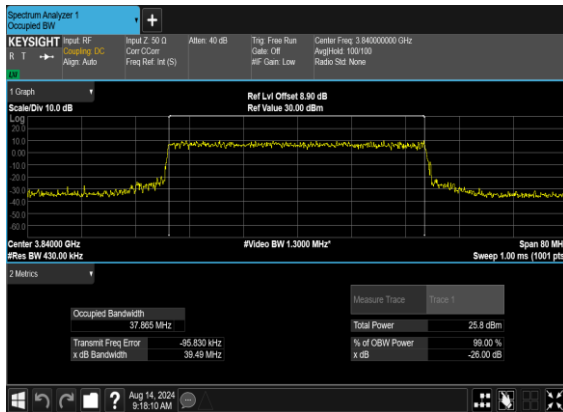
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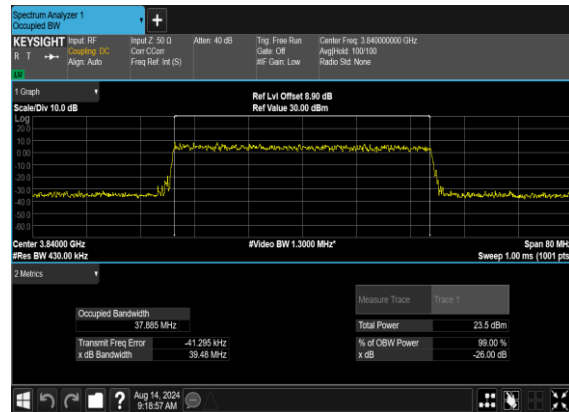
N77(40M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

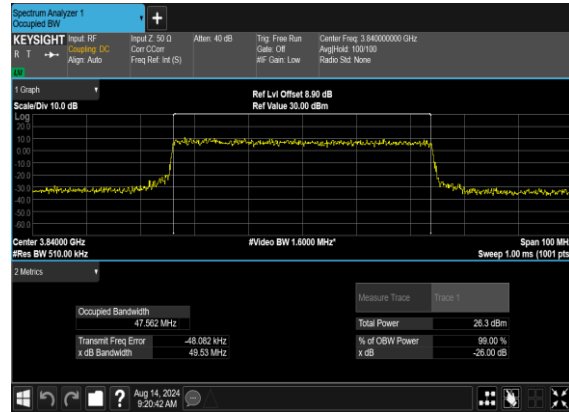




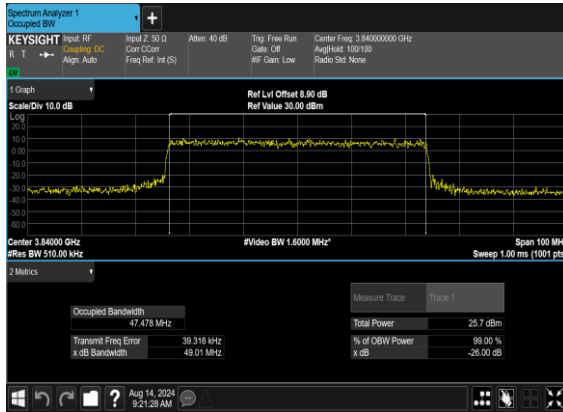
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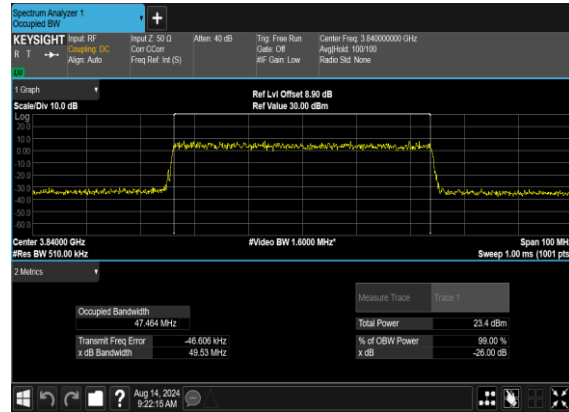
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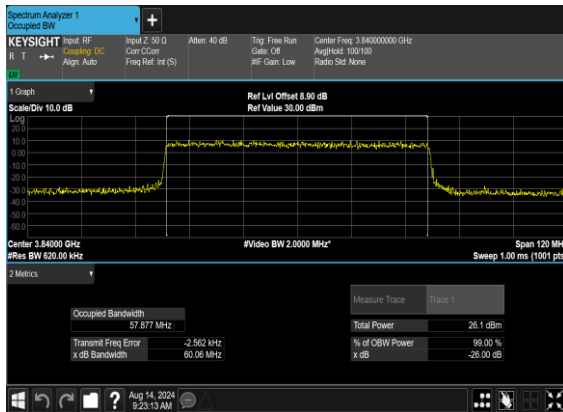
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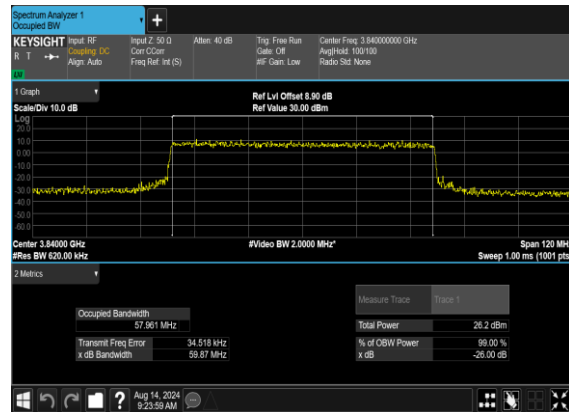
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N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

