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 O (3700-3980MHz)**
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

Approved by: Fly Liang

ilac-MRA

A2LA ACCREDITED Cert #5145.01

Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG542529P	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	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)	$< 43+10\log10(P[\text{Watts}])$	PASS	-
3.8	§2.1051 §27.53(l)(2)	Conducted Spurious Emission (5G NR n77, n78)	$< 43+10\log10(P[\text{Watts}])$	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)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 24.22 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.

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

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: -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:

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 and Emission Designator

5G NR n77 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3975.00	0.2673	8M58G7D	0.2070	8M59W7D
15	3705.52 ~ 3972.48	0.2723	13M6G7D	0.2099	13M6W7D
20	3710.01 ~ 3969.99	0.2767	18M1G7D	0.2061	18M3W7D
25	3712.50 ~ 3967.50	0.2594	23M2G7D	0.2113	23M2W7D
30	3715.02 ~ 3964.98	0.2761	27M8G7D	0.2173	27M8W7D
40	3720.00 ~ 3960.00	0.2661	37M9G7D	0.2123	38M0W7D
50	3725.01 ~ 3954.99	0.2636	47M4G7D	0.2099	47M4W7D
60	3730.02 ~ 3949.98	0.2679	57M6G7D	0.2123	57M9W7D
70	3735.00 ~ 3945.00	0.2742	67M6G7D	0.2123	67M5W7D
80	3740.01 ~ 3939.99	0.2673	77M6G7D	0.2168	77M6W7D
90	3745.02 ~ 3934.98	0.2679	87M5G7D	0.2158	87M7W7D
100	3750.00 ~ 3930.00	0.2773	97M4G7D	0.2099	97M6W7D

5G NR n78 SA		PI/2 BPSK / QPSK		16QAM / 64QAM / 256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
10	3705.00 ~ 3795.00	0.3311	8M58G7D	0.2630	8M59W7D
15	3707.52 ~ 3792.48	0.3304	13M5G7D	0.2636	13M7W7D
20	3710.01 ~ 3789.99	0.3273	18M2G7D	0.2606	18M3W7D
25	3712.50 ~ 3787.50	0.3251	23M2G7D	0.2600	23M2W7D
30	3715.02 ~ 3784.98	0.3342	27M8G7D	0.2655	27M9W7D
40	3720.00 ~ 3780.00	0.3251	37M8G7D	0.2649	37M9W7D
50	3725.01 ~ 3774.99	0.3304	47M3G7D	0.2594	47M5W7D
60	3730.02 ~ 3769.98	0.3311	57M8G7D	0.2630	57M9W7D
70	3735.00 ~ 3765.00	0.3311	67M5G7D	0.2723	67M5W7D
80	3740.01 ~ 3759.99	0.3404	77M5G7D	0.2704	77M5W7D
90	3745.02 ~ 3754.98	0.3334	87M5G7D	0.2748	87M6W7D
100	3750.00 ~ 3750.00	0.3412	97M4G7D	0.2649	97M5W7D

Note: 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	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 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 ERP and EIRP v01r01

Remark:

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

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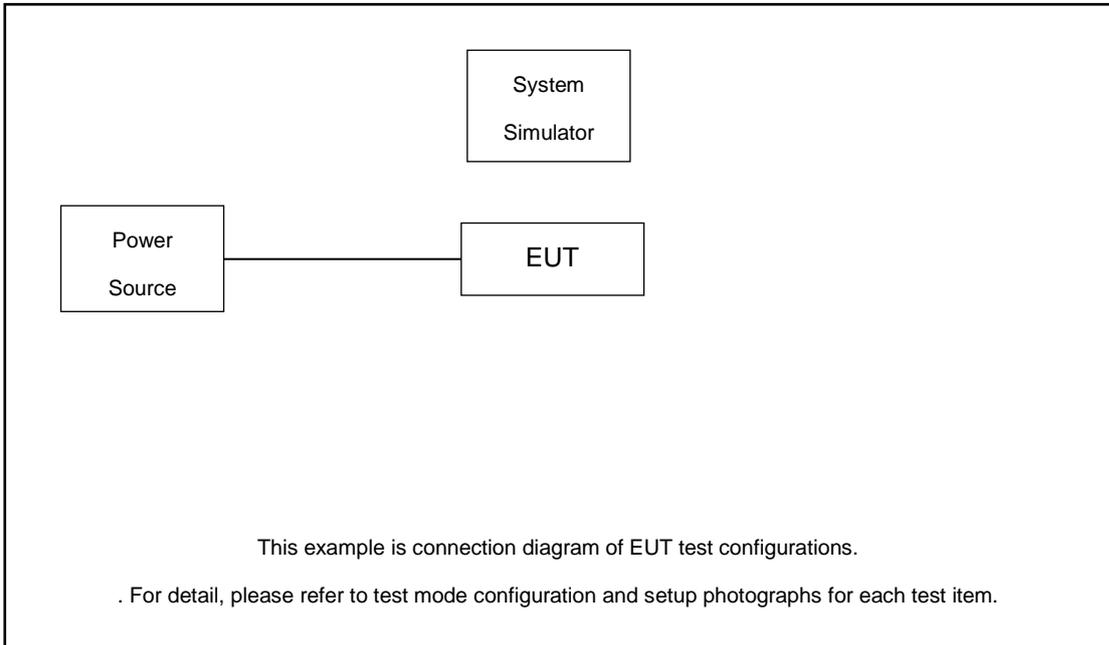
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

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.

	X Plane	Y Plane	Z Plane
Orthogonal Planes of EUT			

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	
	n78			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	
	n78	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
	n78	v						v			v	v	v				v		v	v		v
Conducted Spurious Emission	n77	v						v			v	v	v				v		v	v	v	v
	n78	v						v			v	v	v				v		v	v	v	v
Frequency Stability	n77			v									v						v		v	
	n78			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	
	n78	Worst Case																			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 = 3.93V; Low Voltage =3.70V; High Voltage =4.30V.																					

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2.2 Connection Diagram of Test System

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┌──────────────────────────────────────────────────────────────┐
│                                                                │
│                         ┌──────────────┐                       │
│                         │    System    │                       │
│                         │   Simulator  │                       │
│                         └──────────────┘                       │
│                                                                │
│       ┌──────────────┐                   ┌──────────────┐      │
│       │    Power      │                  │              │      │
│       │   Source      │──────────────────│     EUT      │      │
│       └──────────────┘                   └──────────────┘      │
│                                                                │
│                                                                │
│           This example is connection diagram of EUT test       │
│           configurations.                                      │
│     . For detail, please refer to test mode configuration and  │
│       setup photographs for each test item.                    │
│                                                                │
└──────────────────────────────────────────────────────────────┘
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2.3 Support Unit used in test configuration and system

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.87 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 5.87 + 10 = 15.87 \text{ (dB)}$$

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2.5 Frequency List of Low/Middle/High Channels

BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
	5G n77 Channel and Frequency List			
		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

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\multicolumn{5}{c}{**5G n78 Channel and Frequency List**}				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
100	Channel		650000	
	Frequency		3750	
90	Channel	649668	650000	650332
	Frequency	3745.02	3750	3754.98
80	Channel	649334	650000	650666
	Frequency	3740.01	3750	3759.99
70	Channel	649000	650000	651000
	Frequency	3735	3750	3765
60	Channel	648668	650000	651332
	Frequency	3730.02	3750	3769.98
50	Channel	648334	650000	651666
	Frequency	3725.01	3750	3774.99
40	Channel	648000	650000	652000
	Frequency	3720	3750	3780
30	Channel	647668	650000	652332
	Frequency	3715.02	3750	3784.98
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

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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
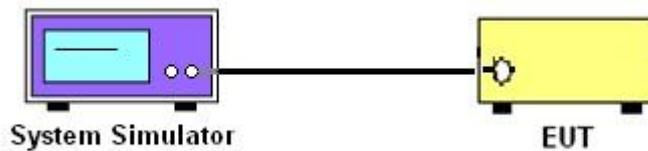
3.2.2   Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission
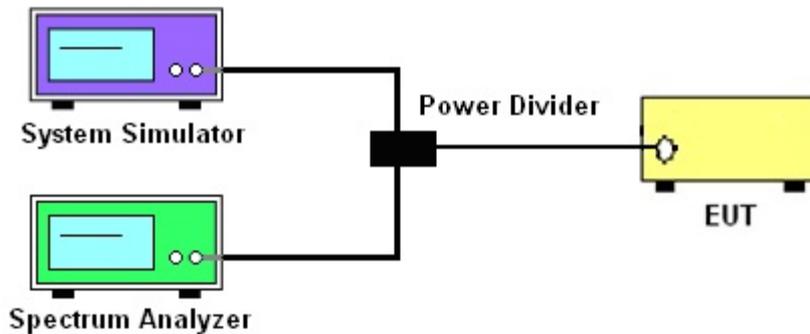
3.2.3   Frequency Stability
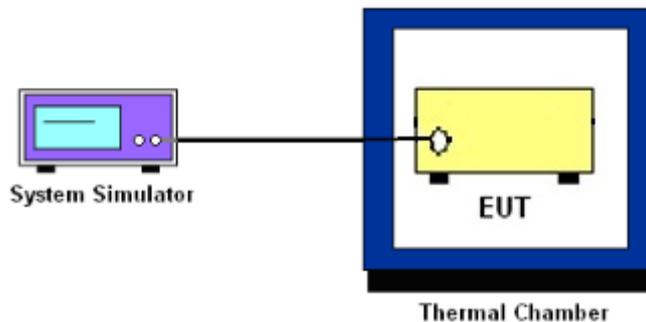
3.3   Test Result of Conducted Test

Please refer to Appendix A.

