FCC RF Test Report

APPLICANT	**:**	**Xiaomi Communications Co., Ltd.**
EQUIPMENT	**:**	**Mobile Phone**
BRAND NAME	**:**	**Xiaomi**
MODEL NAME	**:**	**2506BPN68G**
FCC ID	**:**	**2AFZZPN68G**
STANDARD	**:**	**47 CFR Part 27 Subpart Q**
CLASSIFICATION	**:**	**PCS Licensed Transmitter Held to Ear (PCE)**
TEST DATE(S)	**:**	**May 07, 2025 ~ May 12, 2025**

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.

Fly Liang

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Approved by: Fly Liang

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People's Republic of China

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FCC ID : 2AFZZPN68G

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG542529Q	Rev. 01	Initial issue of report	Jun. 11, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 26.30 dB at 5177.00 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.

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1　General Description

1.1　Applicant

Xiaomi Communications Co., Ltd.

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

1.2　Manufacturer

Xiaomi Communications Co., Ltd.

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

1.3　Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2506BPN68G
FCC ID	2AFZZPN68G
IMEI Code	Conducted : 864724070062526/864724070062534 Radiation : 864724070060165/864724070060173
HW Version	1351P2404
SW Version	Xiaomi HyperOS 2.0
EUT Stage	Identical Prototype

1.4　Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 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: -1.9 dBi 5G NR n78: -1.9 dBi **<Ant. 7>** 5G NR n77: -2.6 dBi 5G NR n78: -2.6 dBi **<Ant. 8>** 5G NR n77: -2.15 dBi 5G NR n78: -2.15 dBi **<Ant. 9>** 5G NR n77: -2.0 dBi 5G NR n78: -2.0 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

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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/n78 for Antenna 6.
2. For 5G NR n77/n78, only the test data of Ant.6 are showed in the report according to the maximum conducted power for conducted test items.
3. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode by referring to the higher conducted power for conducted test items.
4. The device supports HPUE mode for 5G NR n77/n78.
5. All the supported EN-DC combinations are verified conducted power, only the EN-DC combination with highest power are shown in the report.
6. The EN-DC mode combination could be referred to the product spec.

1.5 Modification of EUT

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

1.6 Maximum EIRP Power and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.2477	8M55G7D	0.1845	8M60W7D
15	3457.50 ~ 3542.49	0.2377	13M6G7D	0.1905	13M6W7D
20	3460.02 ~ 3540.00	0.2500	18M2G7D	0.1936	18M2W7D
25	3462.51 ~ 3537.48	0.2438	23M2G7D	0.1950	23M3W7D
30	3465.00 ~ 3534.99	0.2432	27M9G7D	0.1932	27M9W7D
40	3470.01 ~ 3529.98	0.2404	37M8G7D	0.1905	38M0W7D
50	3475.02 ~ 3525.00	0.2393	47M4G7D	0.1905	47M6W7D
60	3480.00 ~ 3519.99	0.2472	57M7G7D	0.1991	57M9W7D
70	3485.01 ~ 3514.98	0.2576	67M5G7D	0.1959	67M6W7D
80	3490.02 ~ 3510.00	0.2449	77M6G7D	0.1995	77M6W7D
90	3495.00 ~ 3504.99	0.2576	87M5G7D	0.1982	87M6W7D
100	3500.01	0.2582	97M4G7D	0.1968	97M5W7D

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5G NR n78 SA		PI/2 BPSK / QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3455.01 ~ 3544.98	0.3048	8M60G7D	0.2339	8M57W7D
15	3457.50 ~ 3542.49	0.3020	13M6G7D	0.2443	13M6W7D
20	3460.02 ~ 3540.00	0.3090	18M2G7D	0.2477	18M3W7D
25	3462.51 ~ 3537.48	0.3097	23M2G7D	0.2472	23M2W7D
30	3465.00 ~ 3534.99	0.3069	27M8G7D	0.2432	27M9W7D
40	3470.01 ~ 3529.98	0.3034	37M9G7D	0.2438	37M8W7D
50	3475.02 ~ 3525.00	0.3069	47M4G7D	0.2410	47M5W7D
60	3480.00 ~ 3519.99	0.3041	57M7G7D	0.2506	57M8W7D
70	3485.01 ~ 3514.98	0.3034	67M5G7D	0.2518	67M5W7D
80	3490.02 ~ 3510.00	0.3141	77M4G7D	0.2518	77M6W7D
90	3495.00 ~ 3504.99	0.3170	87M5G7D	0.2541	87M5W7D
100	3500.01	0.3177	97M5G7D	0.2427	97M6W7D

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

1.7 Testing Site

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	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.
	TH01-SZ 03CH02-SZ	CN1256	421272

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1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

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

- 47 CFR Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2   Test Configuration of Equipment Under Test

2.1 Test Mode

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

D01 Power Meas. License Digital Systems v03r01 with maximum output power.
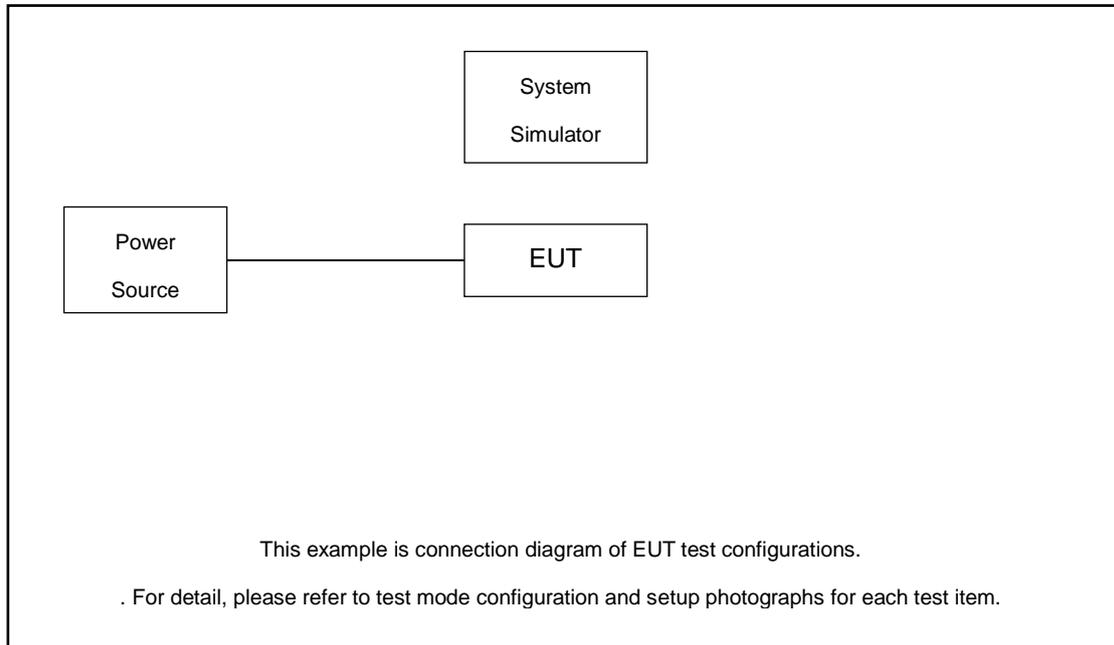
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to

find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n77	20M	PI/2 BPSK, QPSK	Full RB	M
	5G n78	20M	PI/2 BPSK, QPSK	Full RB	M
E.I.R.P	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	All Modulations	1RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n77	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
	5G n78	10M, 15M, 20M, 25M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
	5G n78	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n77	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
	5G n78	10M, 50M, 100M	PI/2 BPSK, QPSK	1RB	L, M, H
Frequency Stability	5G n77	20M	QPSK	Full RB	M
	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:
1. 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.
2. Frequency Stability: Normal Voltage = 3.93V ; Low Voltage =3.70V.; High Voltage =4.30V.