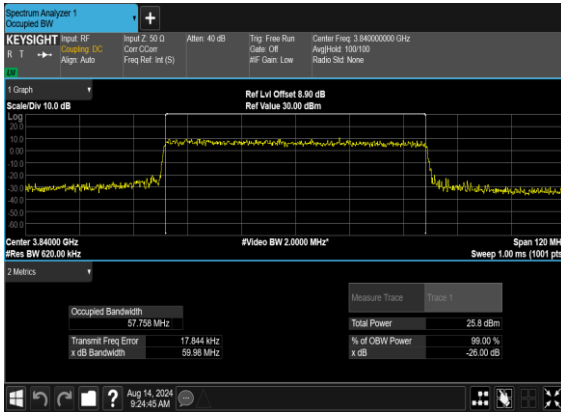


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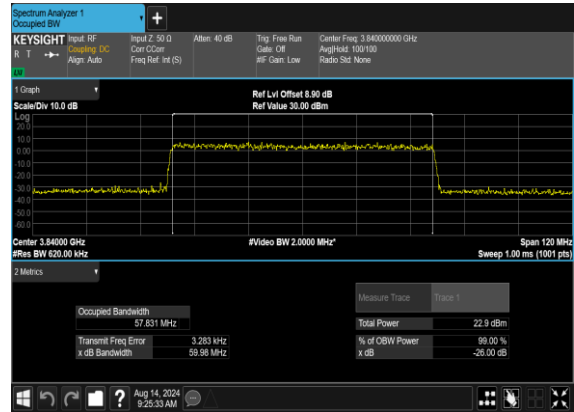




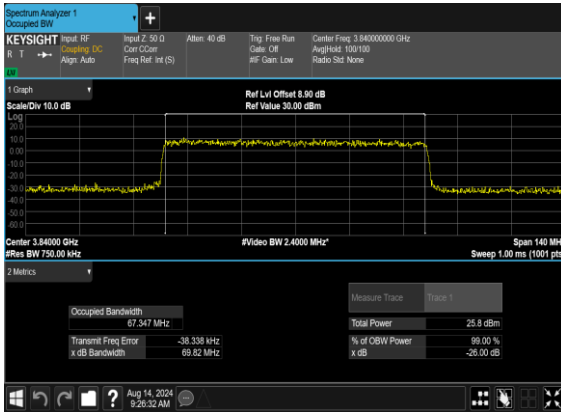
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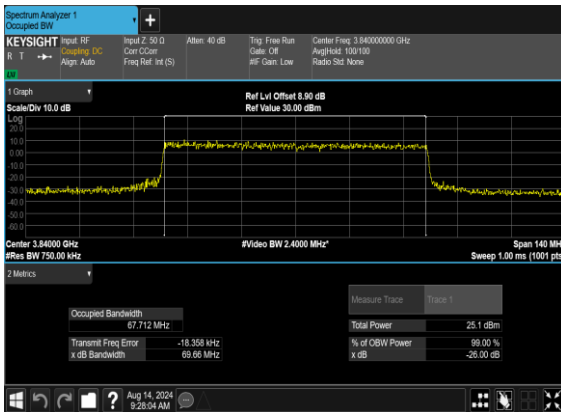
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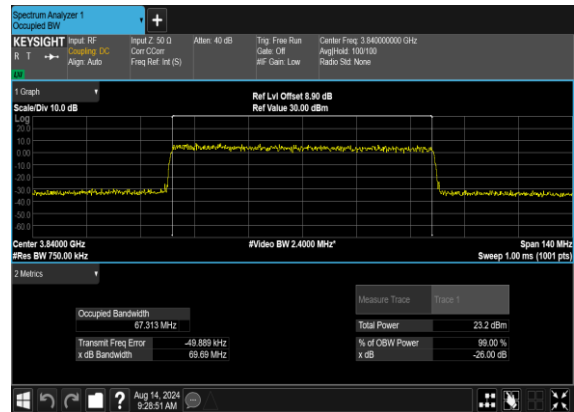
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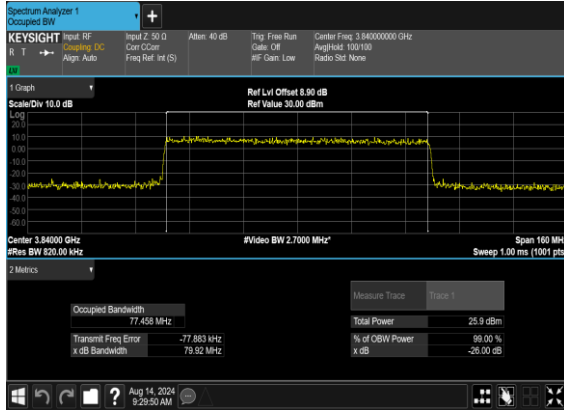