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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.

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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 >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used (generally limited to no less than 1% of the OBW) and the measured power was integrated over the full required measurement bandwidth.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

   Example:

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

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
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 + 10log(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.

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±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.

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4   Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1   For radiated test below 30MHz
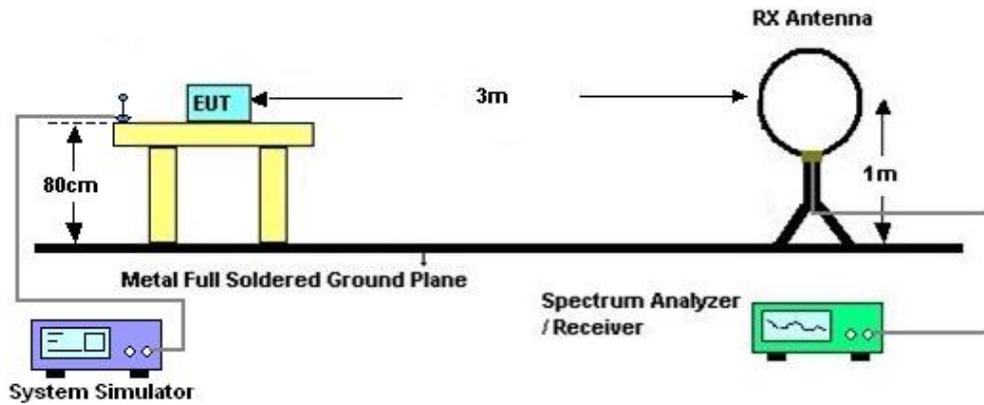
4.2.2   For radiated test from 30MHz to 1GHz
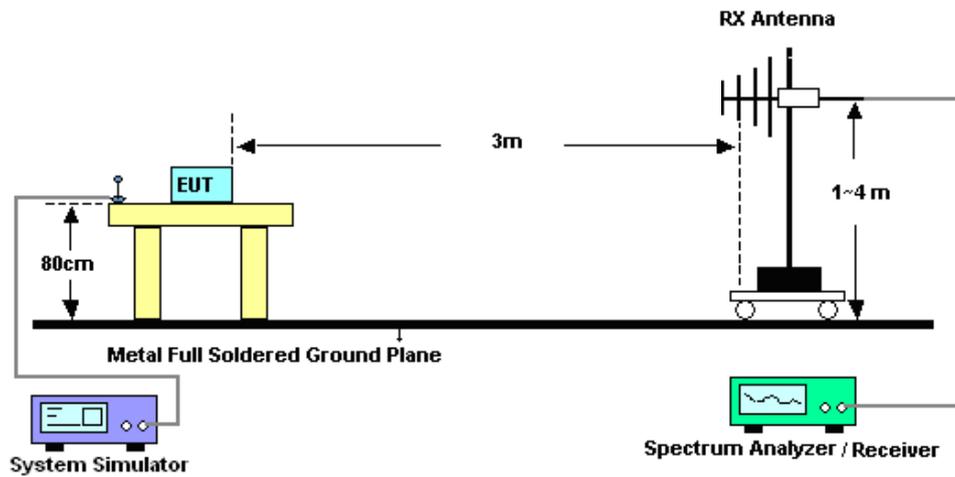
4.2.3 For radiated test above 1GHz
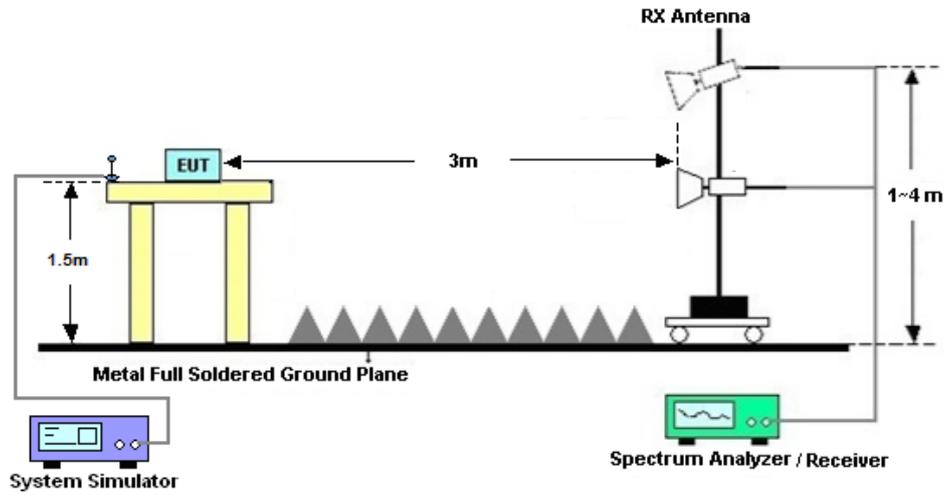
4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1   Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2   Test Procedures

1.   The testing follows ANSI C63.26 Section 5.5
2.   The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3.   The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4.   The table was rotated 360 degrees to determine the position of the highest spurious emission.
5.   The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6.   During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7.   Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8.   A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9.   Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
     The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
     = P(W)- [43 + 10log(P)] (dB)
     = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (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. 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-04265	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%

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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	647000	3705	DFT-s-OFDM QPSK	12@6	26.17	24.27	0.2673
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@1	25.98	24.08	0.2559
77	30	10	647000	3705	DFT-s-OFDM QPSK	1@22	25.92	24.02	0.2523
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	12@6	25.06	23.16	0.2070
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@1	25.05	23.15	0.2065
77	30	10	647000	3705	DFT-s-OFDM 16 QAM	1@22	25.04	23.14	0.2061
77	30	10	656000	3840	DFT-s-OFDM QPSK	12@6	25.91	24.01	0.2518
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@1	25.92	24.02	0.2523
77	30	10	656000	3840	DFT-s-OFDM QPSK	1@22	26.07	24.17	0.2612
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	12@6	24.76	22.86	0.1932
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.89	22.99	0.1991
77	30	10	656000	3840	DFT-s-OFDM 16 QAM	1@22	24.75	22.85	0.1928
77	30	10	665000	3975	DFT-s-OFDM QPSK	12@6	25.31	23.41	0.2193
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@1	24.99	23.09	0.2037
77	30	10	665000	3975	DFT-s-OFDM QPSK	1@22	24.99	23.09	0.2037
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	12@6	24.18	22.28	0.1690
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@1	24.14	22.24	0.1675
77	30	10	665000	3975	DFT-s-OFDM 16 QAM	1@22	24.02	22.12	0.1629
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	18@9	26.03	24.13	0.2588
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@1	25.94	24.04	0.2535
77	30	15	647168	3707.52	DFT-s-OFDM QPSK	1@36	25.8	23.9	0.2455
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	18@9	25.12	23.22	0.2099
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@1	25.07	23.17	0.2075
77	30	15	647168	3707.52	DFT-s-OFDM 16 QAM	1@36	24.87	22.97	0.1982
77	30	15	656000	3840	DFT-s-OFDM QPSK	18@9	25.82	23.92	0.2466
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@1	26.25	24.35	0.2723
77	30	15	656000	3840	DFT-s-OFDM QPSK	1@36	25.6	23.7	0.2344
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	18@9	24.94	23.04	0.2014
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.84	22.94	0.1968
77	30	15	656000	3840	DFT-s-OFDM 16 QAM	1@36	24.68	22.78	0.1897
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	18@9	25.1	23.2	0.2089
77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@1	24.91	23.01	0.2000