2.2 Connection Diagram of Test System

This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	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 :

Offset(dB) = RF cable loss(dB).

$$= 8.9(dB)$$

2.5 Frequency List of Low/Middle/High Channels

BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
	5G n77/n78 Channel and Frequency List			
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
25	Channel	630834	633334	635832
	Frequency	3462.51	3500.01	3537.48
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636166
	Frequency	3457.5	3500.01	3542.49
10	Channel	630334	633334	636332
	Frequency	3455.01	3500.01	3544.98

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3 Conducted Test Items

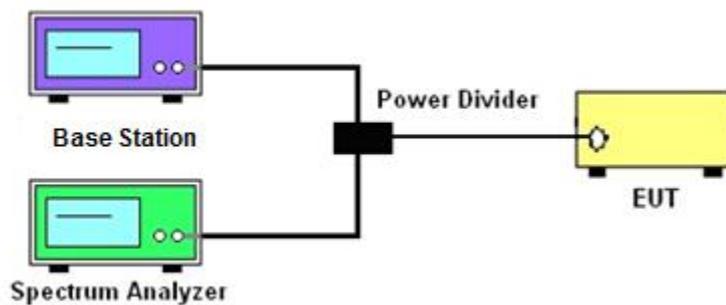## 3.1 Measuring Instruments

See list of measuring instruments of this test report.
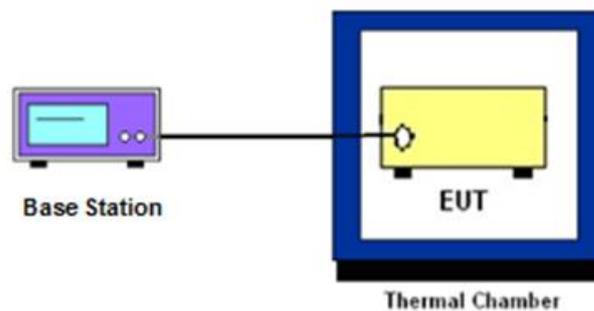
3.2 Test Setup

3.2.1 Conducted Output Power
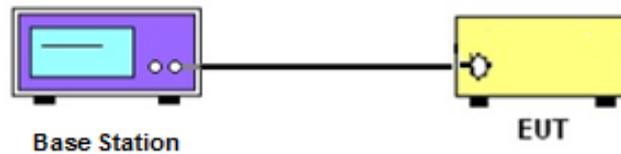
3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission

3.2.3 Frequency Stability

3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1   Description of the Conducted Output Power Measurement

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

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.

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3.6 EIRP

3.6.1   Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in

these bands must employ a means for limiting power to the minimum necessary for

successful communications

3.6.2   Test Procedures

1.   According to KDB 412172 D01 Power Approach,

2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 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.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

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 band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

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3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

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

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 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.

3.10.3 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±5°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.
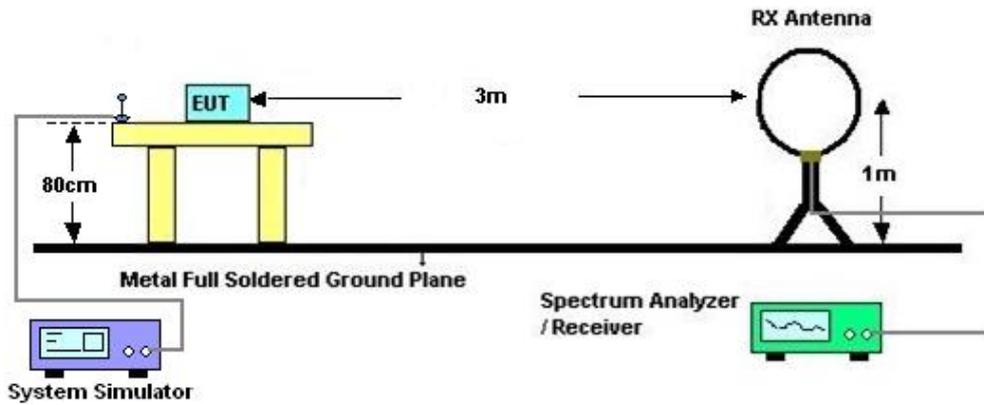5. The variation in frequency was measured for the worst case.
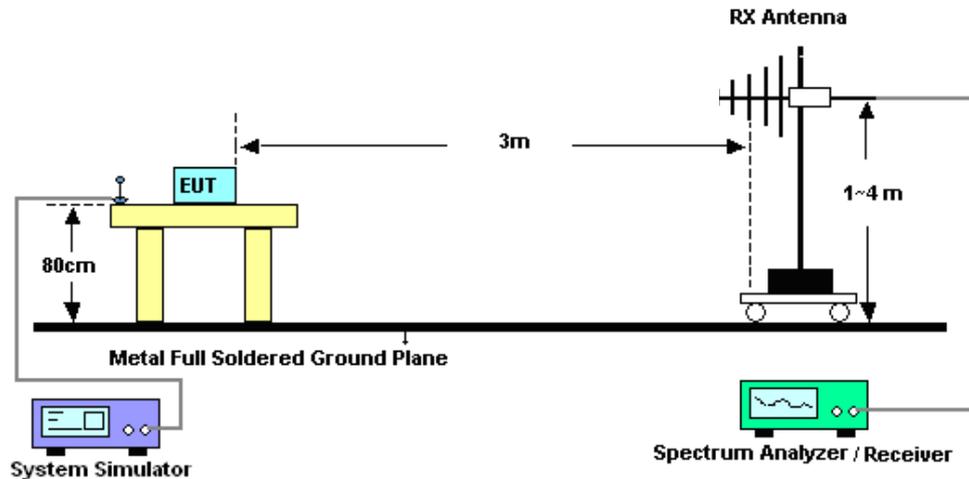
4   Radiated Test Items

4.1 Measuring Instruments

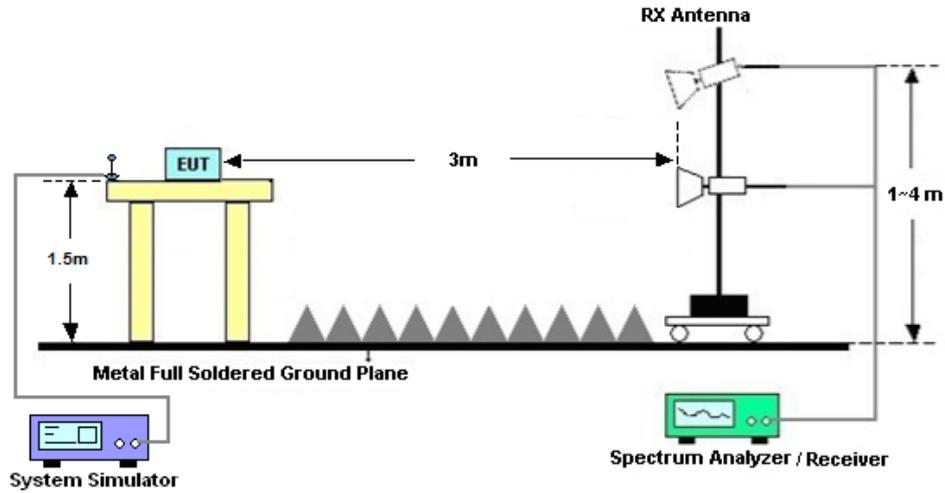See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1   For radiated test below 30MHz

4.2.2   For radiated test from 30MHz to 1GHz

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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 Measurement

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 shall not exceed −13 dBm/MHz.