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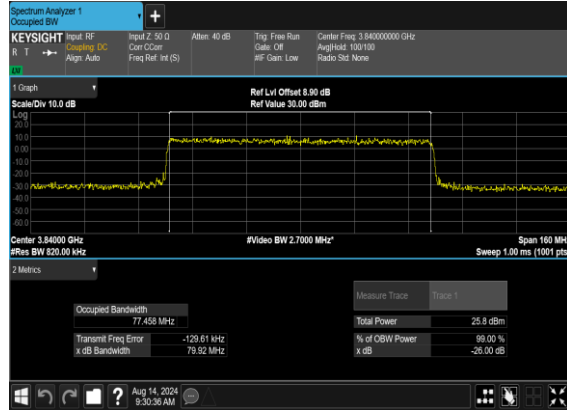




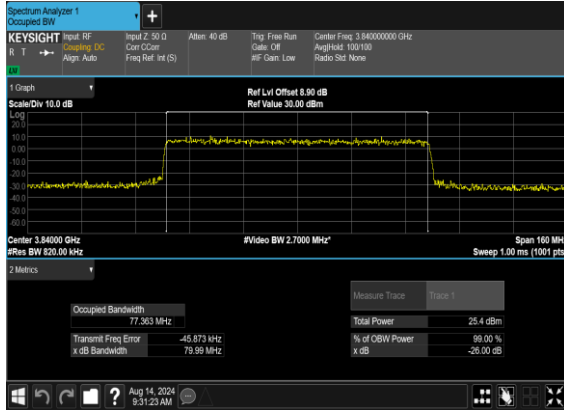
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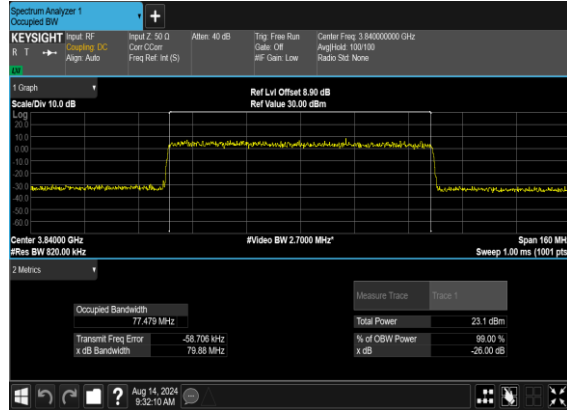
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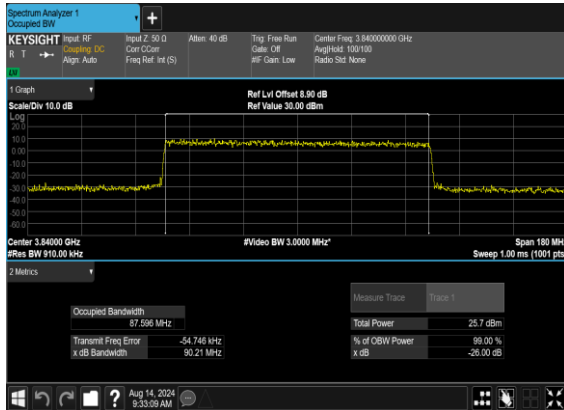
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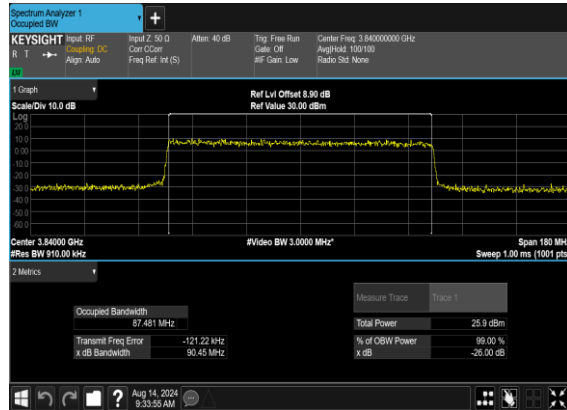
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N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