77	30	15	664832	3972.48	DFT-s-OFDM QPSK	1@36	24.94	23.04	0.2014
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	18@9	24.26	22.36	0.1722
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@1	23.94	22.04	0.1600
77	30	15	664832	3972.48	DFT-s-OFDM 16 QAM	1@36	23.98	22.08	0.1614
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	25@12	26.06	24.16	0.2606
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@1	26.32	24.42	0.2767
77	30	20	647334	3710.01	DFT-s-OFDM QPSK	1@49	25.73	23.83	0.2415
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	25@12	25.04	23.14	0.2061
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@1	25	23.1	0.2042
77	30	20	647334	3710.01	DFT-s-OFDM 16 QAM	1@49	24.74	22.84	0.1923
77	30	20	656000	3840	DFT-s-OFDM QPSK	25@12	25.87	23.97	0.2495
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@1	25.71	23.81	0.2404
77	30	20	656000	3840	DFT-s-OFDM QPSK	1@49	25.59	23.69	0.2339
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	25@12	24.93	23.03	0.2009
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.79	22.89	0.1945
77	30	20	656000	3840	DFT-s-OFDM 16 QAM	1@49	24.68	22.78	0.1897
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	25@12	25.24	23.34	0.2158
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@1	25.41	23.51	0.2244
77	30	20	664666	3969.99	DFT-s-OFDM QPSK	1@49	25.46	23.56	0.2270
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	25@12	24.24	22.34	0.1714
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@1	23.89	21.99	0.1581
77	30	20	664666	3969.99	DFT-s-OFDM 16 QAM	1@49	24.04	22.14	0.1637
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	32@16	26.03	24.13	0.2588
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@1	26.02	24.12	0.2582
77	30	25	647500	3712.5	DFT-s-OFDM QPSK	1@63	25.98	24.08	0.2559
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	32@16	25.02	23.12	0.2051
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@1	25.15	23.25	0.2113
77	30	25	647500	3712.5	DFT-s-OFDM 16 QAM	1@63	24.83	22.93	0.1963
77	30	25	656000	3840	DFT-s-OFDM QPSK	32@16	25.86	23.96	0.2489
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@1	26.04	24.14	0.2594
77	30	25	656000	3840	DFT-s-OFDM QPSK	1@63	25.91	24.01	0.2518
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	32@16	24.93	23.03	0.2009
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@1	24.95	23.05	0.2018
77	30	25	656000	3840	DFT-s-OFDM 16 QAM	1@63	24.79	22.89	0.1945
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	32@16	25.23	23.33	0.2153
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@1	25.18	23.28	0.2128
77	30	25	664500	3967.5	DFT-s-OFDM QPSK	1@63	25.37	23.47	0.2223
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	32@16	24.23	22.33	0.1710
77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@1	24.11	22.21	0.1663

77	30	25	664500	3967.5	DFT-s-OFDM 16 QAM	1@63	24.22	22.32	0.1706
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	36@18	25.99	24.09	0.2564
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@1	26.31	24.41	0.2761
77	30	30	647668	3715.02	DFT-s-OFDM QPSK	1@76	26.14	24.24	0.2655
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	36@18	25.03	23.13	0.2056
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@1	25.27	23.37	0.2173
77	30	30	647668	3715.02	DFT-s-OFDM 16 QAM	1@76	24.96	23.06	0.2023
77	30	30	656000	3840	DFT-s-OFDM QPSK	36@18	25.83	23.93	0.2472
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@1	26.15	24.25	0.2661
77	30	30	656000	3840	DFT-s-OFDM QPSK	1@76	25.98	24.08	0.2559
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	36@18	24.84	22.94	0.1968
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.03	23.13	0.2056
77	30	30	656000	3840	DFT-s-OFDM 16 QAM	1@76	24.8	22.9	0.1950
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	36@18	25.04	23.14	0.2061
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@1	25.2	23.3	0.2138
77	30	30	664332	3964.98	DFT-s-OFDM QPSK	1@76	25.16	23.26	0.2118
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	36@18	24.07	22.17	0.1648
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@1	24.11	22.21	0.1663
77	30	30	664332	3964.98	DFT-s-OFDM 16 QAM	1@76	24.25	22.35	0.1718
77	30	40	648000	3720	DFT-s-OFDM QPSK	50@25	25.98	24.08	0.2559
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@1	26.15	24.25	0.2661
77	30	40	648000	3720	DFT-s-OFDM QPSK	1@104	25.96	24.06	0.2547
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	50@25	25.04	23.14	0.2061
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@1	25.17	23.27	0.2123
77	30	40	648000	3720	DFT-s-OFDM 16 QAM	1@104	24.9	23	0.1995
77	30	40	656000	3840	DFT-s-OFDM QPSK	50@25	25.85	23.95	0.2483
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@1	25.94	24.04	0.2535
77	30	40	656000	3840	DFT-s-OFDM QPSK	1@104	25.92	24.02	0.2523
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	50@25	24.89	22.99	0.1991
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.07	23.17	0.2075
77	30	40	656000	3840	DFT-s-OFDM 16 QAM	1@104	24.79	22.89	0.1945
77	30	40	664000	3960	DFT-s-OFDM QPSK	50@25	25.09	23.19	0.2084
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@1	24.97	23.07	0.2028
77	30	40	664000	3960	DFT-s-OFDM QPSK	1@104	25.24	23.34	0.2158
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	50@25	24.14	22.24	0.1675
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@1	24.1	22.2	0.1660
77	30	40	664000	3960	DFT-s-OFDM 16 QAM	1@104	24.28	22.38	0.1730
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	64@32	26.06	24.16	0.2606
77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@1	26.11	24.21	0.2636

77	30	50	648334	3725.01	DFT-s-OFDM QPSK	1@131	26.01	24.11	0.2576
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	64@32	25.04	23.14	0.2061
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@1	25.12	23.22	0.2099
77	30	50	648334	3725.01	DFT-s-OFDM 16 QAM	1@131	24.77	22.87	0.1936
77	30	50	656000	3840	DFT-s-OFDM QPSK	64@32	25.95	24.05	0.2541
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@1	25.91	24.01	0.2518
77	30	50	656000	3840	DFT-s-OFDM QPSK	1@131	25.77	23.87	0.2438
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	64@32	24.92	23.02	0.2004
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.07	23.17	0.2075
77	30	50	656000	3840	DFT-s-OFDM 16 QAM	1@131	24.82	22.92	0.1959
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	64@32	25.03	23.13	0.2056
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@1	25.01	23.11	0.2046
77	30	50	663666	3954.99	DFT-s-OFDM QPSK	1@131	25.23	23.33	0.2153
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	64@32	23.98	22.08	0.1614
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@1	24.1	22.2	0.1660
77	30	50	663666	3954.99	DFT-s-OFDM 16 QAM	1@131	24.16	22.26	0.1683
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	81@40	25.92	24.02	0.2523
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@1	26.18	24.28	0.2679
77	30	60	648668	3730.02	DFT-s-OFDM QPSK	1@160	25.73	23.83	0.2415
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	81@40	24.99	23.09	0.2037
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@1	25.17	23.27	0.2123
77	30	60	648668	3730.02	DFT-s-OFDM 16 QAM	1@160	24.57	22.67	0.1849
77	30	60	656000	3840	DFT-s-OFDM QPSK	81@40	25.9	24	0.2512
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@1	25.98	24.08	0.2559
77	30	60	656000	3840	DFT-s-OFDM QPSK	1@160	25.67	23.77	0.2382
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	81@40	24.95	23.05	0.2018
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.03	23.13	0.2056
77	30	60	656000	3840	DFT-s-OFDM 16 QAM	1@160	24.72	22.82	0.1914
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	81@40	25.06	23.16	0.2070
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@1	25.23	23.33	0.2153
77	30	60	663332	3949.98	DFT-s-OFDM QPSK	1@160	25.33	23.43	0.2203
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	81@40	24.11	22.21	0.1663
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@1	24.32	22.42	0.1746
77	30	60	663332	3949.98	DFT-s-OFDM 16 QAM	1@160	24.32	22.42	0.1746
77	30	70	649000	3735	DFT-s-OFDM QPSK	90@45	26.08	24.18	0.2618
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@1	26.16	24.26	0.2667
77	30	70	649000	3735	DFT-s-OFDM QPSK	1@187	25.76	23.86	0.2432
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	90@45	25.02	23.12	0.2051
77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@1	25.17	23.27	0.2123

77	30	70	649000	3735	DFT-s-OFDM 16 QAM	1@187	24.46	22.56	0.1803
77	30	70	656000	3840	DFT-s-OFDM QPSK	90@45	25.98	24.08	0.2559
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@1	26.28	24.38	0.2742
77	30	70	656000	3840	DFT-s-OFDM QPSK	1@187	25.84	23.94	0.2477
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	90@45	25	23.1	0.2042
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.15	23.25	0.2113
77	30	70	656000	3840	DFT-s-OFDM 16 QAM	1@187	24.62	22.72	0.1871
77	30	70	663000	3945	DFT-s-OFDM QPSK	90@45	25.27	23.37	0.2173
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@1	25.6	23.7	0.2344
77	30	70	663000	3945	DFT-s-OFDM QPSK	1@187	25.3	23.4	0.2188
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	90@45	24.29	22.39	0.1734
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@1	24.48	22.58	0.1811
77	30	70	663000	3945	DFT-s-OFDM 16 QAM	1@187	24.33	22.43	0.1750
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	108@54	25.96	24.06	0.2547
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@1	26.17	24.27	0.2673
77	30	80	649334	3740.01	DFT-s-OFDM QPSK	1@215	25.82	23.92	0.2466
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	108@54	25.04	23.14	0.2061
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@1	25.26	23.36	0.2168
77	30	80	649334	3740.01	DFT-s-OFDM 16 QAM	1@215	24.64	22.74	0.1879
77	30	80	656000	3840	DFT-s-OFDM QPSK	108@54	25.98	24.08	0.2559
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@1	26.03	24.13	0.2588
77	30	80	656000	3840	DFT-s-OFDM QPSK	1@215	25.5	23.6	0.2291
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	108@54	25.08	23.18	0.2080
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.15	23.25	0.2113
77	30	80	656000	3840	DFT-s-OFDM 16 QAM	1@215	24.52	22.62	0.1828
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	108@54	25.22	23.32	0.2148
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@1	25.39	23.49	0.2234
77	30	80	662666	3939.99	DFT-s-OFDM QPSK	1@215	25.28	23.38	0.2178
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	108@54	24.28	22.38	0.1730
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@1	24.55	22.65	0.1841
77	30	80	662666	3939.99	DFT-s-OFDM 16 QAM	1@215	24.39	22.49	0.1774
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	120@60	25.95	24.05	0.2541
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@1	26.18	24.28	0.2679
77	30	90	649668	3745.02	DFT-s-OFDM QPSK	1@243	25.93	24.03	0.2529
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	120@60	25.01	23.11	0.2046
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@1	25.24	23.34	0.2158
77	30	90	649668	3745.02	DFT-s-OFDM 16 QAM	1@243	24.7	22.8	0.1905
77	30	90	656000	3840	DFT-s-OFDM QPSK	120@60	26	24.1	0.2570
77	30	90	656000	3840	DFT-s-OFDM QPSK	1@1	25.89	23.99	0.2506