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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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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. 02, 2025	May 07, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 14, 2024	May 07, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.0077	0.4GHz~26.5GHz	Dec. 24, 2024	May 07, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 03, 2024	May 07, 2025	Jul. 02, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	May 11, 2025~ May 12, 2025	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 11, 2025~ May 12, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Oct. 24, 2023	May 11, 2025~ May 12, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	May 11, 2025~ May 12, 2025	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 11, 2025~ May 12, 2025	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 11, 2025~ May 12, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2024	May 11, 2025~ May 12, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	May 11, 2025~ May 12, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	May 11, 2025~ May 12, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 11, 2025~ May 12, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 11, 2025~ May 12, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

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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))	2.47 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72 dB

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

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Appendix A. Test Results of Conducted Test

Test Engineer :	Khan Zhen	Temperature :	22~23℃
		Relative Humidity :	40~42%

Software Version: 23.06.1602

FR1 N77(ANT6)

Transmitter Conducted Output Power And EIRP, (G$_T$ - L$_C$)=-1.9dBi

NR Band	SCS	Band Width	Arfcn	Freq (MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	25.67	23.77	0.2382
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	25.35	23.45	0.2213
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	25.84	23.94	0.2477
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	24.55	22.65	0.1841
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	24.48	22.58	0.1811
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	24.56	22.66	0.1845
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	25.06	23.16	0.2070
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.29	23.39	0.2183
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	24.9	23	0.1995
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	24.12	22.22	0.1667
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.18	22.28	0.1690
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	24.06	22.16	0.1644
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	24.63	22.73	0.1875
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	24.6	22.7	0.1862
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	24.45	22.55	0.1799
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	23.61	21.71	0.1483
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	23.54	21.64	0.1459
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	23.49	21.59	0.1442
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	25.66	23.76	0.2377
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	25.38	23.48	0.2228
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	25.58	23.68	0.2333
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	24.7	22.8	0.1905
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	24.52	22.62	0.1828
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	24.69	22.79	0.1901
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	25.14	23.24	0.2109
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.36	23.46	0.2218
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	25.06	23.16	0.2070
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	24.2	22.3	0.1698
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.22	22.32	0.1706
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	23.89	21.99	0.1581
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	24.6	22.7	0.1862
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	24.46	22.56	0.1803

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77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	24.7	22.8	0.1905
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	23.69	21.79	0.1510
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	23.64	21.74	0.1493
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	23.53	21.63	0.1455
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	25.7	23.8	0.2399
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	25.41	23.51	0.2244
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.88	23.98	0.2500
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	24.77	22.87	0.1936
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	24.46	22.56	0.1803
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	24.55	22.65	0.1841
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	25.16	23.26	0.2118
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.11	23.21	0.2094
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	24.8	22.9	0.1950
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	24.25	22.35	0.1718
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.25	22.35	0.1718
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	23.94	22.04	0.1600
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	24.7	22.8	0.1905
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	24.63	22.73	0.1875
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	24.65	22.75	0.1884
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	23.7	21.8	0.1514
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	23.52	21.62	0.1452
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	23.44	21.54	0.1426
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	32@16	25.77	23.87	0.2438
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	25.6	23.7	0.2344
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@63	25.69	23.79	0.2393
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	32@16	24.8	22.9	0.1950
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	24.55	22.65	0.1841
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@63	24.48	22.58	0.1811
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	32@16	25.18	23.28	0.2128
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.49	23.59	0.2286
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@63	24.79	22.89	0.1945
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	32@16	24.22	22.32	0.1706
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.39	22.49	0.1774
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	1@63	23.83	21.93	0.1560
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	32@16	24.71	22.81	0.1910
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	24.65	22.75	0.1884
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@63	24.66	22.76	0.1888
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	32@16	23.75	21.85	0.1531
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	23.65	21.75	0.1496

77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@63	23.54	21.64	0.1459
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	25.72	23.82	0.2410
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	25.76	23.86	0.2432
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.42	23.52	0.2249
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	24.76	22.86	0.1932
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	24.65	22.75	0.1884
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	24.47	22.57	0.1807
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	25.16	23.26	0.2118
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.41	23.51	0.2244
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	24.76	22.86	0.1932
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	24.18	22.28	0.1690
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.48	22.58	0.1811
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	23.89	21.99	0.1581
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	24.67	22.77	0.1892
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	24.75	22.85	0.1928
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	24.57	22.67	0.1849
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	23.67	21.77	0.1503
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	23.8	21.9	0.1549
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	23.69	21.79	0.1510
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	25.71	23.81	0.2404
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	25.57	23.67	0.2328
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.23	23.33	0.2153
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	24.7	22.8	0.1905
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	24.58	22.68	0.1854
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	24.25	22.35	0.1718
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	25.14	23.24	0.2109
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.45	23.55	0.2265
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	24.79	22.89	0.1945
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	24.2	22.3	0.1698
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.52	22.62	0.1828
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	23.71	21.81	0.1517
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	24.79	22.89	0.1945
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	25.09	23.19	0.2084
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	24.64	22.74	0.1879
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	23.82	21.92	0.1556
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	24.18	22.28	0.1690
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	23.68	21.78	0.1507
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.69	23.79	0.2393
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	25.61	23.71	0.2350

77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.31	23.41	0.2193
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	24.68	22.78	0.1897
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	24.59	22.69	0.1858
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	24.08	22.18	0.1652
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	25.23	23.33	0.2153
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.61	23.71	0.2350
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	24.52	22.62	0.1828
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	24.22	22.32	0.1706
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.7	22.8	0.1905
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	23.66	21.76	0.1500
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	24.9	23	0.1995
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	25.51	23.61	0.2296
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	24.56	22.66	0.1845
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	23.83	21.93	0.1560
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	24.28	22.38	0.1730
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	23.64	21.74	0.1493
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.54	23.64	0.2312
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	25.83	23.93	0.2472
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	25.12	23.22	0.2099
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	24.6	22.7	0.1862
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	24.79	22.89	0.1945
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	23.95	22.05	0.1603
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	25.17	23.27	0.2123
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.7	23.8	0.2399
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	24.46	22.56	0.1803
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	24.21	22.31	0.1702
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.89	22.99	0.1991
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	23.54	21.64	0.1459
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	24.94	23.04	0.2014
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	25.43	23.53	0.2254
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	24.69	22.79	0.1901
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	23.98	22.08	0.1614
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	24.54	22.64	0.1837
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	23.61	21.71	0.1483
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.52	23.62	0.2301
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	25.59	23.69	0.2339
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	24.79	22.89	0.1945
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	24.53	22.63	0.1832
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	24.65	22.75	0.1884

77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	23.54	21.64	0.1459
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.25	23.35	0.2163
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.01	24.11	0.2576
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	24.34	22.44	0.1754
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	24.28	22.38	0.1730
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.82	22.92	0.1959
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	23.44	21.54	0.1426
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	24.99	23.09	0.2037
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.52	23.62	0.2301
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	24.36	22.46	0.1762
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	24.02	22.12	0.1629
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	24.6	22.7	0.1862
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	23.5	21.6	0.1445
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.36	23.46	0.2218
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	25.61	23.71	0.2350
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	24.34	22.44	0.1754
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	24.43	22.53	0.1791
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	24.66	22.76	0.1888
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	23.45	21.55	0.1429
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	25.2	23.3	0.2138
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.79	23.89	0.2449
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	24.35	22.45	0.1758
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	24.22	22.32	0.1706
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.87	22.97	0.1982
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	23.41	21.51	0.1416
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	25.05	23.15	0.2065
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	25.78	23.88	0.2443
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	24.37	22.47	0.1766
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	24.05	22.15	0.1641
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	24.9	23	0.1995
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	23.47	21.57	0.1435
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	25.32	23.42	0.2198
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	25.63	23.73	0.2360
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	24.42	22.52	0.1786
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	24.29	22.39	0.1734
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	24.7	22.8	0.1905
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	23.34	21.44	0.1393
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	25.22	23.32	0.2148
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.01	24.11	0.2576