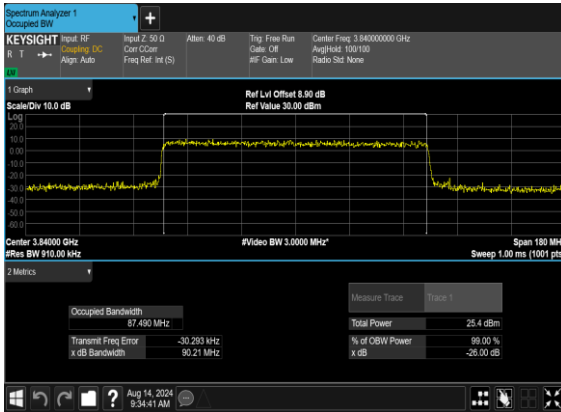


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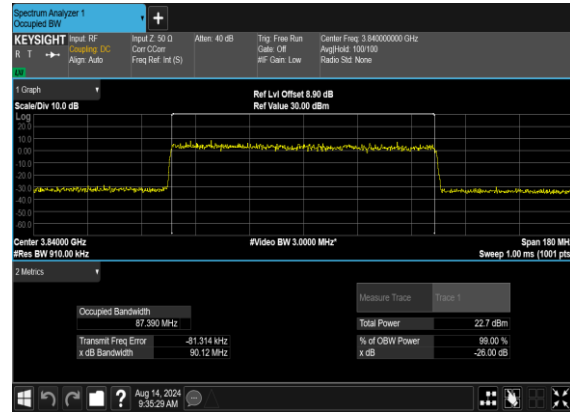




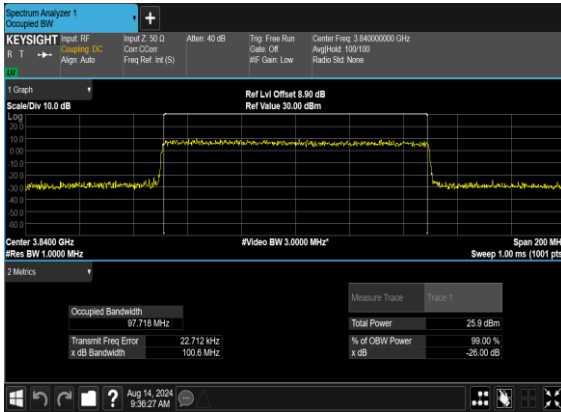
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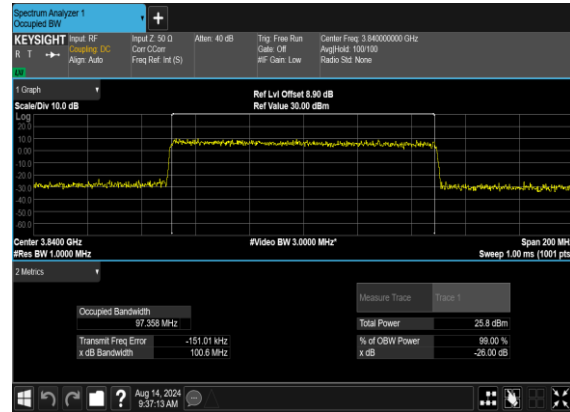
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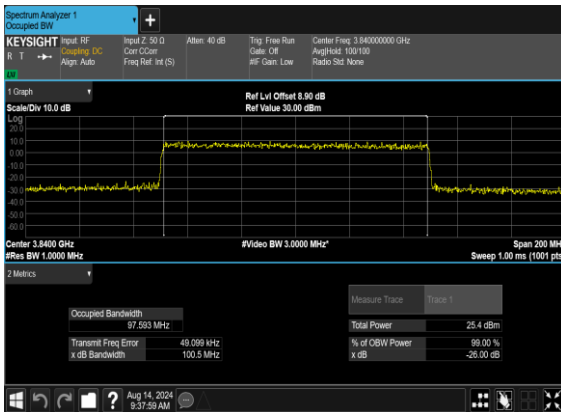
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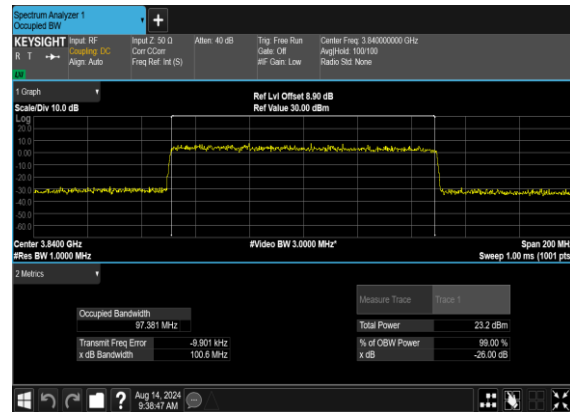
N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH



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 | 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 |



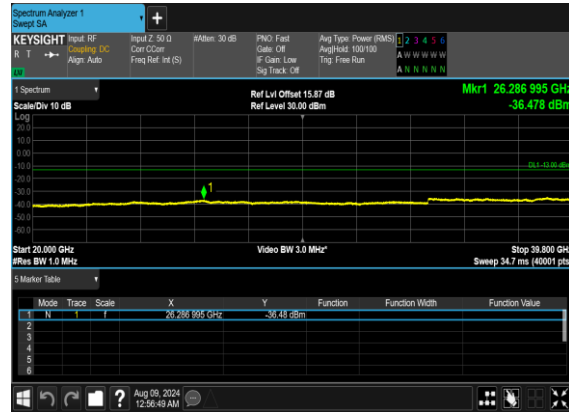
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|----|----|-----|--------|--------|-----------------|-----|-----------|-------------|
| 77 | 30 | 100 | 656000 | 3840.0 | DFT-s-OFDM BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 1@0 | see graph | --- |
| 77 | 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 | --- |
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| 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