77	30	90	656000	3840	DFT-s-OFDM QPSK	1@243	25.57	23.67	0.2328
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	120@60	25.02	23.12	0.2051
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@1	25	23.1	0.2042
77	30	90	656000	3840	DFT-s-OFDM 16 QAM	1@243	24.38	22.48	0.1770
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	120@60	25.23	23.33	0.2153
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@1	25.57	23.67	0.2328
77	30	90	662332	3934.98	DFT-s-OFDM QPSK	1@243	25.28	23.38	0.2178
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	120@60	24.24	22.34	0.1714
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@1	24.56	22.66	0.1845
77	30	90	662332	3934.98	DFT-s-OFDM 16 QAM	1@243	24.22	22.32	0.1706
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	135@67	25.94	24.04	0.2535
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@1	25.72	23.82	0.2410
77	30	100	650000	3750	DFT-s-OFDM PI/2 BPSK	1@271	25.93	24.03	0.2529
77	30	100	650000	3750	DFT-s-OFDM QPSK	135@67	26.03	24.13	0.2588
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@1	25.86	23.96	0.2489
77	30	100	650000	3750	DFT-s-OFDM QPSK	1@271	26.08	24.18	0.2618
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	135@67	25.04	23.14	0.2061
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@1	24.78	22.88	0.1941
77	30	100	650000	3750	DFT-s-OFDM 16 QAM	1@271	24.94	23.04	0.2014
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	135@67	23.58	21.68	0.1472
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@1	23.33	21.43	0.1390
77	30	100	650000	3750	DFT-s-OFDM 64 QAM	1@271	23.53	21.63	0.1455
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	135@67	21.53	19.63	0.0918
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@1	20.98	19.08	0.0809
77	30	100	650000	3750	DFT-s-OFDM 256 QAM	1@271	21.2	19.3	0.0851
77	30	100	650000	3750	CP-OFDM QPSK	137@68	24.53	22.63	0.1832
77	30	100	650000	3750	CP-OFDM QPSK	1@1	24.17	22.27	0.1687
77	30	100	650000	3750	CP-OFDM QPSK	1@271	24.3	22.4	0.1738
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	135@67	25.7	23.8	0.2399
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@1	26.17	24.27	0.2673
77	30	100	656000	3840	DFT-s-OFDM PI/2 BPSK	1@271	25.56	23.66	0.2323
77	30	100	656000	3840	DFT-s-OFDM QPSK	135@67	25.77	23.87	0.2438
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@1	26.33	24.43	0.2773
77	30	100	656000	3840	DFT-s-OFDM QPSK	1@271	25.77	23.87	0.2438
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	135@67	24.86	22.96	0.1977
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@1	25.12	23.22	0.2099
77	30	100	656000	3840	DFT-s-OFDM 16 QAM	1@271	24.58	22.68	0.1854
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	135@67	23.32	21.42	0.1387
77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@1	23.82	21.92	0.1556

77	30	100	656000	3840	DFT-s-OFDM 64 QAM	1@271	23.36	21.46	0.1400
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	135@67	21.41	19.51	0.0893
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@1	21.35	19.45	0.0881
77	30	100	656000	3840	DFT-s-OFDM 256 QAM	1@271	20.99	19.09	0.0811
77	30	100	656000	3840	CP-OFDM QPSK	137@68	24.29	22.39	0.1734
77	30	100	656000	3840	CP-OFDM QPSK	1@1	24.56	22.66	0.1845
77	30	100	656000	3840	CP-OFDM QPSK	1@271	24.02	22.12	0.1629
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	135@67	25.61	23.71	0.2350
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@1	25.9	24	0.2512
77	30	100	662000	3930	DFT-s-OFDM PI/2 BPSK	1@271	25.76	23.86	0.2432
77	30	100	662000	3930	DFT-s-OFDM QPSK	135@67	25.63	23.73	0.2360
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@1	26.08	24.18	0.2618
77	30	100	662000	3930	DFT-s-OFDM QPSK	1@271	25.91	24.01	0.2518
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	135@67	24.73	22.83	0.1919
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@1	24.9	23	0.1995
77	30	100	662000	3930	DFT-s-OFDM 16 QAM	1@271	24.78	22.88	0.1941
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	135@67	23.26	21.36	0.1368
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@1	23.62	21.72	0.1486
77	30	100	662000	3930	DFT-s-OFDM 64 QAM	1@271	23.44	21.54	0.1426
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	135@67	21.39	19.49	0.0889
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@1	21.37	19.47	0.0885
77	30	100	662000	3930	DFT-s-OFDM 256 QAM	1@271	21.22	19.32	0.0855
77	30	100	662000	3930	CP-OFDM QPSK	137@68	24.13	22.23	0.1671
77	30	100	662000	3930	CP-OFDM QPSK	1@1	24.33	22.43	0.1750
77	30	100	662000	3930	CP-OFDM QPSK	1@271	24.25	22.35	0.1718

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	14.1	**PASS**	NV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	6.4	**PASS**	LV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	15.5	**PASS**	HV
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	4.4	**PASS**	-30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	5.7	**PASS**	-20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	10.1	**PASS**	-10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	3.5	**PASS**	0℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	8.2	**PASS**	10℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	14.1	**PASS**	20℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	2.8	**PASS**	30℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	7.4	**PASS**	40℃
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	9.8	**PASS**	50℃

$|MAX(\triangle f)| = 15.5$ Hz

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL − |MAX($\triangle$ f)|	3700.889685	≥ 3700 MHz	PASS
fH + |MAX($\triangle$ f)|	3978.737716	≤ 3980 MHz	

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	3.62	13	**PASS**
77	30	20	656000	3840.0	DFT-s-OFDM QPSK	50@0	4.4	13	**PASS**

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

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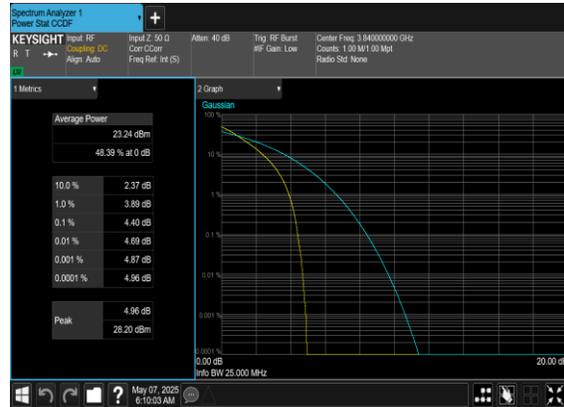
Occupied Bandwidth

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	8.5785	9.245
77	30	10	656000	3840.0	CP-OFDM 16 QAM	24@0	8.5911	9.512
77	30	10	656000	3840.0	CP-OFDM 64 QAM	24@0	8.5697	9.167
77	30	10	656000	3840.0	CP-OFDM 256 QAM	24@0	8.5719	9.19
77	30	15	656000	3840.0	CP-OFDM QPSK	38@0	13.574	14.19
77	30	15	656000	3840.0	CP-OFDM 16 QAM	38@0	13.577	14.25
77	30	15	656000	3840.0	CP-OFDM 64 QAM	38@0	13.627	14.38
77	30	15	656000	3840.0	CP-OFDM 256 QAM	38@0	13.612	14.22
77	30	20	656000	3840.0	CP-OFDM QPSK	51@0	18.131	19.06
77	30	20	656000	3840.0	CP-OFDM 16 QAM	51@0	18.284	19.28
77	30	20	656000	3840.0	CP-OFDM 64 QAM	51@0	18.169	18.89
77	30	20	656000	3840.0	CP-OFDM 256 QAM	51@0	18.191	18.94
77	30	25	656000	3840.0	CP-OFDM QPSK	65@0	23.158	24.2
77	30	25	656000	3840.0	CP-OFDM 16 QAM	65@0	23.202	24.24
77	30	25	656000	3840.0	CP-OFDM 64 QAM	65@0	23.17	24.08
77	30	25	656000	3840.0	CP-OFDM 256 QAM	65@0	23.174	24.11
77	30	30	656000	3840.0	CP-OFDM QPSK	78@0	27.787	28.88
77	30	30	656000	3840.0	CP-OFDM 16 QAM	78@0	27.763	28.74
77	30	30	656000	3840.0	CP-OFDM 64 QAM	78@0	27.716	29.14
77	30	30	656000	3840.0	CP-OFDM 256 QAM	78@0	27.831	28.85
77	30	40	656000	3840.0	CP-OFDM QPSK	106@0	37.865	39.28
77	30	40	656000	3840.0	CP-OFDM 16 QAM	106@0	37.92	39.29