77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	24.32	22.42	0.1746
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	24.22	22.32	0.1706
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.81	22.91	0.1954
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	23.47	21.57	0.1435
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	25.13	23.23	0.2104
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	25.8	23.9	0.2455
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	24.54	22.64	0.1837
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	24.15	22.25	0.1679
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	24.87	22.97	0.1982
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	23.34	21.44	0.1393
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.5	23.6	0.2291
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	25.85	23.95	0.2483
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.62	23.72	0.2355
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.58	23.68	0.2333
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.02	24.12	0.2582
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.77	23.87	0.2438
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	24.62	22.72	0.1871
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	24.84	22.94	0.1968
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	24.61	22.71	0.1866
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	23.15	21.25	0.1334
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	23.46	21.56	0.1432
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	23.22	21.32	0.1355
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	21.19	19.29	0.0849
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	21.19	19.29	0.0849
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	21	19.1	0.0813
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.06	22.16	0.1644
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	24.28	22.38	0.1730
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24	22.1	0.1622

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	10.8	**PASS**	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.8	**PASS**	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	9.2	**PASS**	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.8	**PASS**	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	9.5	**PASS**	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.9	**PASS**	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.3	**PASS**	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.2	**PASS**	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	10.8	**PASS**	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.4	**PASS**	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	7.5	**PASS**	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	6.6	**PASS**	50℃

|MAX($\triangle$f)| =12.8 Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL − |MAX($\triangle$ f)|	3450.904187	≥ 3450 MHz	PASS
fH + |MAX($\triangle$ f)|	3548.725913	≤ 3550 MHz	

Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
77	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.09	13	**PASS**
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.02	13	**PASS**

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

N77(20M)_DFT-s-OFDM_QPSK_Outer_Full_Mid_CH
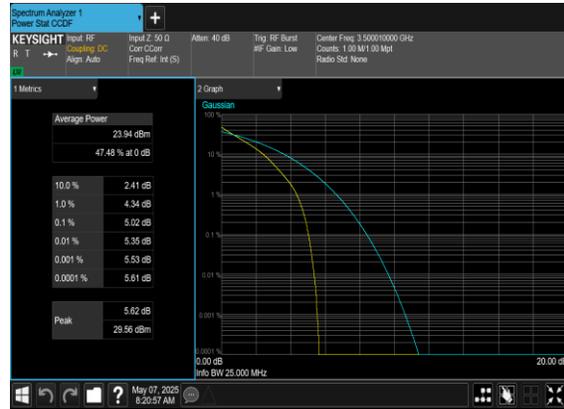
Occupied Bandwidth

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5549	9.19
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5741	9.178
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5823	9.177
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5951	9.137
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.559	14.28
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.548	14.35
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.631	14.38
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.562	14.31
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.209	18.95
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.215	18.99
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.215	19.1
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.193	18.93
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.219	24.21
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.143	24.16
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.19	24.22
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.285	24.3
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.855	29.06
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.805	28.94
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.854	29.06
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.846	28.81
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.824	39.19
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.881	39.25

77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.98	39.33
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.764	39.13
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.382	49.08
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.551	49.01
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.524	49.09
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.458	48.97
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.663	59.69
77	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.616	59.68
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.914	59.65
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.903	59.66
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.46	69.75
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.465	69.7
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.554	69.71
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.402	69.59
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.596	79.9
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.572	79.94
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.558	80.08
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.586	79.83
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.469	90.36
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.385	90.29
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.392	90.24
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.622	90.27
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.395	100.6
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.393	100.4

77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.447	100.6
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.494	100.5

N77(10M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(10M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(10M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
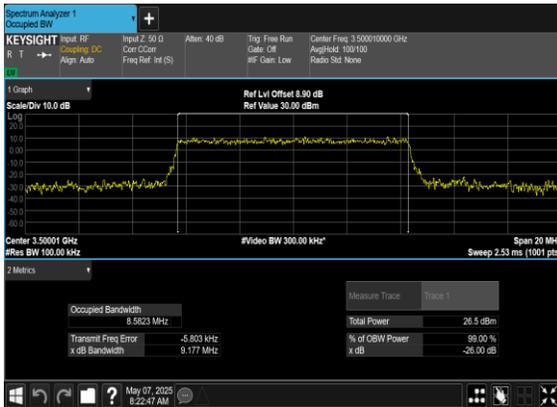
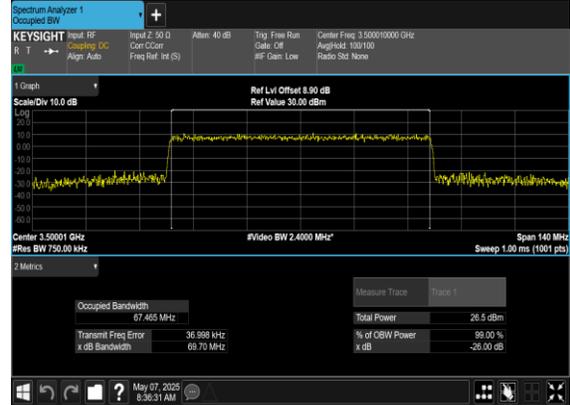