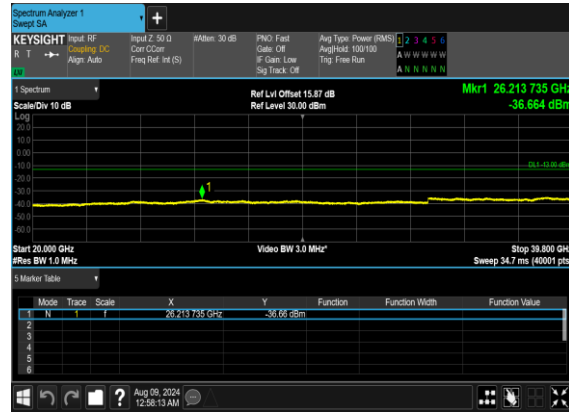
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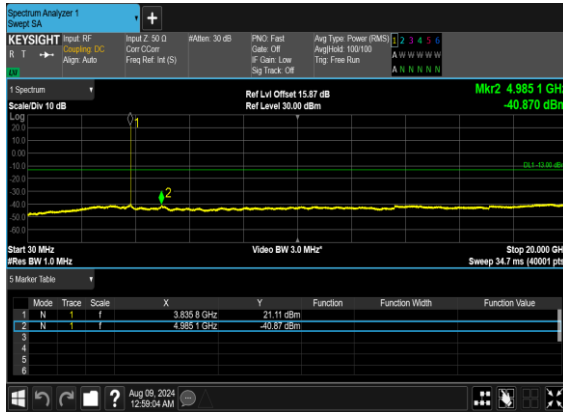
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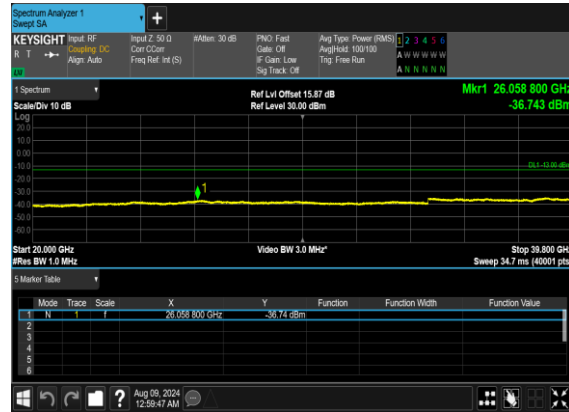
N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

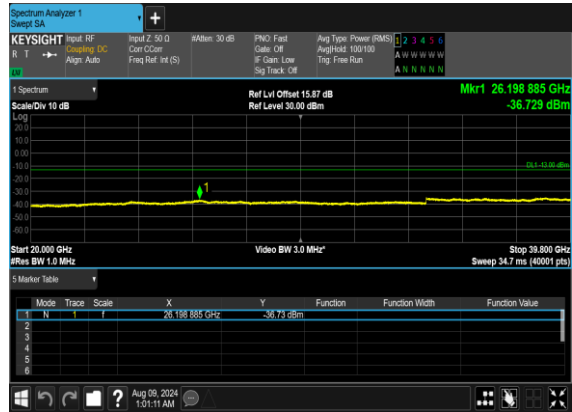




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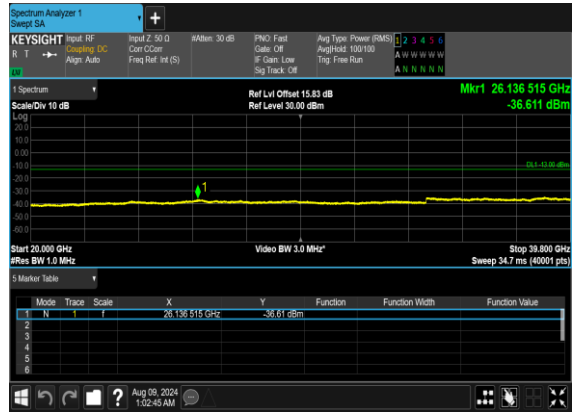
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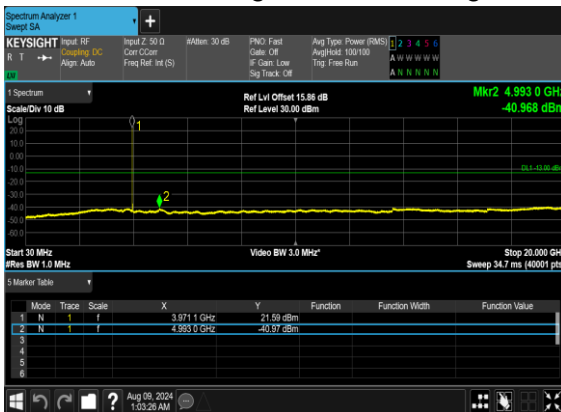
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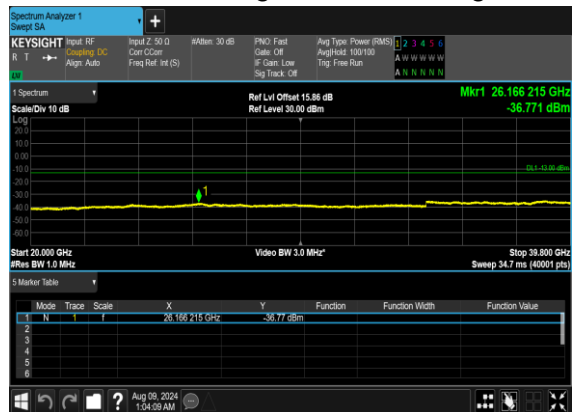
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N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