77	30	40	656000	3840.0	CP-OFDM 64 QAM	106@0	37.958	39.14
77	30	40	656000	3840.0	CP-OFDM 256 QAM	106@0	37.815	39.08
77	30	50	656000	3840.0	CP-OFDM QPSK	133@0	47.395	49.04
77	30	50	656000	3840.0	CP-OFDM 16 QAM	133@0	47.418	49.13
77	30	50	656000	3840.0	CP-OFDM 64 QAM	133@0	47.439	49.07
77	30	50	656000	3840.0	CP-OFDM 256 QAM	133@0	47.317	49.21
77	30	60	656000	3840.0	CP-OFDM QPSK	162@0	57.566	59.62
77	30	60	656000	3840.0	CP-OFDM 16 QAM	162@0	57.614	59.68
77	30	60	656000	3840.0	CP-OFDM 64 QAM	162@0	57.874	59.78
77	30	60	656000	3840.0	CP-OFDM 256 QAM	162@0	57.777	59.69
77	30	70	656000	3840.0	CP-OFDM QPSK	189@0	67.557	69.71
77	30	70	656000	3840.0	CP-OFDM 16 QAM	189@0	67.384	69.69
77	30	70	656000	3840.0	CP-OFDM 64 QAM	189@0	67.483	69.74
77	30	70	656000	3840.0	CP-OFDM 256 QAM	189@0	67.443	69.69
77	30	80	656000	3840.0	CP-OFDM QPSK	217@0	77.595	80.01
77	30	80	656000	3840.0	CP-OFDM 16 QAM	217@0	77.562	79.77
77	30	80	656000	3840.0	CP-OFDM 64 QAM	217@0	77.437	79.95
77	30	80	656000	3840.0	CP-OFDM 256 QAM	217@0	77.576	80.01
77	30	90	656000	3840.0	CP-OFDM QPSK	245@0	87.524	90.29
77	30	90	656000	3840.0	CP-OFDM 16 QAM	245@0	87.42	90.29
77	30	90	656000	3840.0	CP-OFDM 64 QAM	245@0	87.393	90.24
77	30	90	656000	3840.0	CP-OFDM 256 QAM	245@0	87.739	90.17
77	30	100	656000	3840.0	CP-OFDM QPSK	273@0	97.367	100.4
77	30	100	656000	3840.0	CP-OFDM 16 QAM	273@0	97.349	100.5

| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM 64 QAM | 273@0 | 97.562 | 100.5 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM 256 QAM | 273@0 | 97.494 | 100.3 |

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

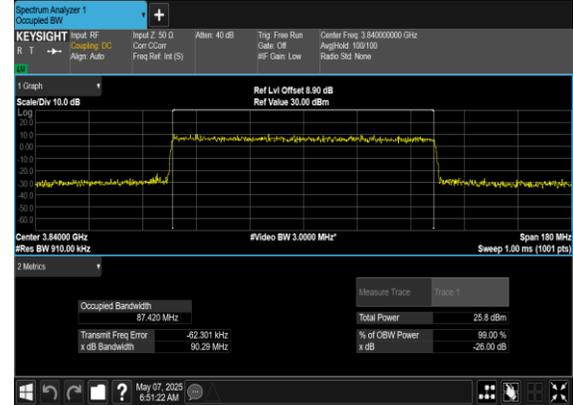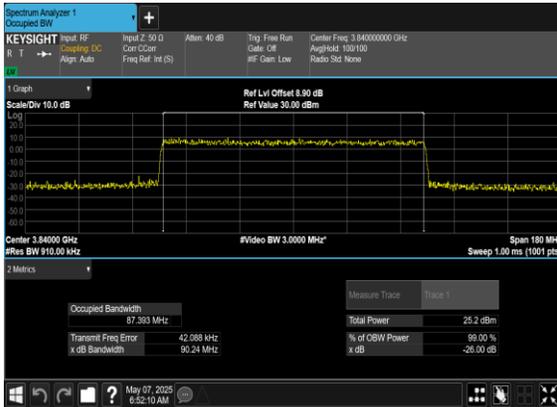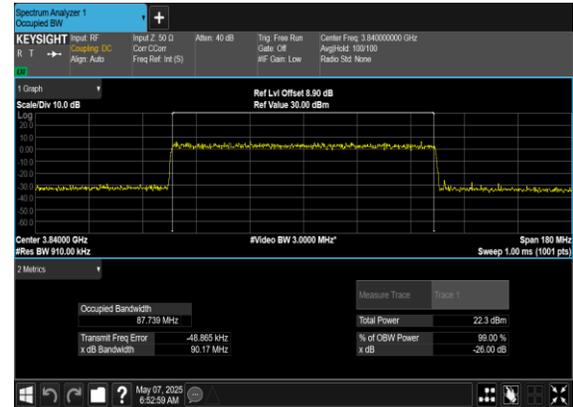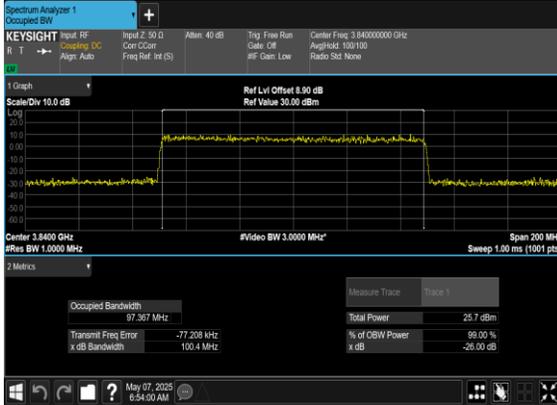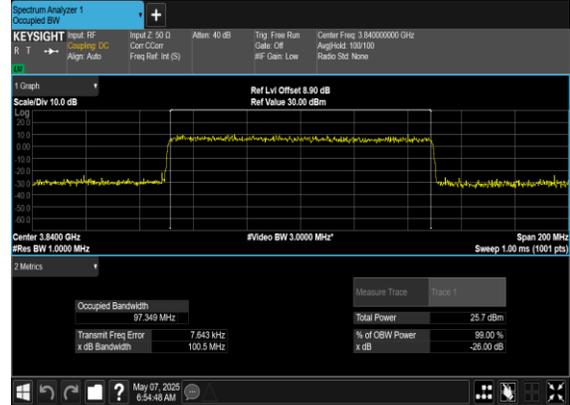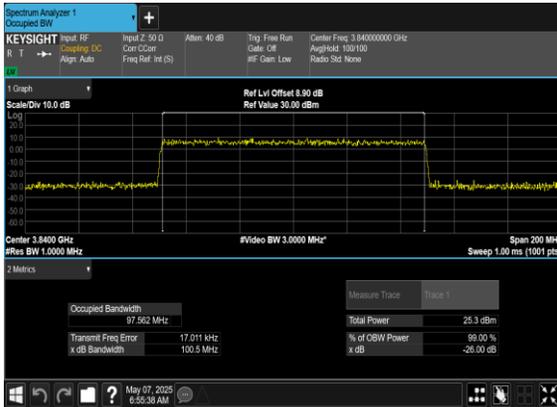
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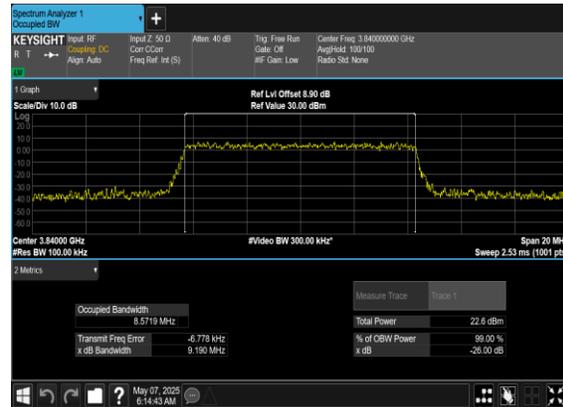
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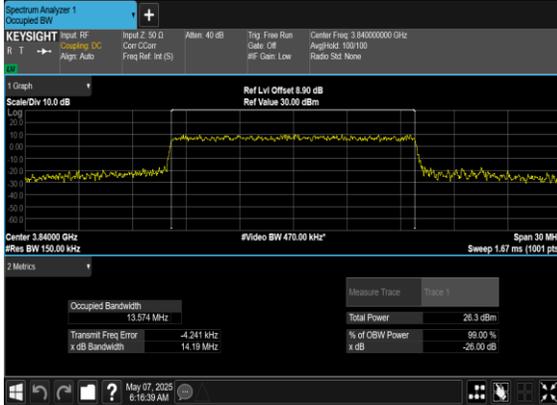
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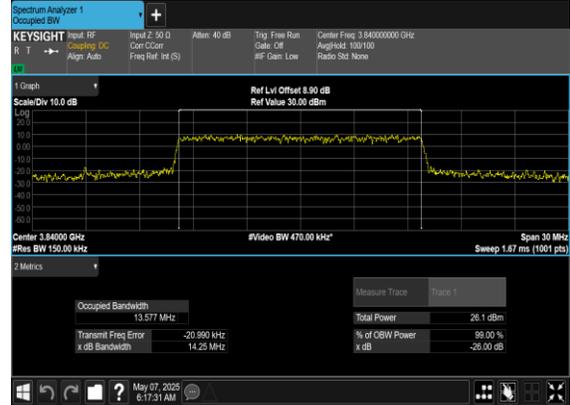
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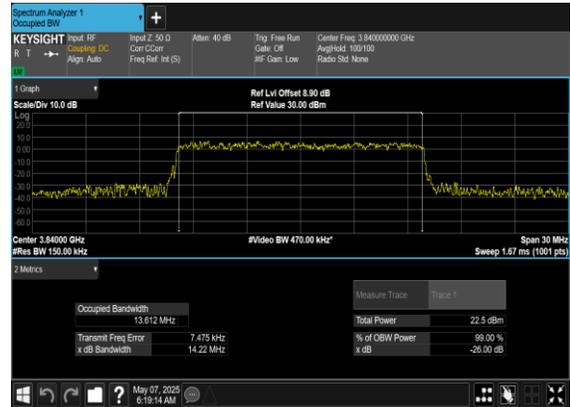
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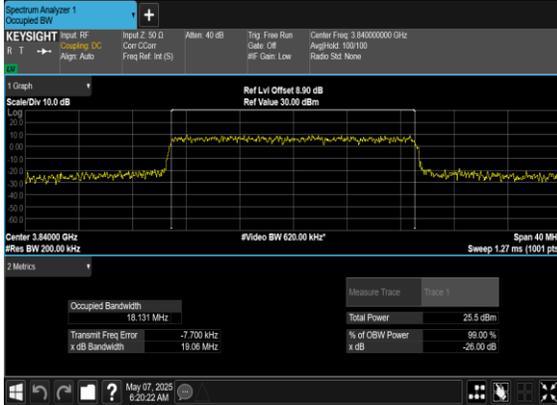
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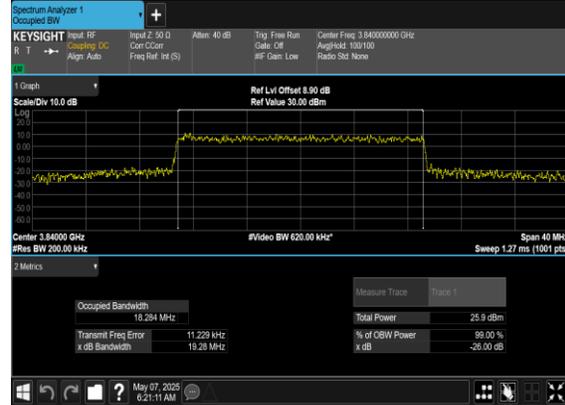
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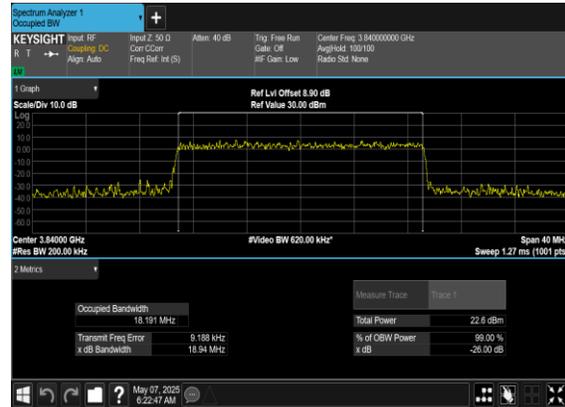
N77(25M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