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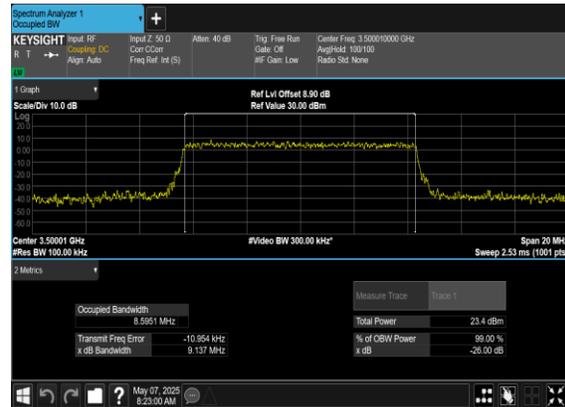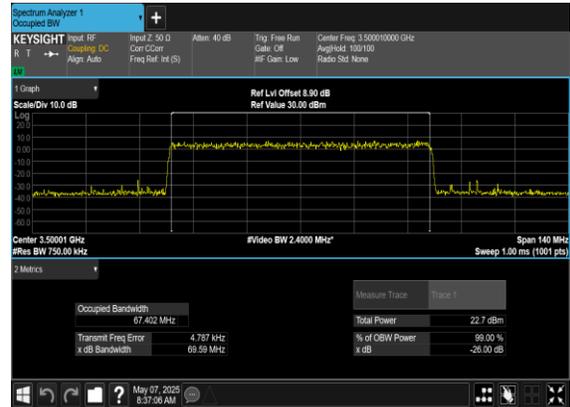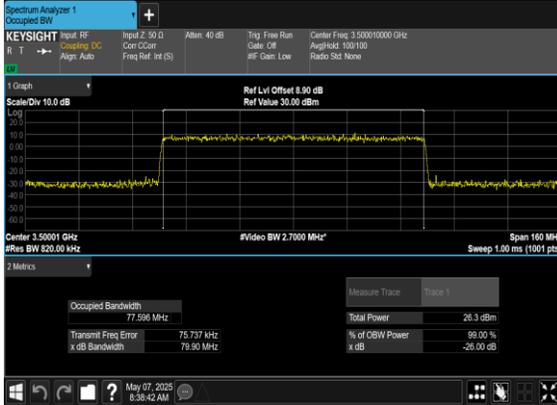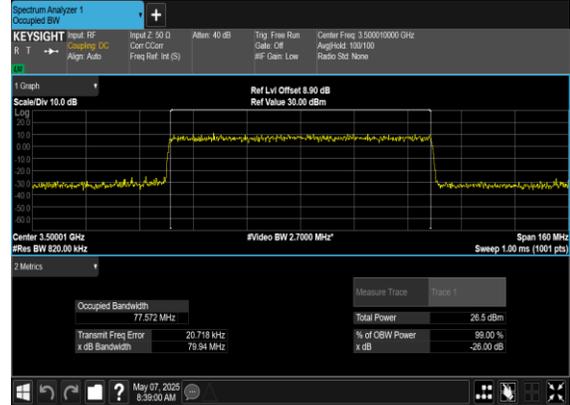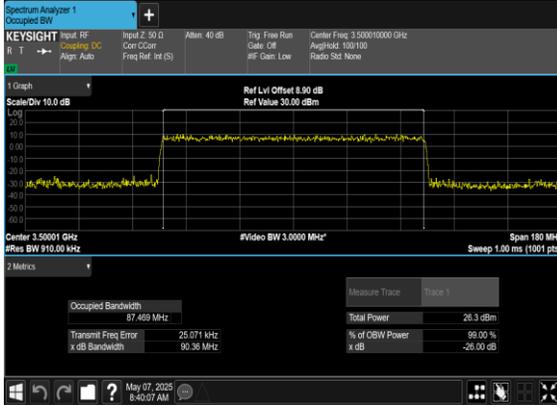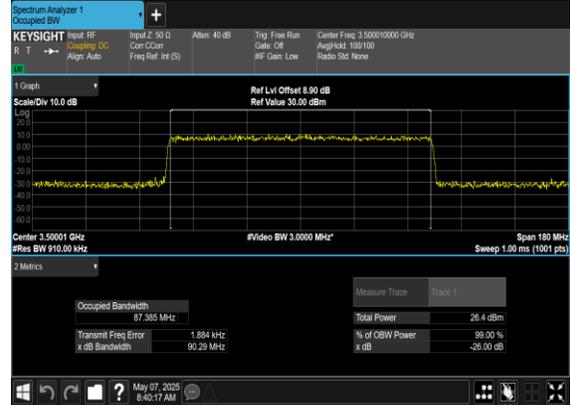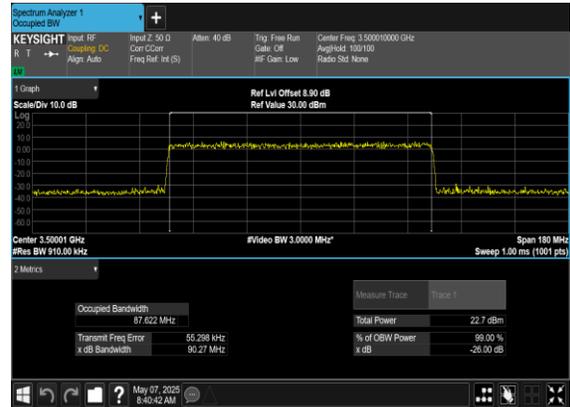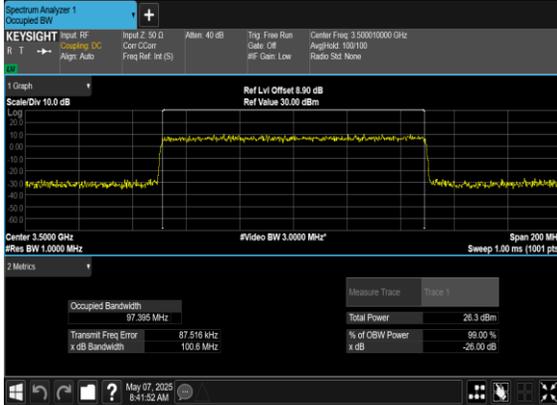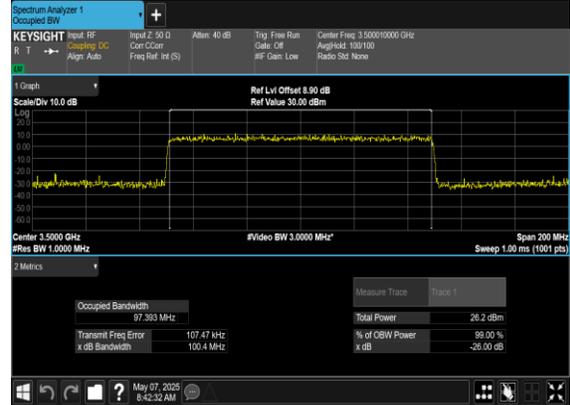
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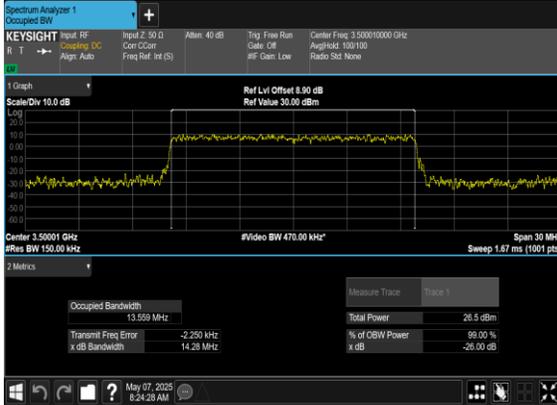
N77(15M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(15M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(15M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
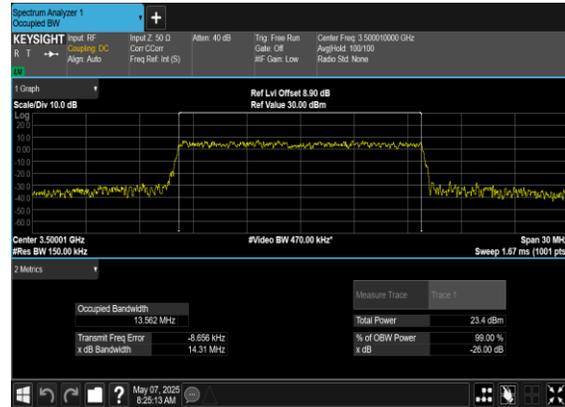
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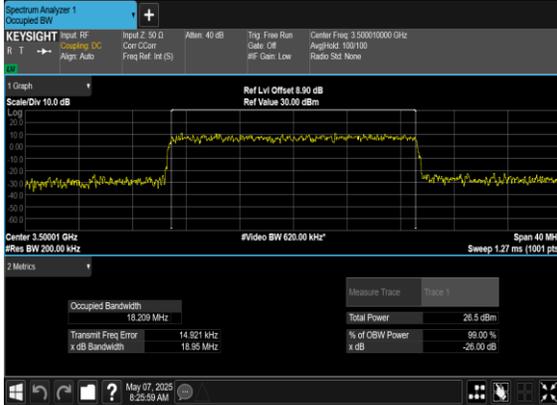
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N77(20M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH
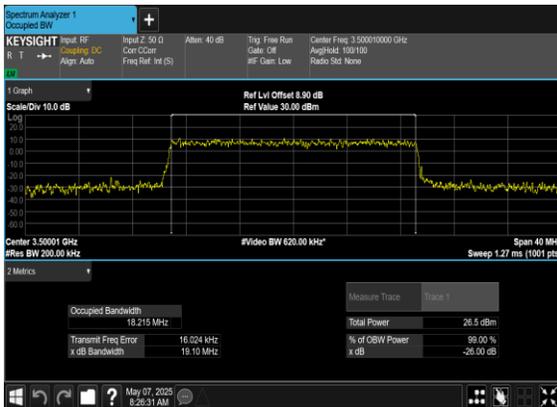
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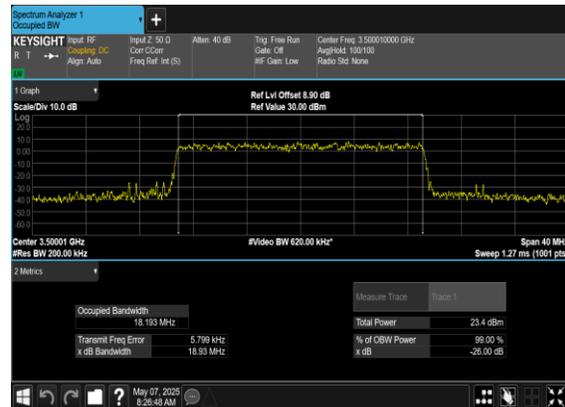
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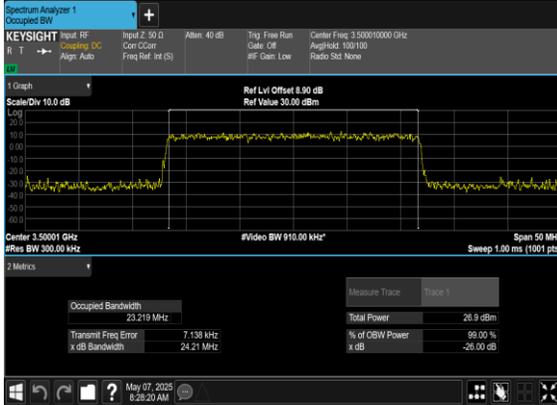
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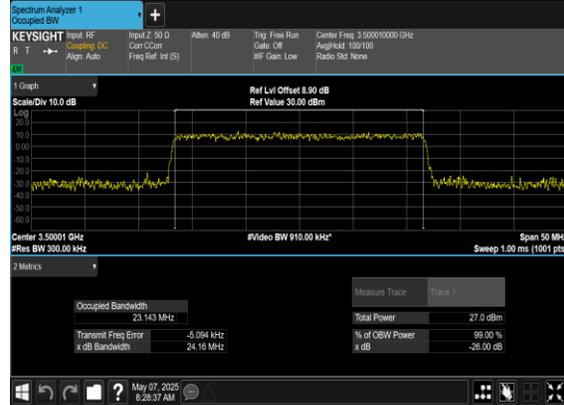
N77(25M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
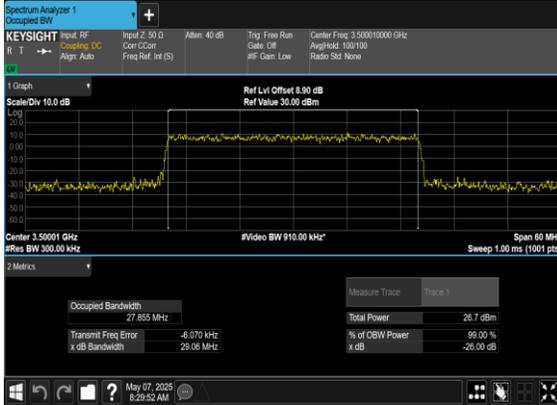