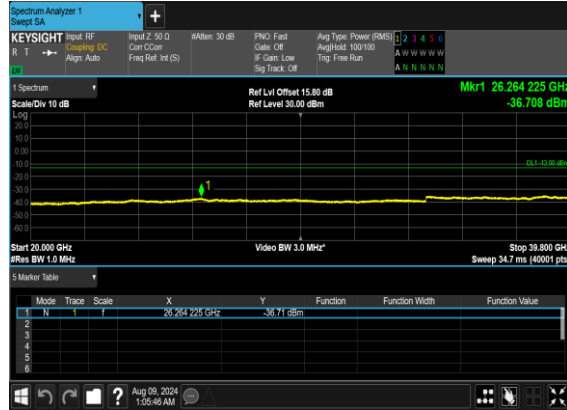




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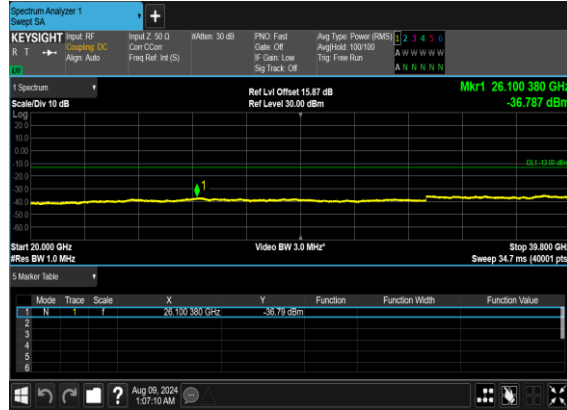
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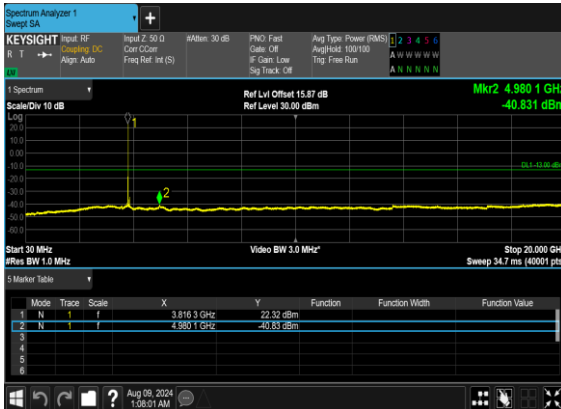
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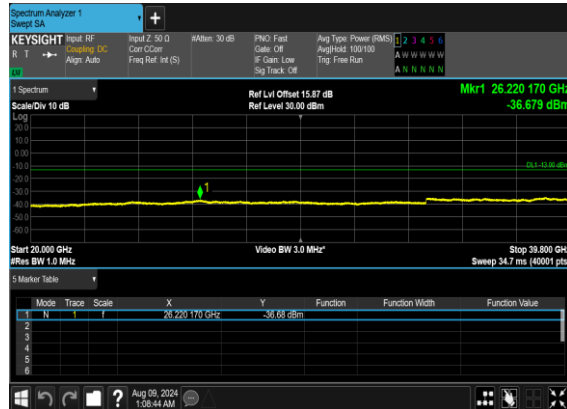
N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