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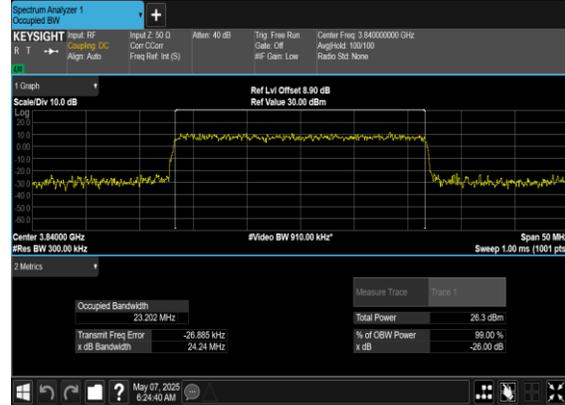
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N77(25M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(30M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
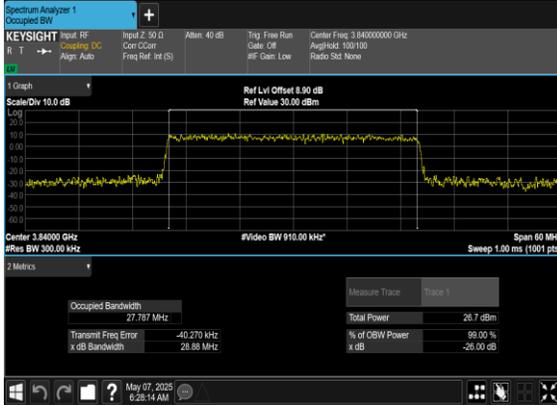
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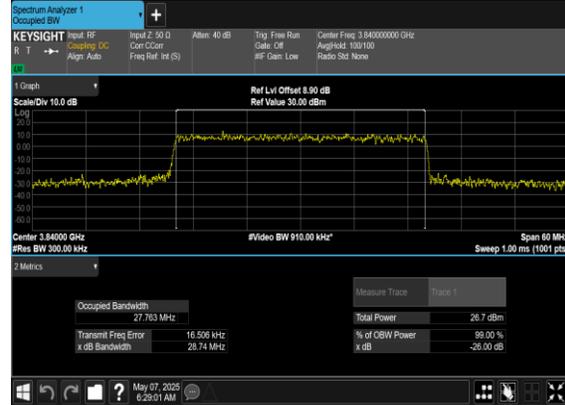
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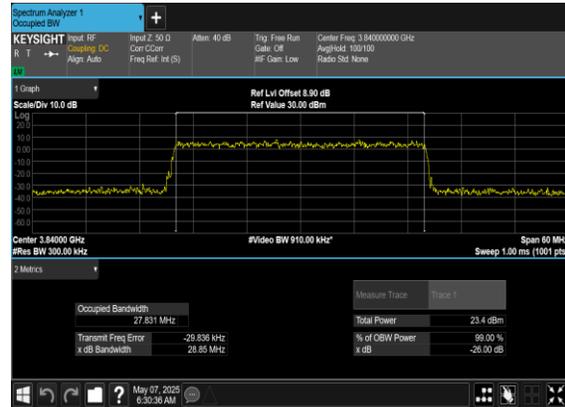
N77(40M)_CP-OFDM_QPSK_Outer_Full_Mid_CH

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
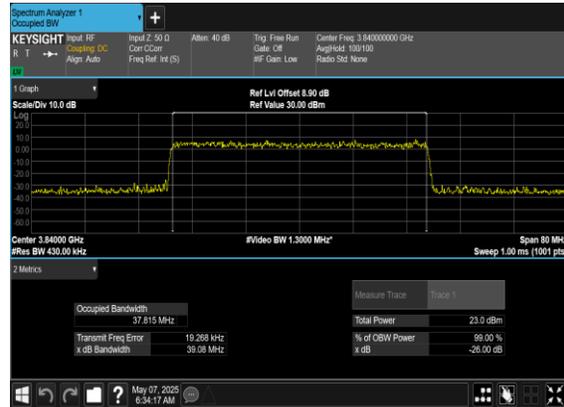
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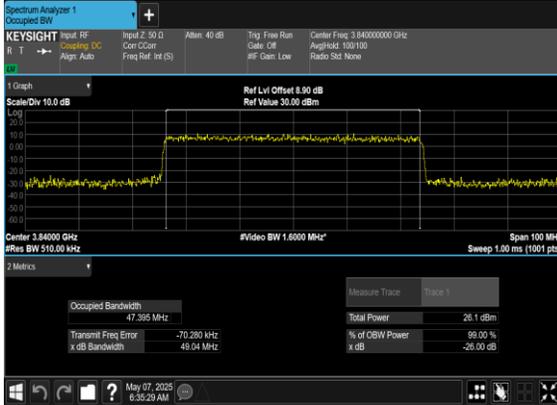
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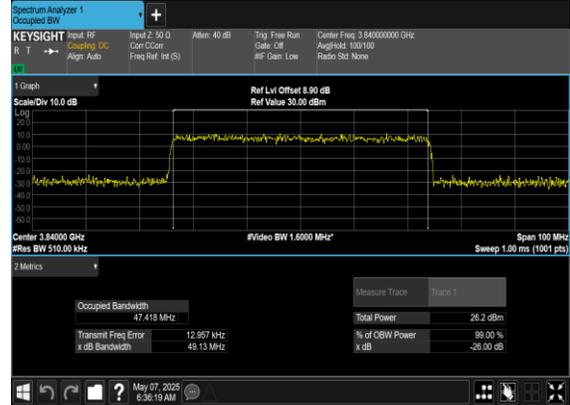
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N77(50M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
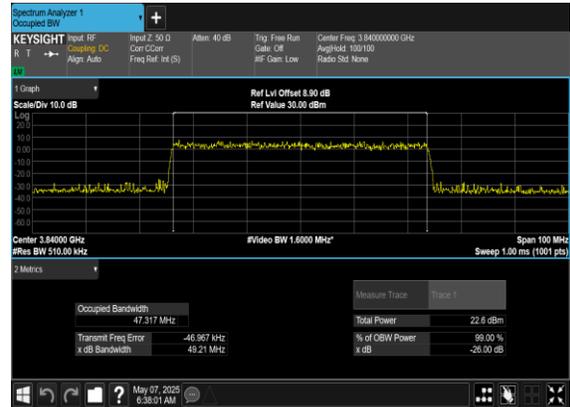
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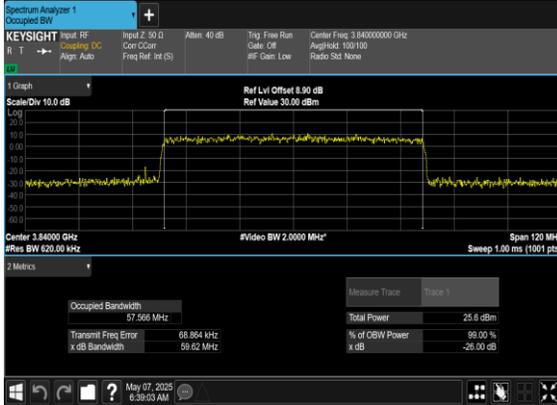
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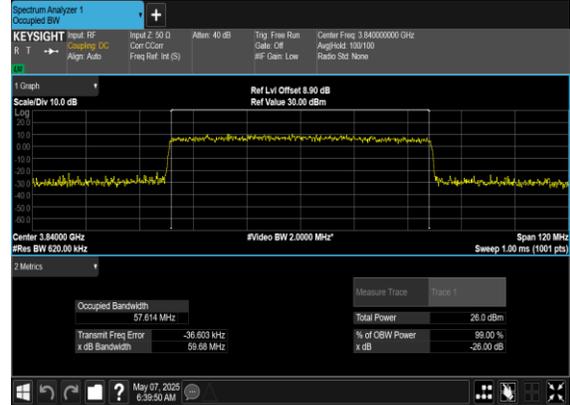
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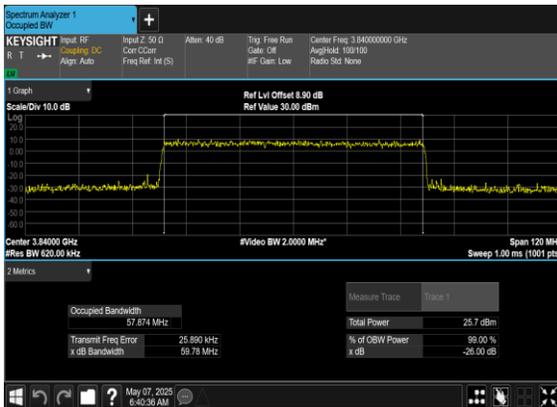
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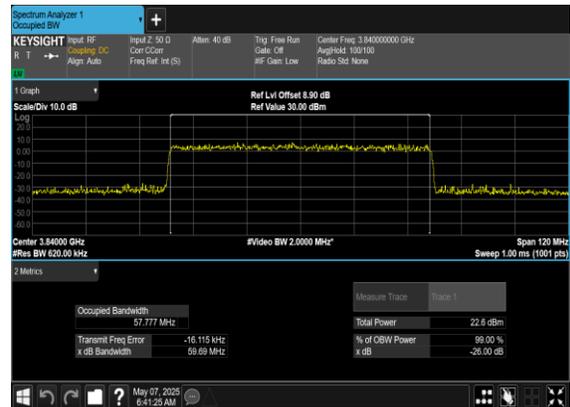
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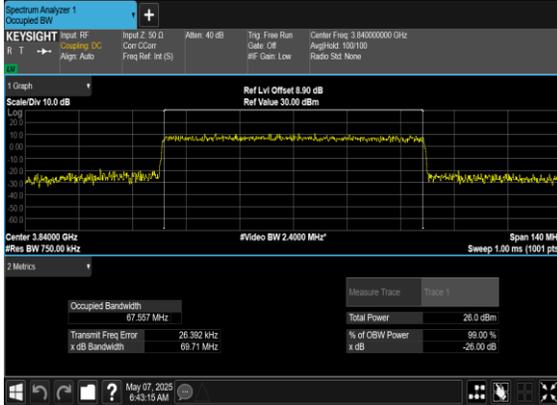
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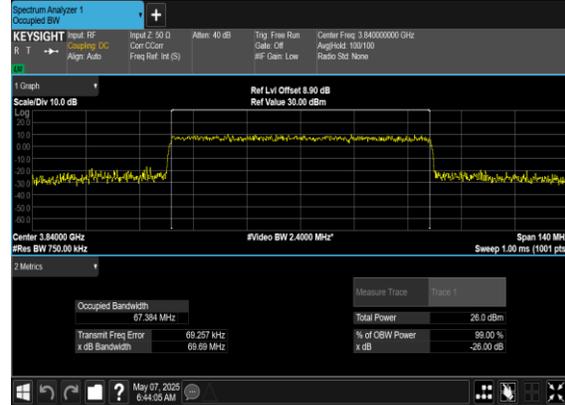
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N77(70M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH
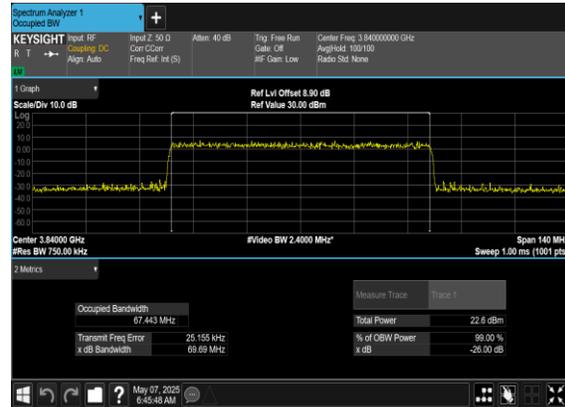
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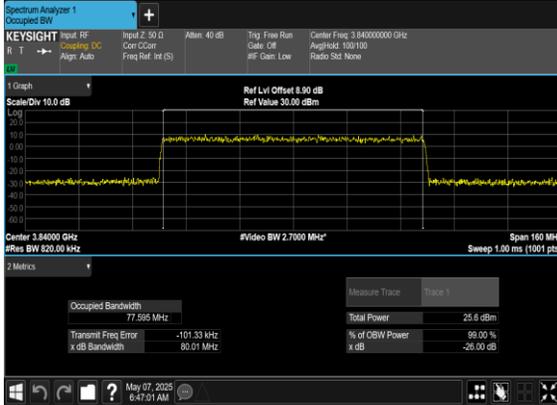
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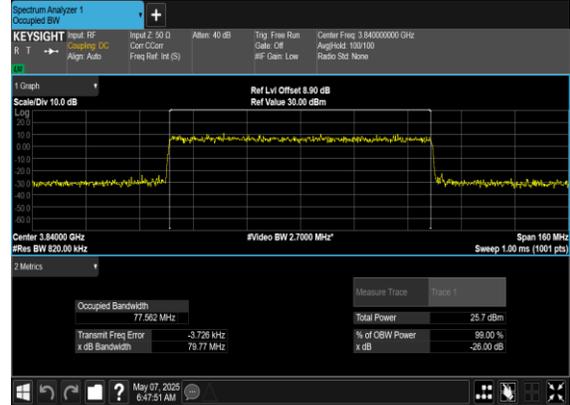
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N77(80M)_CP-OFDM_256 QAM_Outer_Full_Mid_CH

N77(90M)_CP-OFDM_QPSK_Outer_Full_Mid_CH
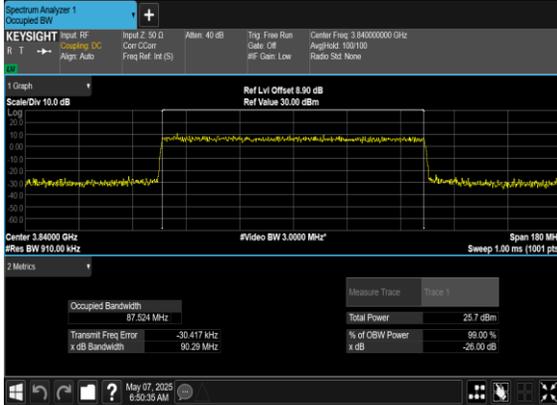
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N77(90M)_CP-OFDM_64 QAM_Outer_Full_Mid_CH

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
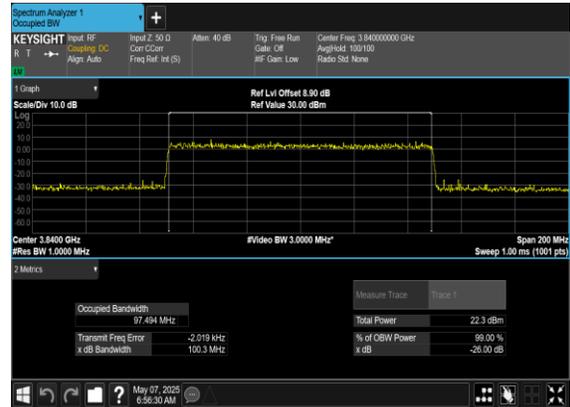
Conducted Spurious Emissions