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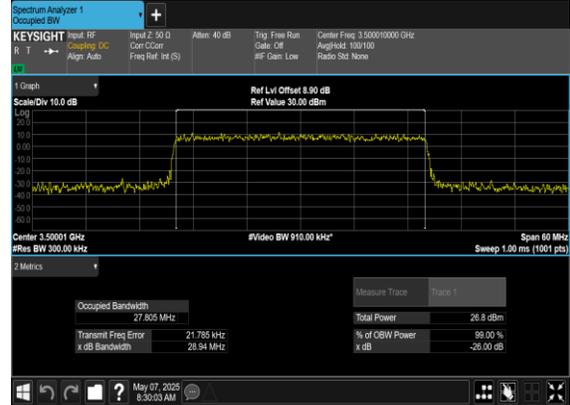
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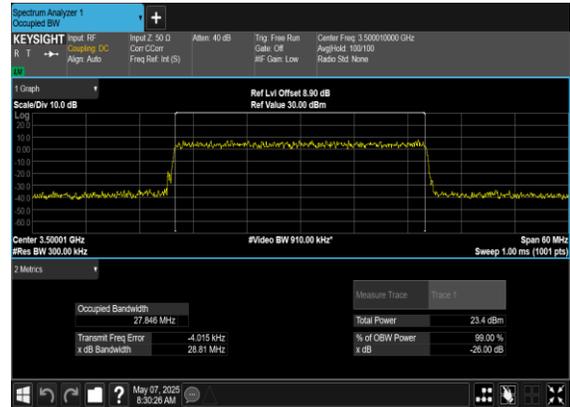
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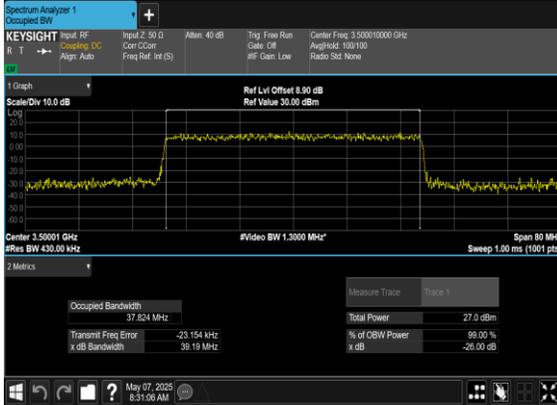
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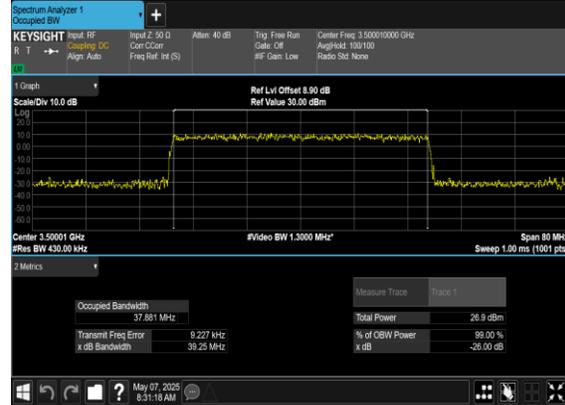
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N77(40M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
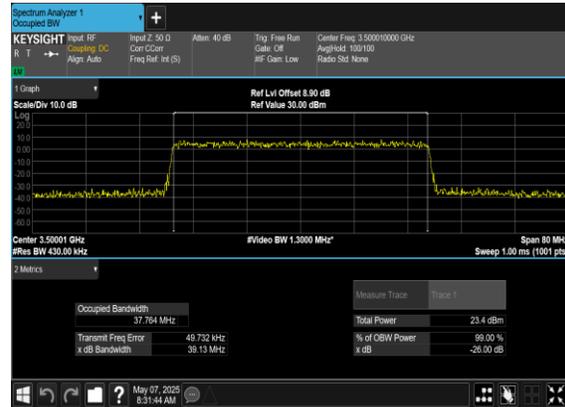
N77(50M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
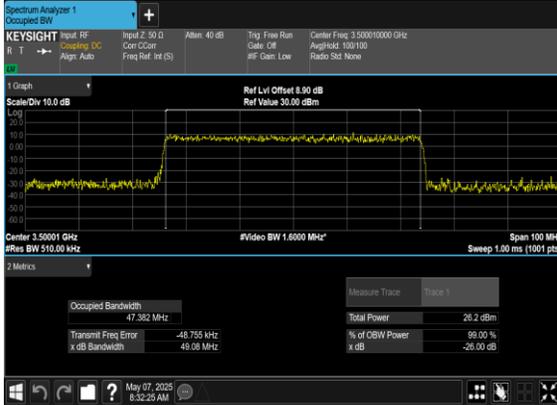
N77(50M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH
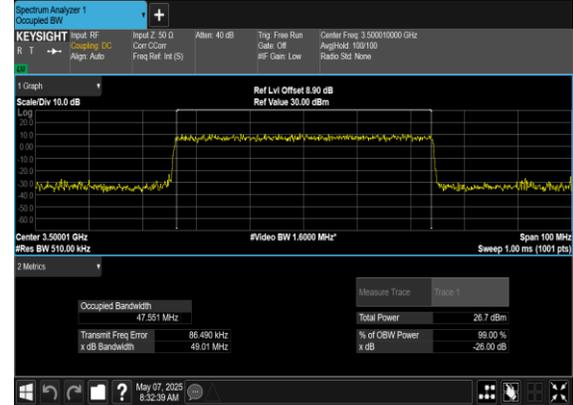
N77(50M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(60M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
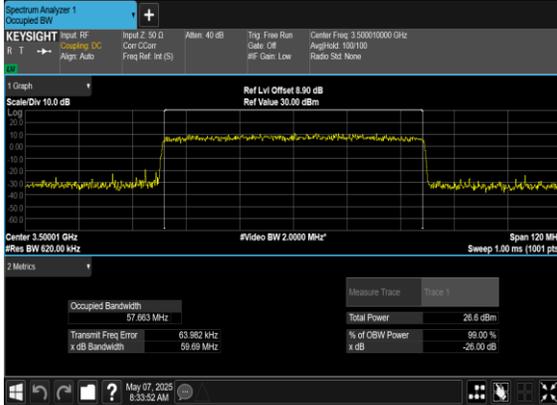
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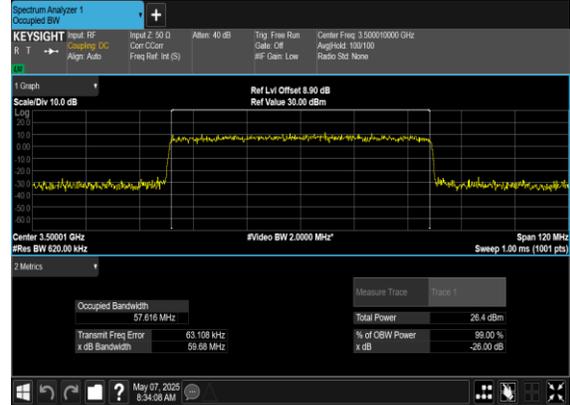
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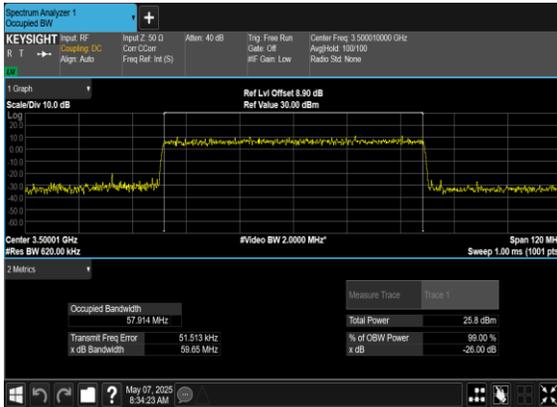
N77(60M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(70M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
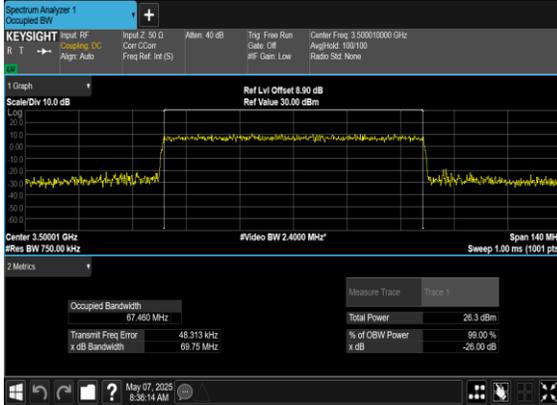
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N77(70M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_16 QAM_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