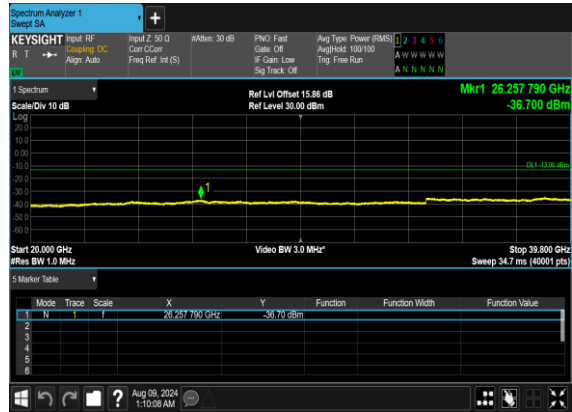




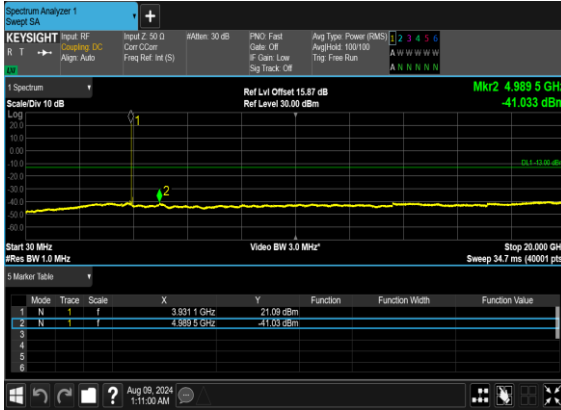
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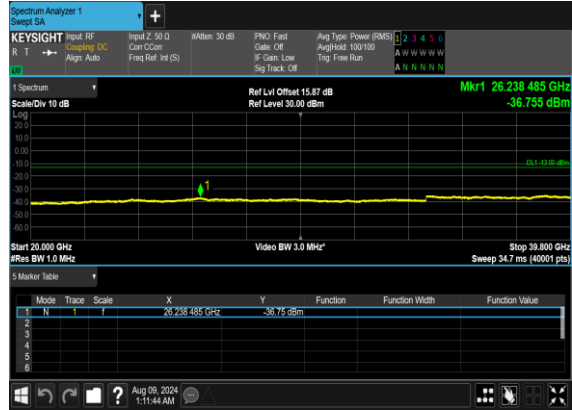
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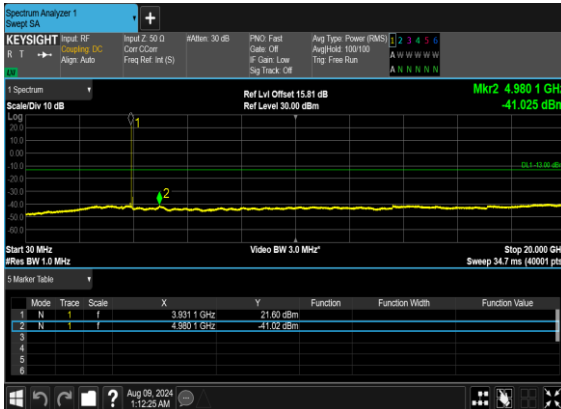
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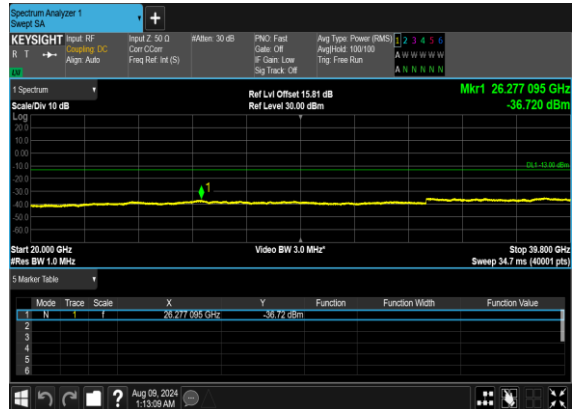
N77(50M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH

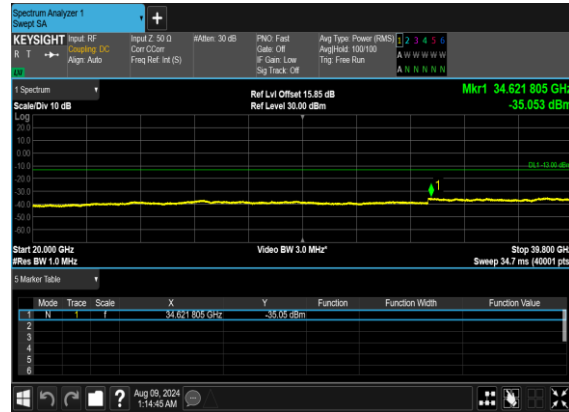




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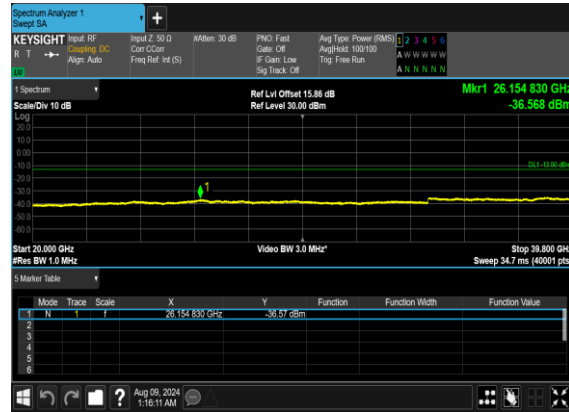
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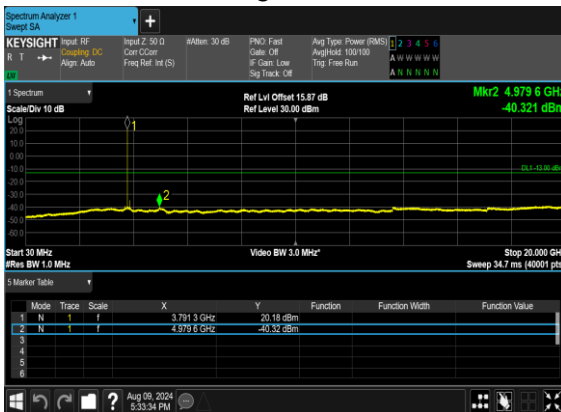
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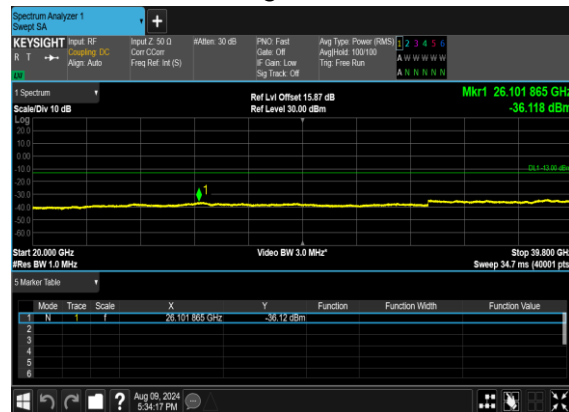
N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