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

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

77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	650000	3750.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	656000	3840.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM BPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	---
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**
77	30	100	662000	3930.0	DFT-s-OFDM QPSK	1@0	see graph	**PASS**

N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

N77(10M)_DFT-s-
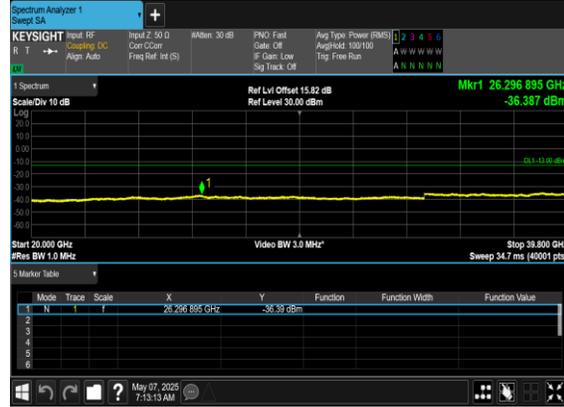OFDM_QPSK_Edge_1RB_Left_Low_CH
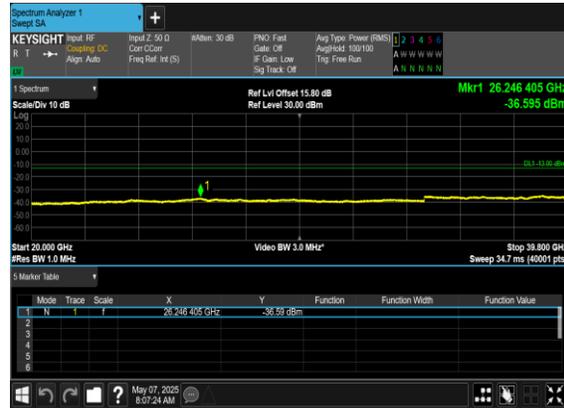
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH
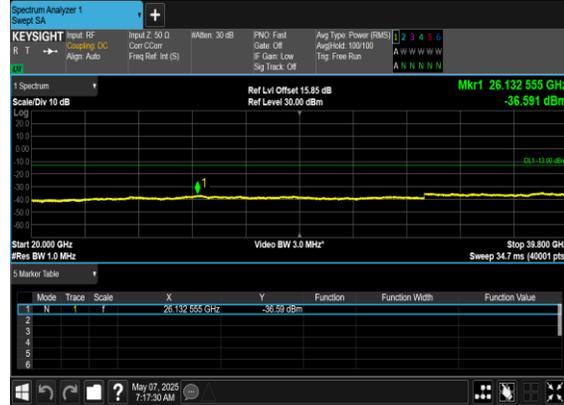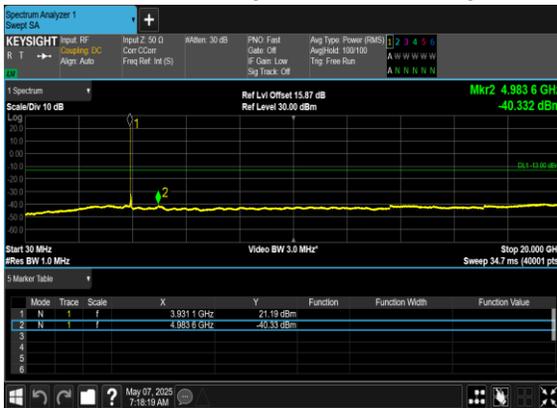

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

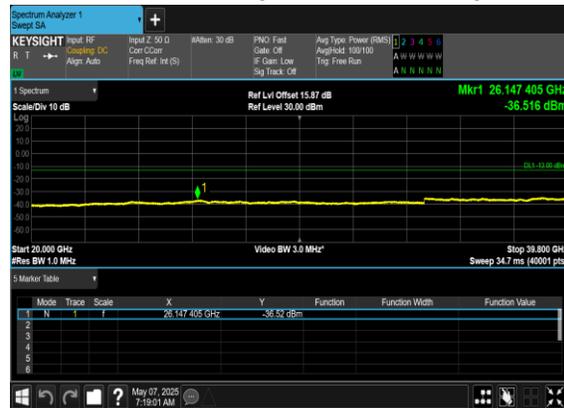N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH
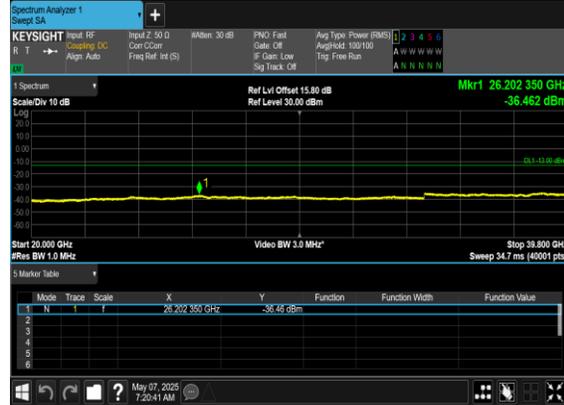

N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

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

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

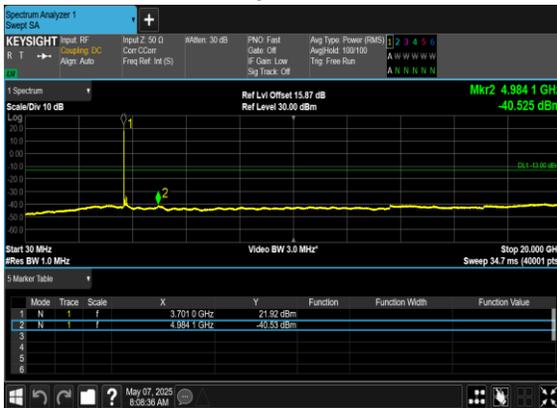N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH

N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH
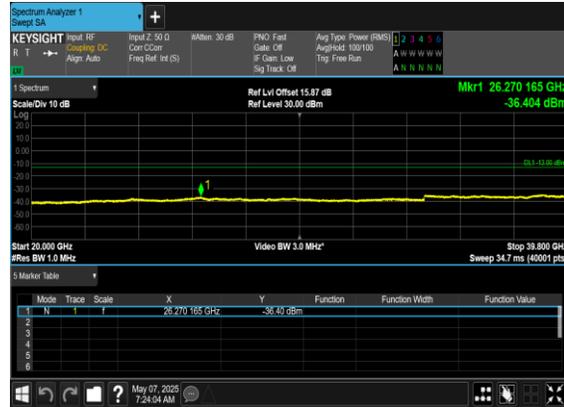

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OFDM_QPSK_Edge_1RB_Left_Low_CH
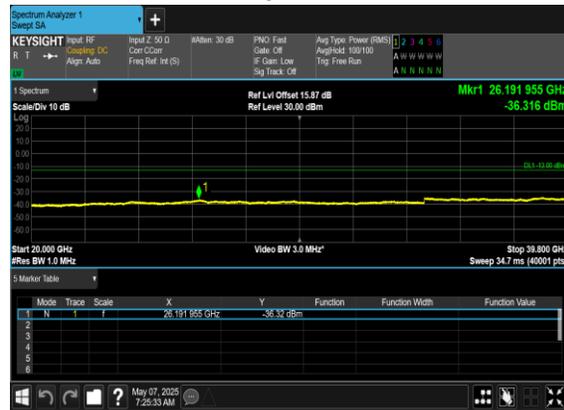
N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH

N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

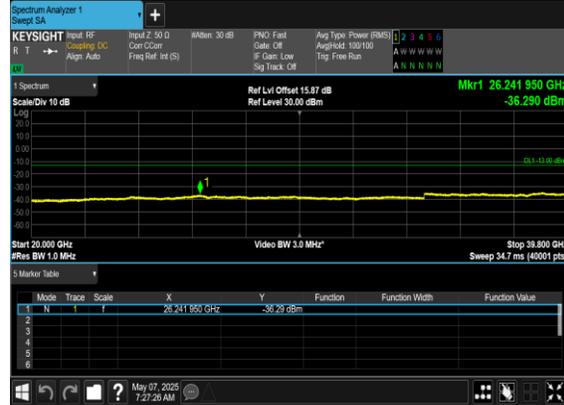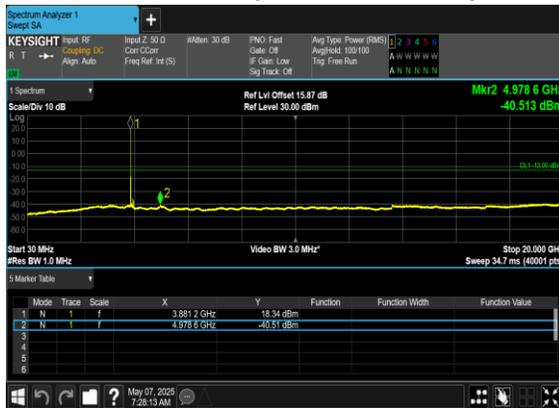### N77(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH

N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH

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**