N77(100M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
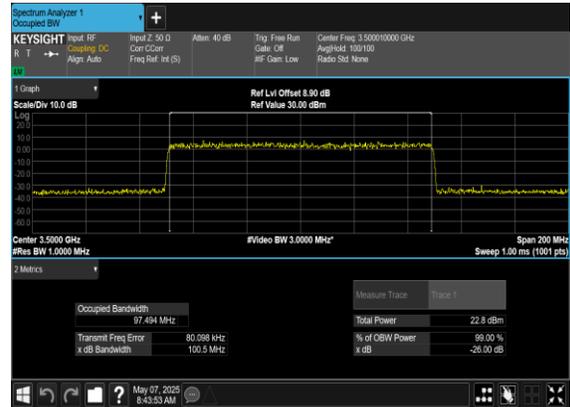
Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	---

77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---

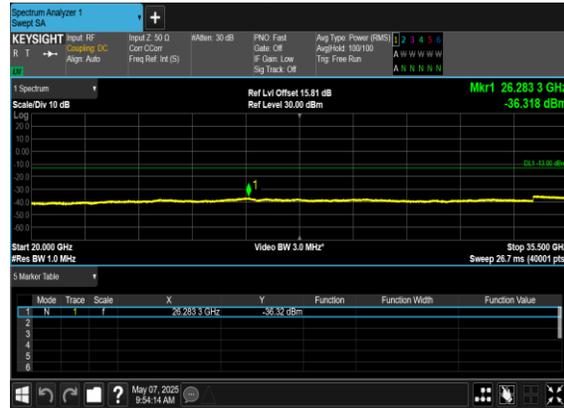| 77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

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
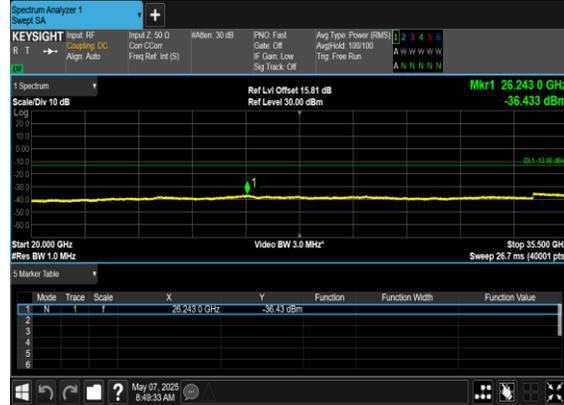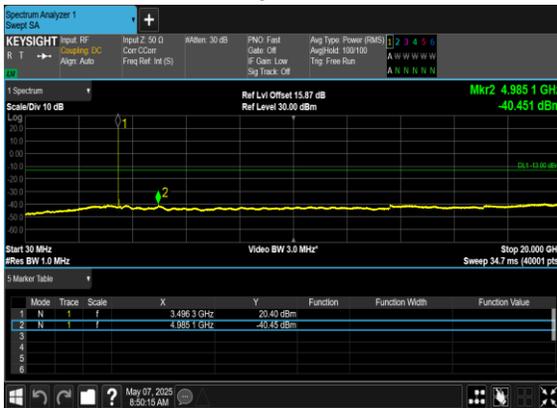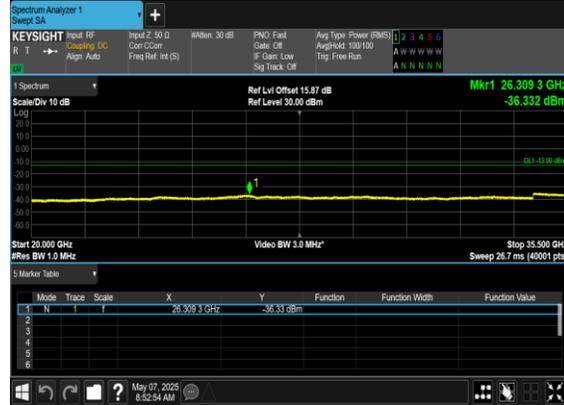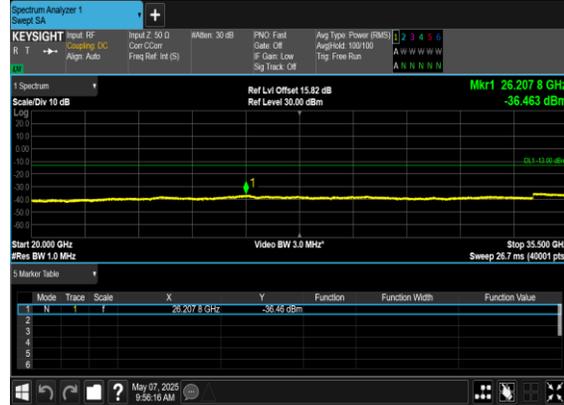