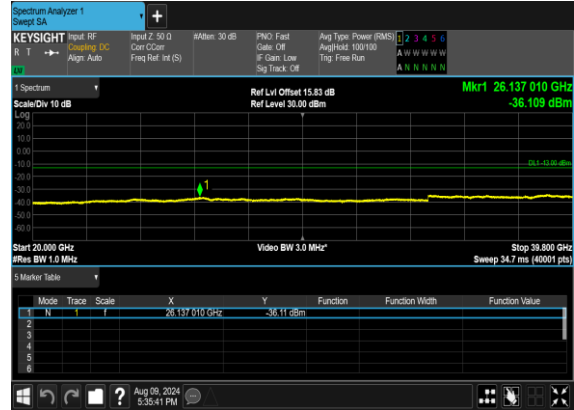




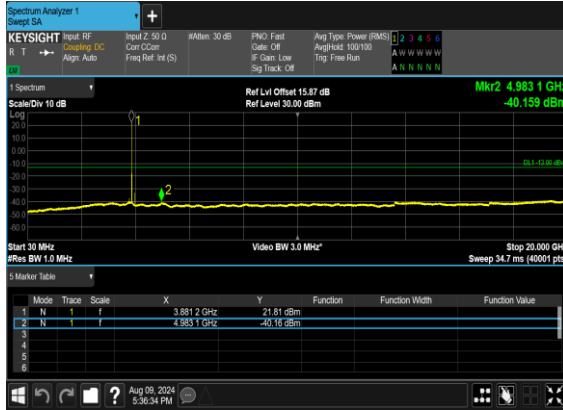
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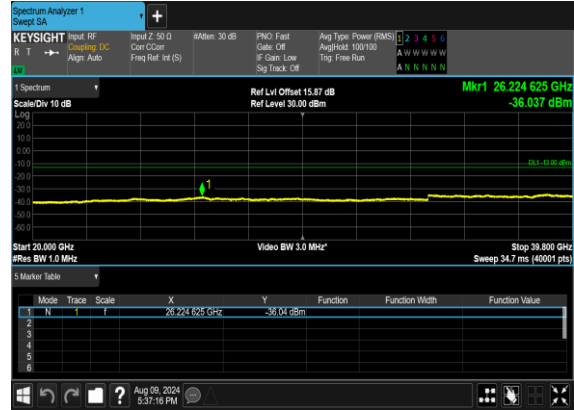
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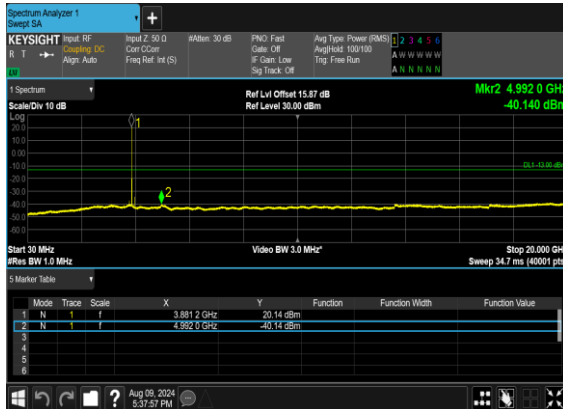
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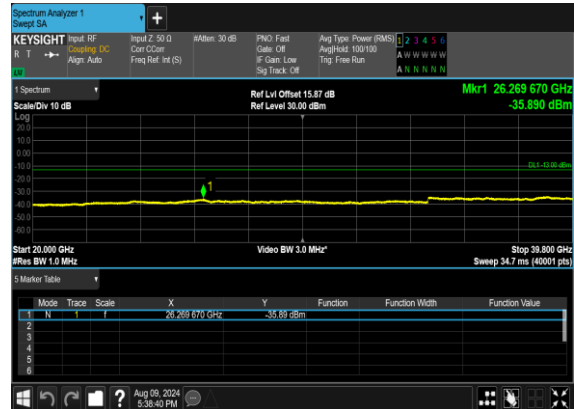
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH





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 |