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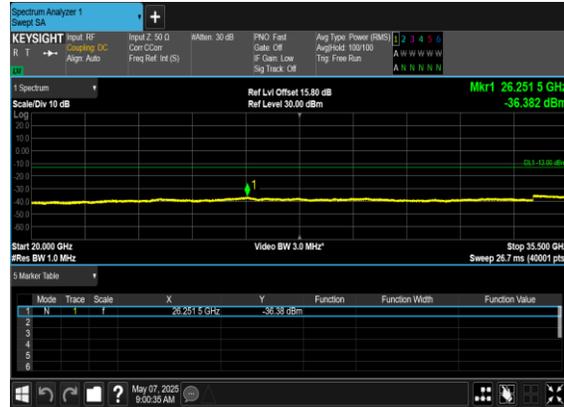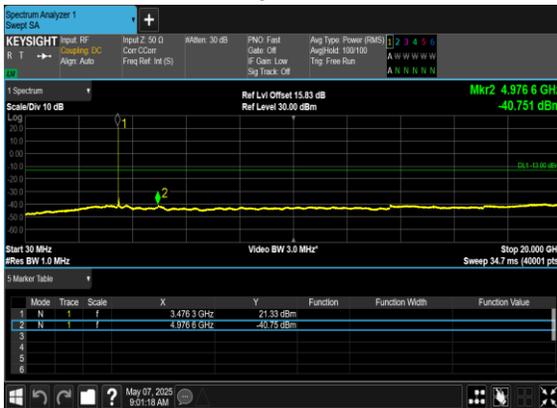
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

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

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH
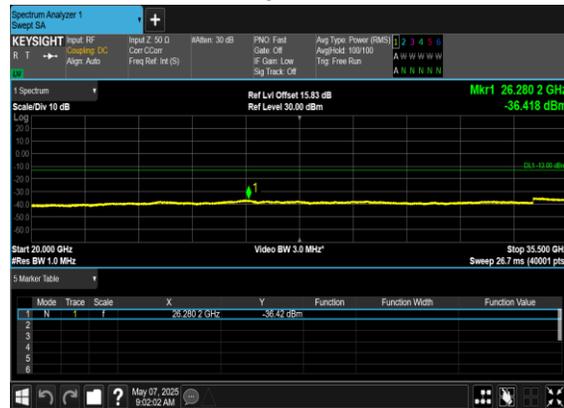
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

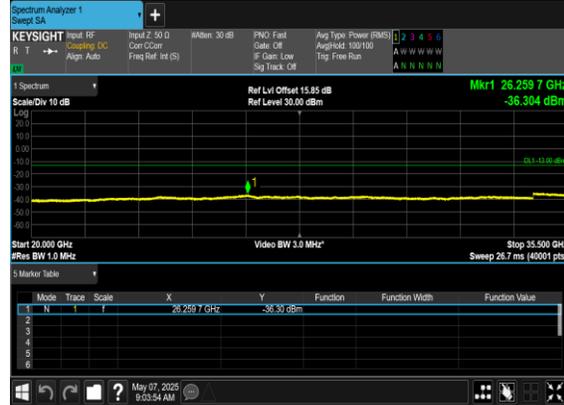N77(50M)_DFT-s-
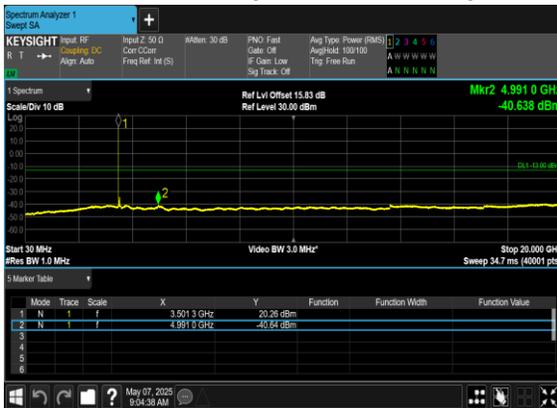OFDM_QPSK_Edge_1RB_Left_Mid_CH

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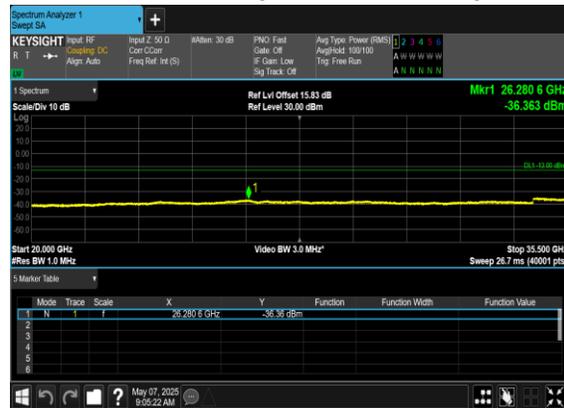OFDM_BPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

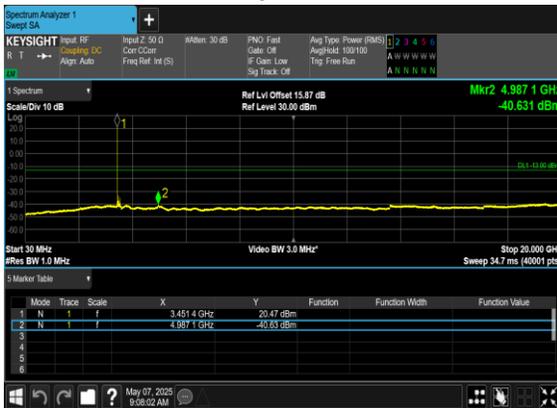N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_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

Conducted Band Edge

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	1@23	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@23	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM BPSK	24@0	see graph	**PASS**
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	24@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@132	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	128@0	see graph	**PASS**
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	128@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	**PASS**

77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	**PASS**
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	**PASS**

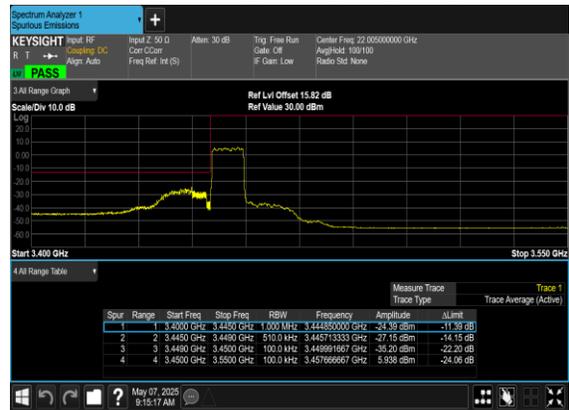N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

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

N77(10M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

N77(10M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH