

FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : 47 CFR Part 27 Subpart Q
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jul. 13, 2025 ~ Aug. 26, 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



Sporton International Inc. (ShenZhen)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG561202Q	Rev. 01	Initial issue of report	Sep. 01, 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 15.55 dB at 9222.00 MHz

Conformity Assessment Condition:

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

Disclaimer:

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

1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

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

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
IMEI Code	Conducted : 867621080022994/867621080022986 Radiation : 867621080023190/867621080023182
HW Version	11
SW Version	OxygenOS 16.0
EUT Stage	Production Unit

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(30kHz): 10 / 15 / 20 / 25 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100MHz
Antenna Gain	<Ant. 4/10/13> 5G NR n77/78: -2 dBi <Ant. 12> 5G NR n77/78: -1 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and max antenna gain, only the maximum EIRP is shown in the report, 5G NR n77/n78 for Antenna 10.
2. For conducted test items, only the worse test data of Ant.10 are shown in the report according to the maximum conducted power.
3. 5G NR n77/n78 support SA and NSA mode. The whole testing has assessed SA mode for n77 by referring to the higher conducted power for conducted test items.
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		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	0.3420	8M57G7D	0.2716	8M58W7D
15	3457.50 ~ 3542.49	0.3412	13M6G7D	0.2667	13M6W7D
20	3460.02 ~ 3540.00	0.3483	18M2G7D	0.2698	18M2W7D
25	3462.51 ~ 3537.48	0.3483	23M2G7D	0.2767	23M3W7D
30	3465.00 ~ 3534.99	0.3532	27M8G7D	0.2786	27M9W7D
40	3470.01 ~ 3529.98	0.3499	37M8G7D	0.2761	37M9W7D
50	3475.02 ~ 3525.00	0.3648	47M4G7D	0.2831	47M6W7D
60	3480.00 ~ 3519.99	0.3420	57M8G7D	0.2735	57M9W7D
70	3485.01 ~ 3514.98	0.3556	67M5G7D	0.2805	67M6W7D
80	3490.02 ~ 3510.00	0.3589	77M5G7D	0.2884	77M8W7D
90	3495.00 ~ 3504.99	0.3499	87M5G7D	0.2786	87M6W7D
100	3500.01	0.3690	97M6G7D	0.2897	97M5W7D

5G NR n78		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	0.3243	8M57G7D	0.2588	8M58W7D
15	3457.50 ~ 3542.49	0.3296	13M6G7D	0.2576	13M6W7D
20	3460.02 ~ 3540.00	0.3319	18M2G7D	0.2649	18M2W7D
25	3462.51 ~ 3537.48	0.3443	23M2G7D	0.2799	23M3W7D
30	3465.00 ~ 3534.99	0.3573	27M8G7D	0.2891	27M9W7D
40	3470.01 ~ 3529.98	0.3516	37M8G7D	0.2786	37M9W7D
50	3475.02 ~ 3525.00	0.3664	47M4G7D	0.2818	47M6W7D
60	3480.00 ~ 3519.99	0.3436	57M8G7D	0.2723	57M9W7D
70	3485.01 ~ 3514.98	0.3499	67M5G7D	0.2716	67M6W7D
80	3490.02 ~ 3510.00	0.3524	77M5G7D	0.2742	77M8W7D
90	3495.00 ~ 3504.99	0.3508	87M5G7D	0.2735	87M6W7D
100	3500.01	0.3673	97M6G7D	0.2618	97M5W7D

Note:

- 5G NR Band n77 overlaps the entire frequency range of Band n78, and n77 power > n78 power, therefore the conducted test results of n77 provided in this report cover n78.

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

1.7 Testing 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

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.

2 Test Configuration of Equipment Under Test

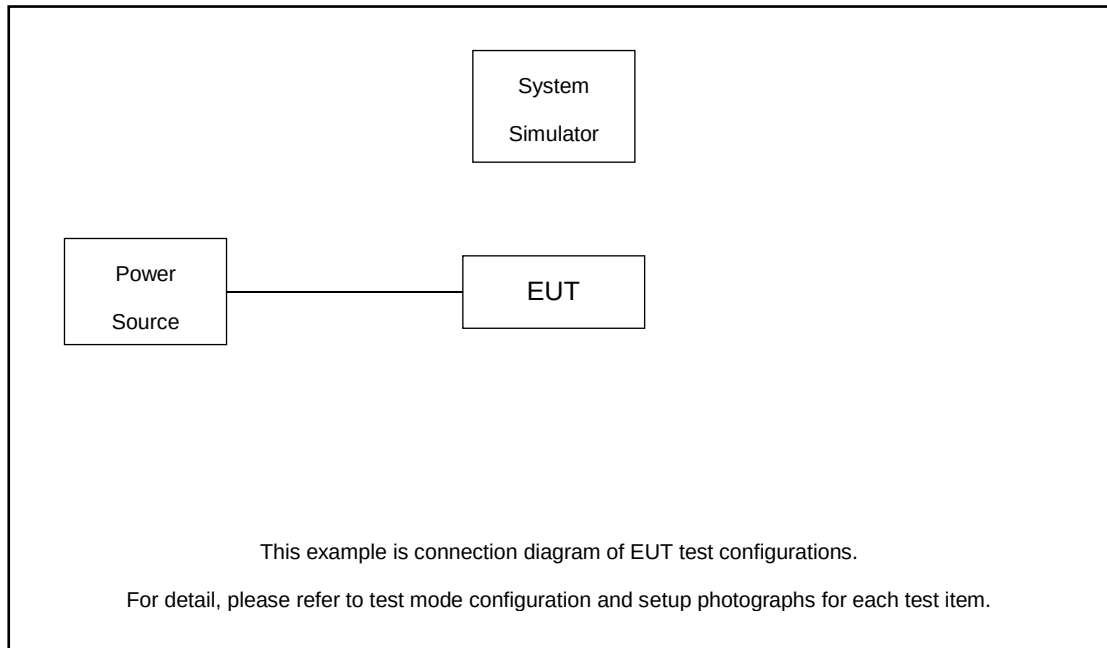
2.1 Test Mode

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 Items	5G NR	Bandwidth (MHz)										Modulation					RB #			Test Channel			
		10	15	20	25	30	40	50	60	70~90	100	PI/2 BPSK	QPSK	16QAM	64QAM	256 QAM	1	Partial	Full	L	M	H	
Max. Output Power	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
Peak-to-Average Ratio	n77			v								v	v						v		v		
26dB and 99% Bandwidth	n77	v	v	v	v	v	v	v	v	v	v		v	v	v	v			v		v		
Conducted Band Edge	n77	v						v			v	v	v				v		v	v		v	
Conducted Spurious Emission	n77	v						v			v	v	v				v			v	v	v	
Frequency Stability	n77			v									v						v		v		
E.I.R.P	n77	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
	n78	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v	v	v	
Radiated Spurious Emission	n77	Worst Case																				v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. Frequency Stability : Normal Voltage = 8.0V; Low Voltage =7.2V; High Voltage =9.0V.																						

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	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 :

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

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List for SCS 30kHz				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
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

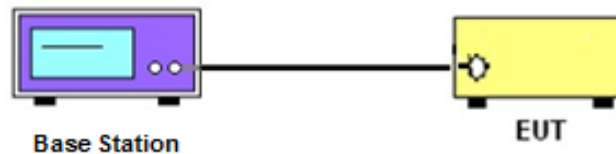
3 Conducted Test Items

3.1 Measuring Instruments

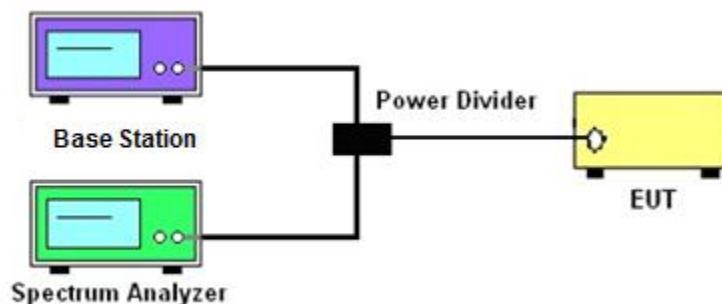
See list of measuring instruments of this test report.

3.2 Test Setup

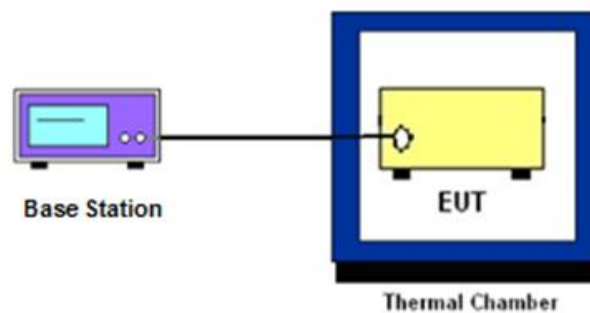
3.2.1 Conducted Output Power



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.

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 $\geq 1\%$ 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 ≥ 500 KHz.
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.

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.

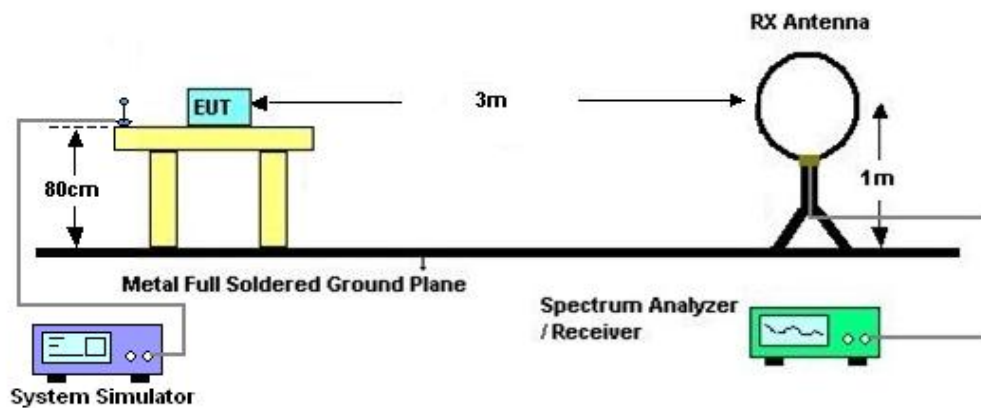
4 Radiated Test Items

4.1 Measuring Instruments

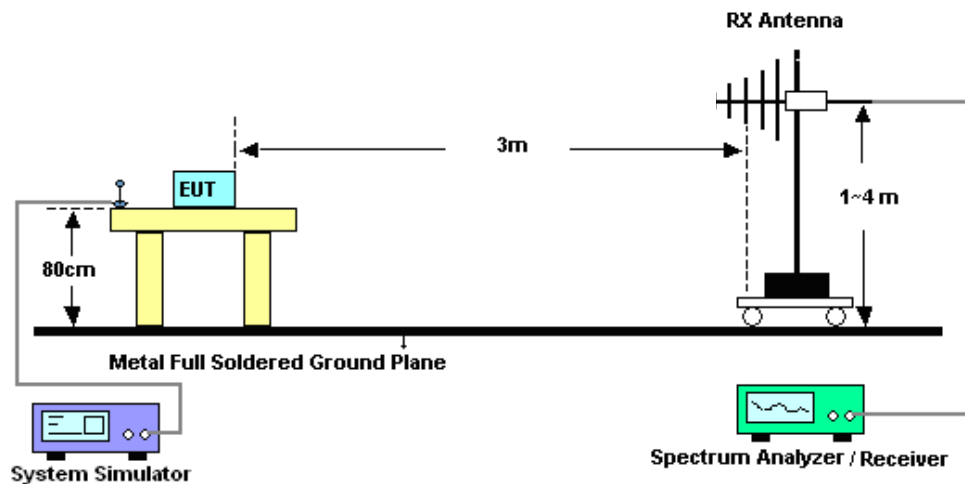
See list of measuring instruments of this test report.

4.2 Test Setup

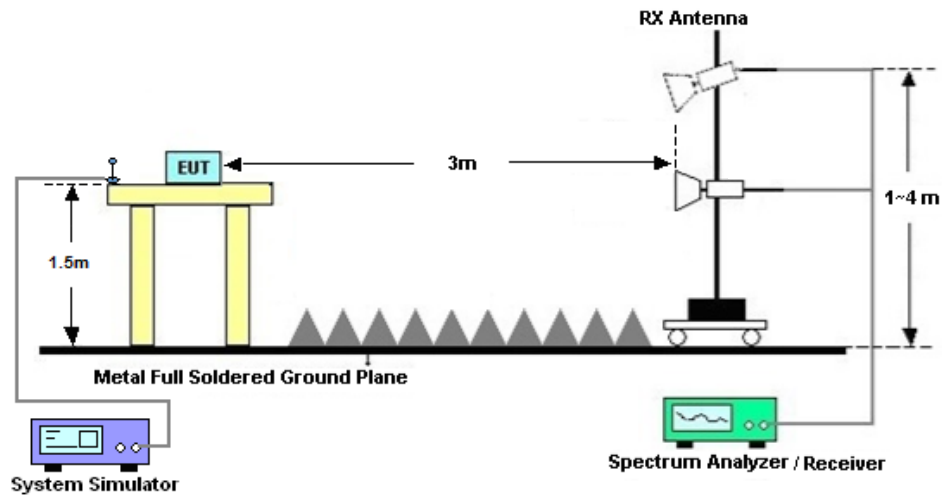
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



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

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	Jul. 13, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct.14,2024	Jul. 13, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 24, 2024	Jul. 13, 2025	Dec. 23, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Jul. 13, 2025	Jul. 01, 2026	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Aug. 26, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 26, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Aug. 26, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 26, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 26, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 03, 2025	Aug. 26, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Aug. 26, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Aug. 26, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Aug. 26, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 26, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 26, 2025	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

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

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Peak to Average Ratio	± 1.34 dB
Frequency Stability	± 1.3 Hz

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.72 dB
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Appendix A. Test Results of Conducted Test

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



FR1 N77-Ant 10

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

NR Band	SCS	BandWidth	Arfcn	Freq(MHz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	12@6	27.08	25.08	0.3221
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@1	27.05	25.05	0.3199
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@22	26.97	24.97	0.3141
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	12@6	26.1	24.1	0.2570
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@1	26.08	24.08	0.2559
77	30	10	630334	3455.01	DFT-s-OFDM 16 QAM	1@22	26.02	24.02	0.2523
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	12@6	27.27	25.27	0.3365
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.26	25.26	0.3357
77	30	10	633334	3500.01	DFT-s-OFDM QPSK	1@22	27.16	25.16	0.3281
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	12@6	26.28	24.28	0.2679
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.26	24.26	0.2667
77	30	10	633334	3500.01	DFT-s-OFDM 16 QAM	1@22	26.18	24.18	0.2618
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	12@6	27.28	25.28	0.3373
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@1	27.34	25.34	0.3420
77	30	10	636332	3544.98	DFT-s-OFDM QPSK	1@22	27.11	25.11	0.3243
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	12@6	26.34	24.34	0.2716
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@1	26.3	24.3	0.2692
77	30	10	636332	3544.98	DFT-s-OFDM 16 QAM	1@22	26.28	24.28	0.2679
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	18@9	27.14	25.14	0.3266
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@1	27.08	25.08	0.3221
77	30	15	630500	3457.5	DFT-s-OFDM QPSK	1@36	27.1	25.1	0.3236
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	18@9	26.07	24.07	0.2553
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@1	26.15	24.15	0.2600
77	30	15	630500	3457.5	DFT-s-OFDM 16 QAM	1@36	26.2	24.2	0.2630
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	18@9	27.28	25.28	0.3373
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.17	25.17	0.3289
77	30	15	633334	3500.01	DFT-s-OFDM QPSK	1@36	27.15	25.15	0.3273
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	18@9	26.16	24.16	0.2606
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.17	24.17	0.2612
77	30	15	633334	3500.01	DFT-s-OFDM 16 QAM	1@36	26.19	24.19	0.2624
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	18@9	27.27	25.27	0.3365
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@1	27.33	25.33	0.3412
77	30	15	636166	3542.49	DFT-s-OFDM QPSK	1@36	27.06	25.06	0.3206
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	18@9	26.13	24.13	0.2588



77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@1	26.26	24.26	0.2667
77	30	15	636166	3542.49	DFT-s-OFDM 16 QAM	1@36	26.08	24.08	0.2559
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	27.3	25.3	0.3388
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	27.17	25.17	0.3289
77	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	27.09	25.09	0.3228
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	26.2	24.2	0.2630
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	26.14	24.14	0.2594
77	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	26.22	24.22	0.2642
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	27.29	25.29	0.3381
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.18	25.18	0.3296
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	27.1	25.1	0.3236
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	26.2	24.2	0.2630
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.22	24.22	0.2642
77	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	26.25	24.25	0.2661
77	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	27.41	25.41	0.3475
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	27.42	25.42	0.3483
77	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	27.06	25.06	0.3206
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	26.31	24.31	0.2698
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	26.29	24.29	0.2685
77	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	26.06	24.06	0.2547
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	32@16	27.31	25.31	0.3396
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@1	27.24	25.24	0.3342
77	30	25	630834	3462.51	DFT-s-OFDM QPSK	1@63	27.21	25.21	0.3319
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	32@16	26.24	24.24	0.2655
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@1	26.23	24.23	0.2649
77	30	25	630834	3462.51	DFT-s-OFDM 16 QAM	1@63	26.29	24.29	0.2685
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	32@16	27.35	25.35	0.3428
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.32	25.32	0.3404
77	30	25	633334	3500.01	DFT-s-OFDM QPSK	1@63	-36.62	-38.62	0.0000
77	30	25	633334	3500.01	DFT-s-OFDM 16 QAM	32@16	26.32	24.32	0.2704
77	30	25	633334	3750	DFT-s-OFDM 16 QAM	1@1	25.44	23.44	0.2208
77	30	25	633334	3750	DFT-s-OFDM 16 QAM	1@63	25.2	23.2	0.2089
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	32@16	27.41	25.41	0.3475
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@1	27.42	25.42	0.3483
77	30	25	635832	3537.48	DFT-s-OFDM QPSK	1@63	27.17	25.17	0.3289
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	32@16	26.3	24.3	0.2692
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@1	26.42	24.42	0.2767
77	30	25	635832	3537.48	DFT-s-OFDM 16 QAM	1@63	26.25	24.25	0.2661
77	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	27.3	25.3	0.3388
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	27.24	25.24	0.3342
77	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	27.12	25.12	0.3251
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	26.24	24.24	0.2655



77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	26.25	24.25	0.2661
77	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	26.16	24.16	0.2606
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	27.4	25.4	0.3467
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.33	25.33	0.3412
77	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	27.15	25.15	0.3273
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	26.33	24.33	0.2710
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.37	24.37	0.2735
77	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	26.28	24.28	0.2679
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	27.41	25.41	0.3475
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	27.48	25.48	0.3532
77	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	27.19	25.19	0.3304
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	26.32	24.32	0.2704
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	26.45	24.45	0.2786
77	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	26.21	24.21	0.2636
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	27.39	25.39	0.3459
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	27.16	25.16	0.3281
77	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	27.1	25.1	0.3236
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	26.11	24.11	0.2576
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	26.24	24.24	0.2655
77	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	26.05	24.05	0.2541
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	27.41	25.41	0.3475
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.37	25.37	0.3443
77	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	27.13	25.13	0.3258
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	26.31	24.31	0.2698
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.21	24.21	0.2636
77	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	26.09	24.09	0.2564
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	27.44	25.44	0.3499
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	27.41	25.41	0.3475
77	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	27.08	25.08	0.3221
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	26.33	24.33	0.2710
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	26.41	24.41	0.2761
77	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	26.05	24.05	0.2541
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	27.54	25.54	0.3581
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	27.38	25.38	0.3451
77	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	27.25	25.25	0.3350
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	26.39	24.39	0.2748
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	26.39	24.39	0.2748
77	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	26.41	24.41	0.2761
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	27.62	25.62	0.3648
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.43	25.43	0.3491
77	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	27.25	25.25	0.3350
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	26.52	24.52	0.2831



77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.5	24.5	0.2818
77	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	26.36	24.36	0.2729
77	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	27.57	25.57	0.3606
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	27.56	25.56	0.3597
77	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	27.19	25.19	0.3304
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	26.49	24.49	0.2812
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	26.52	24.52	0.2831
77	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	26.18	24.18	0.2618
77	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	27.18	25.18	0.3296
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	27.16	25.16	0.3281
77	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	27.22	25.22	0.3327
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	26.1	24.1	0.2570
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	26.24	24.24	0.2655
77	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	26.08	24.08	0.2559
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	27.24	25.24	0.3342
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.34	25.34	0.3420
77	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	27.11	25.11	0.3243
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	26.13	24.13	0.2588
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.37	24.37	0.2735
77	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	26.15	24.15	0.2600
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	27.3	25.3	0.3388
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	27.34	25.34	0.3420
77	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	27	25	0.3162
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	26.23	24.23	0.2649
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	26.35	24.35	0.2723
77	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	26.05	24.05	0.2541
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	27.2	25.2	0.3311
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	27	25	0.3162
77	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	27.22	25.22	0.3327
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	25.89	23.89	0.2449
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	26.03	24.03	0.2529
77	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	26.21	24.21	0.2636
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	27.34	25.34	0.3420
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.29	25.29	0.3381
77	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	27.08	25.08	0.3221
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	26.22	24.22	0.2642
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.44	24.44	0.2780
77	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	26	24	0.2512
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	27.51	25.51	0.3556
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	27.38	25.38	0.3451
77	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	26.8	24.8	0.3020
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	26.32	24.32	0.2704



77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	26.48	24.48	0.2805
77	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	25.83	23.83	0.2415
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	27.4	25.4	0.3467
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	27.15	25.15	0.3273
77	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	27.23	25.23	0.3334
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	26.21	24.21	0.2636
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	26.12	24.12	0.2582
77	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	26.2	24.2	0.2630
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	27.47	25.47	0.3524
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.26	25.26	0.3357
77	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	26.94	24.94	0.3119
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	26.34	24.34	0.2716
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.37	24.37	0.2735
77	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	25.99	23.99	0.2506
77	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	27.53	25.53	0.3573
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	27.55	25.55	0.3589
77	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	26.97	24.97	0.3141
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	26.48	24.48	0.2805
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	26.6	24.6	0.2884
77	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	25.94	23.94	0.2477
77	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	27.44	25.44	0.3499
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	27.31	25.31	0.3396
77	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	26.99	24.99	0.3155
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	26.28	24.28	0.2679
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	26.3	24.3	0.2692
77	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	26.08	24.08	0.2559
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	27.4	25.4	0.3467
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.31	25.31	0.3396
77	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	26.9	24.9	0.3090
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	-28.44	-30.44	0.0000
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.33	24.33	0.2710
77	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	25.92	23.92	0.2466
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	27.44	25.44	0.3499
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	27.42	25.42	0.3483
77	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	26.91	24.91	0.3097
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	26.35	24.35	0.2723
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	26.45	24.45	0.2786
77	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	26	24	0.2512
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	27.24	25.24	0.3342
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	27.27	25.27	0.3365
77	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	26.84	24.84	0.3048
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	27.67	25.67	0.3690



77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	27.64	25.64	0.3664
77	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	27.31	25.31	0.3396
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	26.61	24.61	0.2891
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.62	24.62	0.2897
77	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	26.26	24.26	0.2667
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	25.24	23.24	0.2109
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	25.13	23.13	0.2056
77	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	24.75	22.75	0.1884
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	23.23	21.23	0.1327
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	22.91	20.91	0.1233
77	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	22.61	20.61	0.1151
77	30	100	633334	3500.01	CP-OFDM QPSK	137@68	26.03	24.03	0.2529
77	30	100	633334	3500.01	CP-OFDM QPSK	1@1	26.19	24.19	0.2624
77	30	100	633334	3500.01	CP-OFDM QPSK	1@271	25.92	23.92	0.2466



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	11.2	PASS	NV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.9	PASS	LV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	12.2	PASS	HV
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.3	PASS	-30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.3	PASS	-20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	10.6	PASS	-10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.1	PASS	0℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	8.6	PASS	10℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.2	PASS	20℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.3	PASS	30℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	10.5	PASS	40℃
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	19.4	PASS	50℃

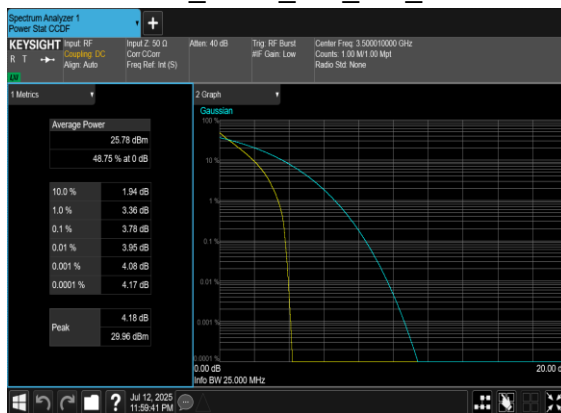
$|\text{MAX}(\Delta f)| = 19.4 \text{ Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.869181	$\geq 3450 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3548.791219	$\leq 3550 \text{ MHz}$	

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	3.78	13	PASS
77	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	4.33	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**

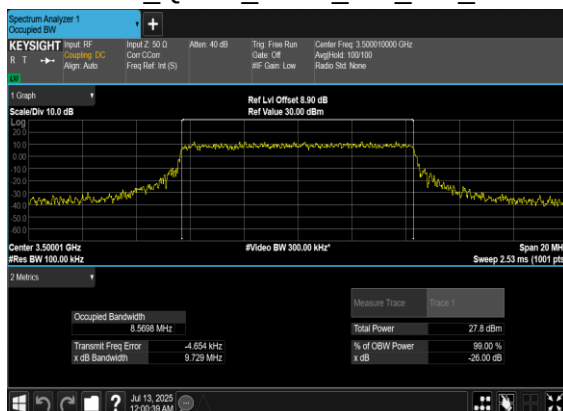
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
77	30	10	633334	3500.01	CP-OFDM QPSK	24@0	8.5698	9.729
77	30	10	633334	3500.01	CP-OFDM 16 QAM	24@0	8.5657	9.48
77	30	10	633334	3500.01	CP-OFDM 64 QAM	24@0	8.5772	9.46
77	30	10	633334	3500.01	CP-OFDM 256 QAM	24@0	8.5749	9.495
77	30	15	633334	3500.01	CP-OFDM QPSK	38@0	13.582	14.82
77	30	15	633334	3500.01	CP-OFDM 16 QAM	38@0	13.56	14.73
77	30	15	633334	3500.01	CP-OFDM 64 QAM	38@0	13.548	14.71
77	30	15	633334	3500.01	CP-OFDM 256 QAM	38@0	13.564	14.63
77	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.217	19.43
77	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.147	19.34
77	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.217	19.47
77	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.147	19.36
77	30	25	633334	3500.01	CP-OFDM QPSK	65@0	23.177	24.62
77	30	25	633334	3500.01	CP-OFDM 16 QAM	65@0	23.185	24.61
77	30	25	633334	3500.01	CP-OFDM 64 QAM	65@0	23.213	25.04
77	30	25	633334	3500.01	CP-OFDM 256 QAM	65@0	23.253	24.67
77	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.813	28.99
77	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.872	29.23
77	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.857	28.99
77	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.871	29.05
77	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.815	39.37
77	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.899	39.5
77	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.803	39.48
77	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.906	39.52
77	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.423	49.09
77	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.509	49.08
77	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.602	49.65
77	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.524	49.25
77	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.756	60.06
77	30	60	633334	3500.01	CP-OFDM	162@0	57.879	59.73



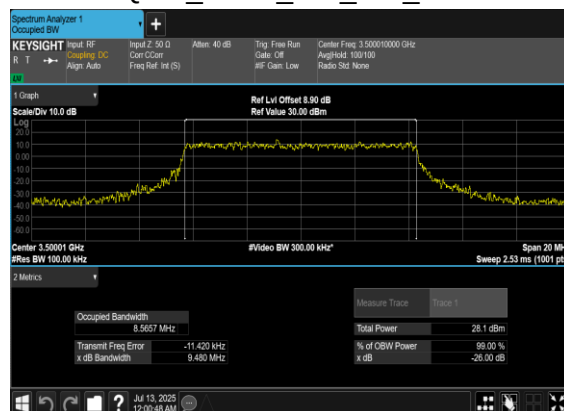
16 QAM									
77	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.838	60.09	
77	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.838	59.81	
77	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.544	69.7	
77	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.429	69.9	
77	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.617	70.0	
77	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.4	69.73	
77	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.464	80.0	
77	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.786	80.03	
77	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.509	80.2	
77	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.476	80.05	
77	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.485	90.34	
77	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.473	90.21	
77	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.493	90.23	
77	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.56	90.36	
77	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.626	100.5	
77	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.462	100.4	
77	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.407	100.7	
77	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.451	100.6	



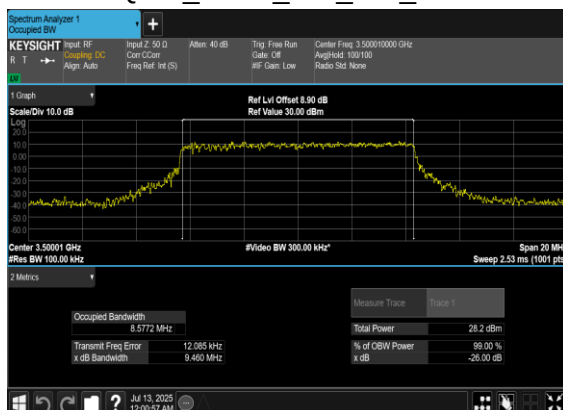
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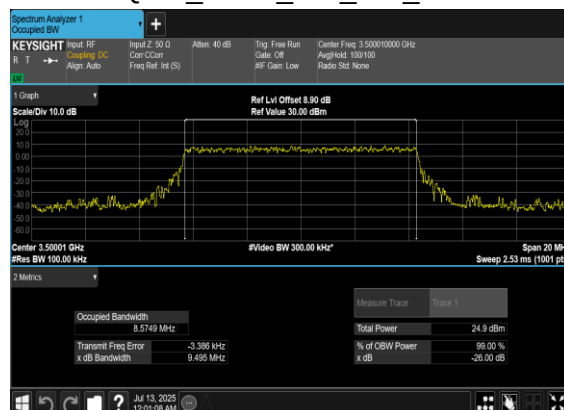
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QAM_Outer_Full_Mid_CH



N77(10M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

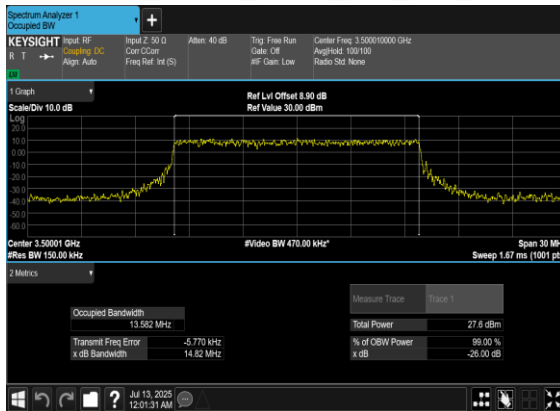


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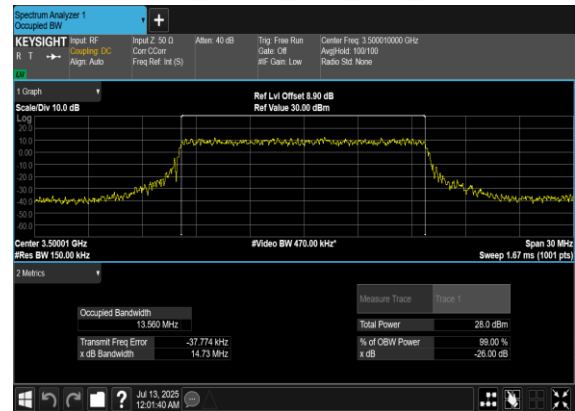




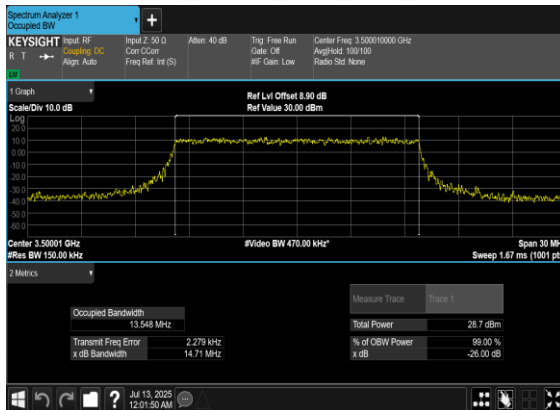
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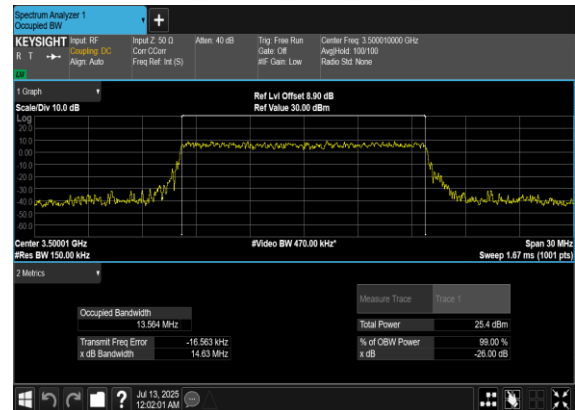
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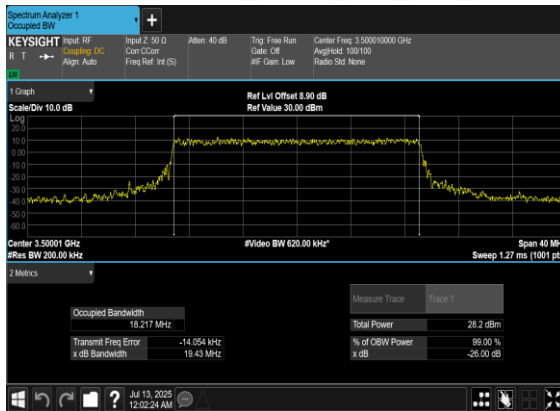


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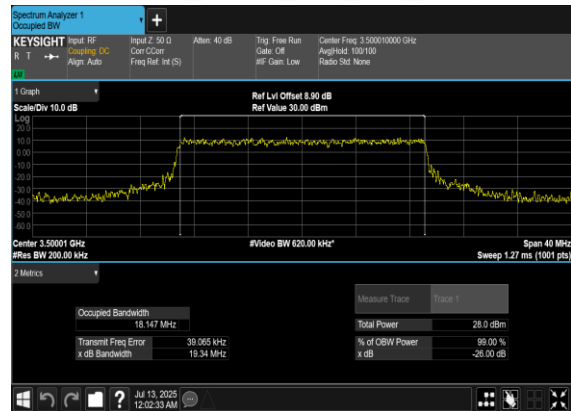




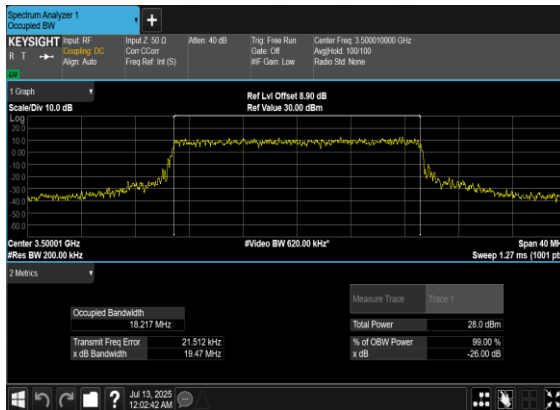
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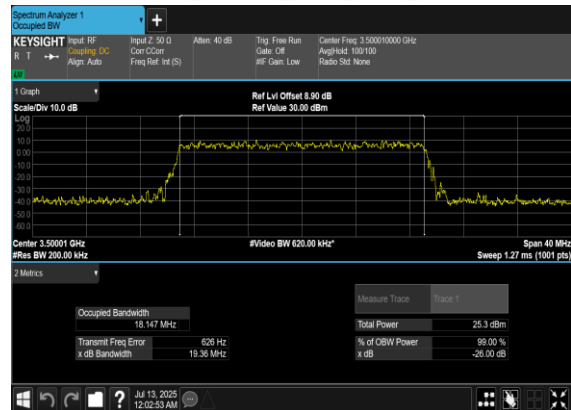
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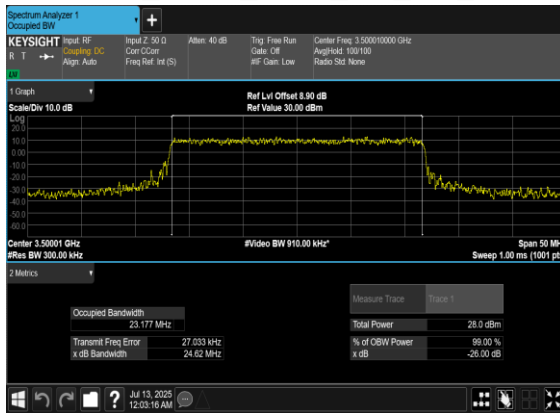


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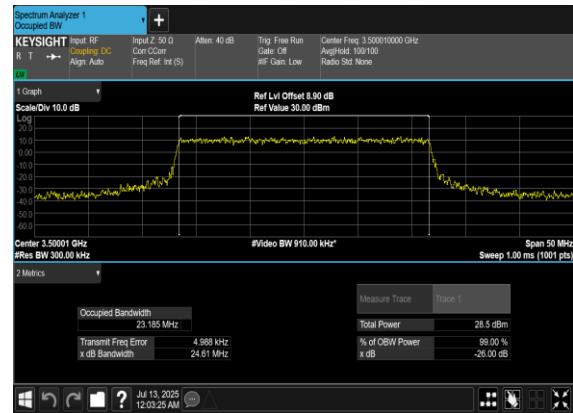




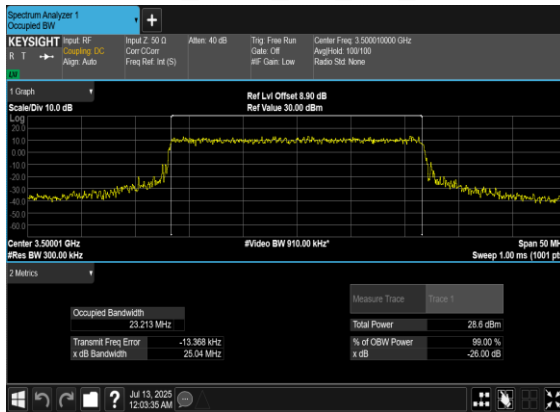
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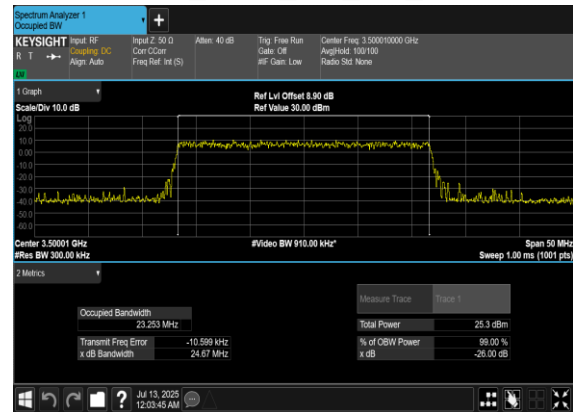
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QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(25M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

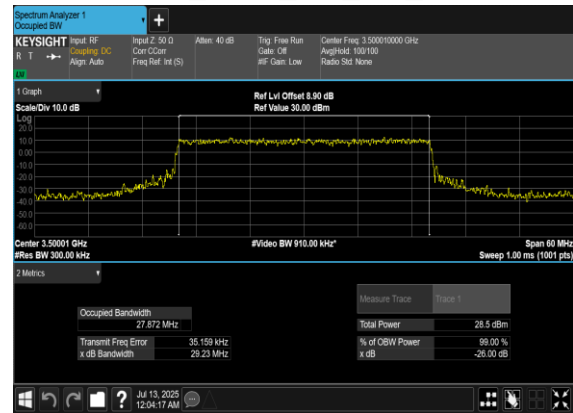




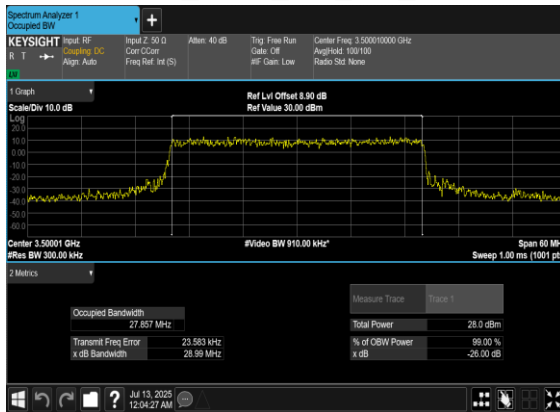
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OFDM_QPSK_Outer_Full_Mid_CH



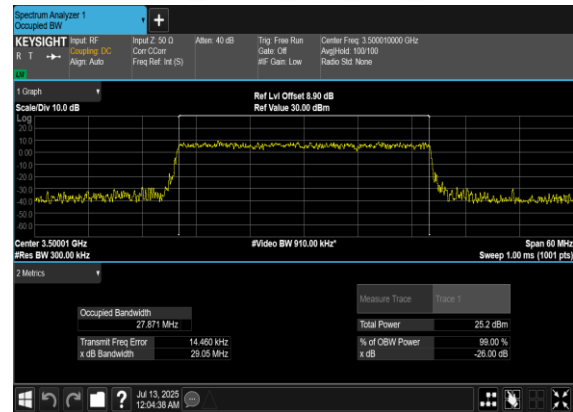
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QAM_Outer_Full_Mid_CH



N77(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

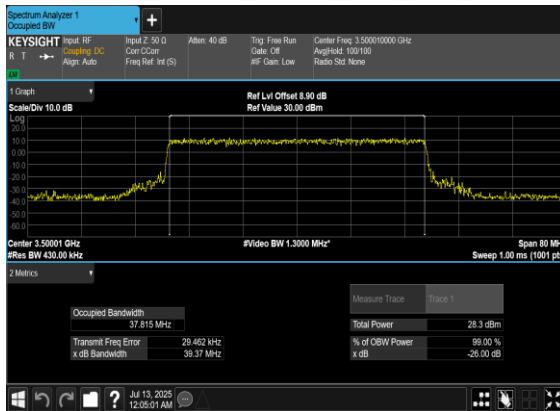


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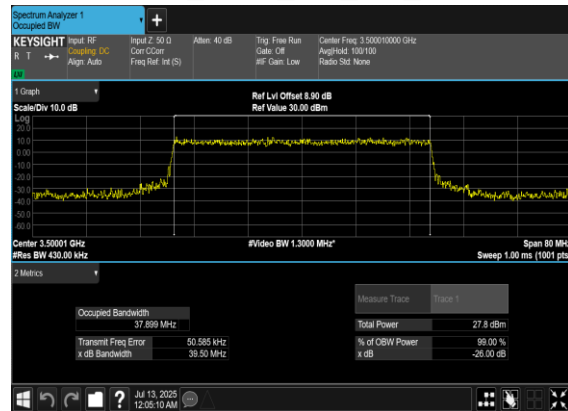




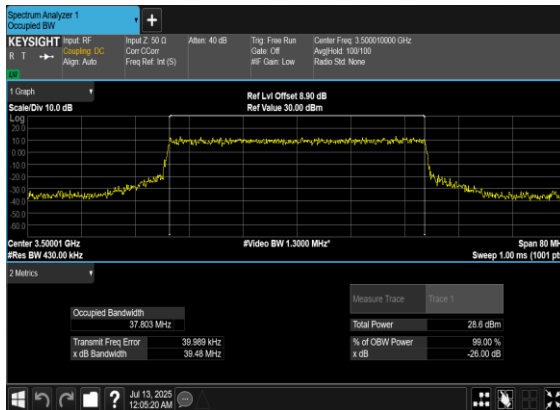
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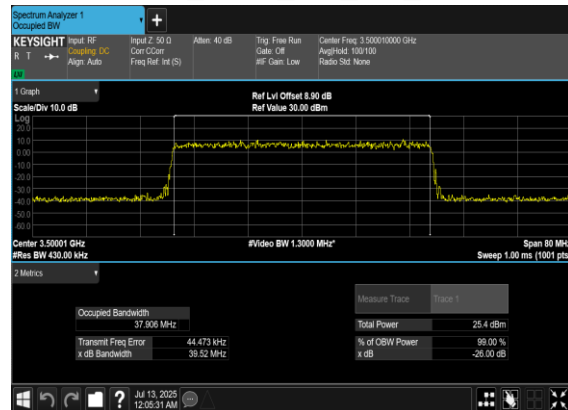
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QAM_Outer_Full_Mid_CH



N77(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

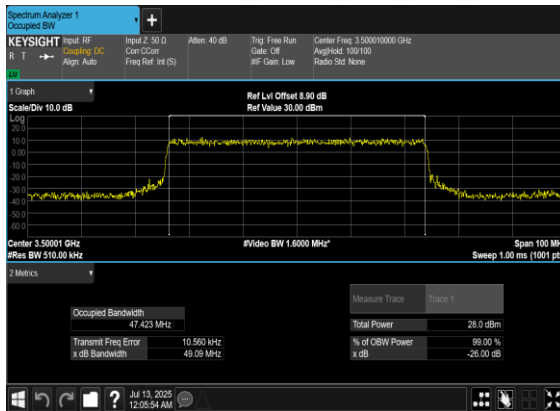


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QAM_Outer_Full_Mid_CH

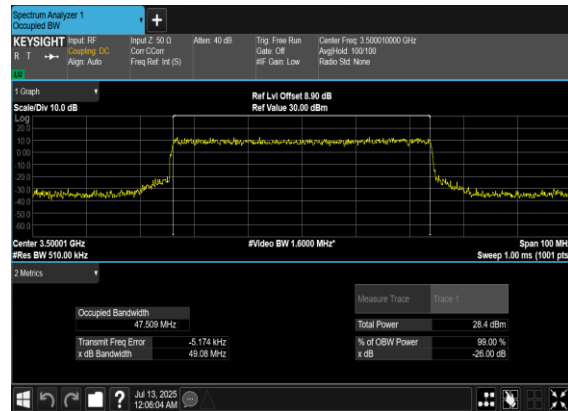




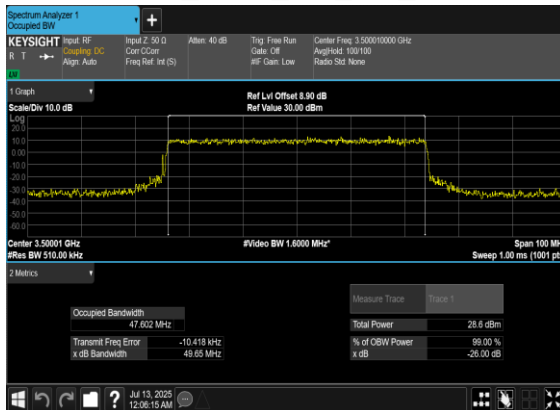
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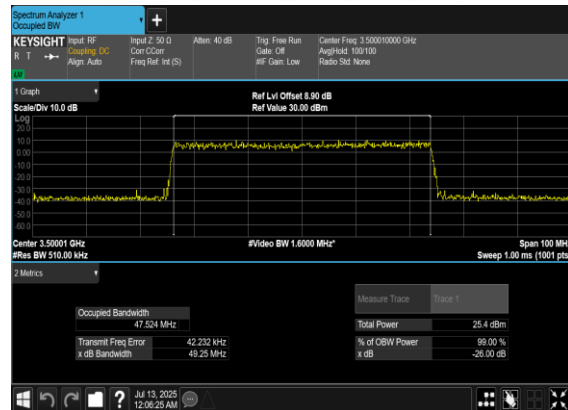
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QAM_Outer_Full_Mid_CH



N77(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

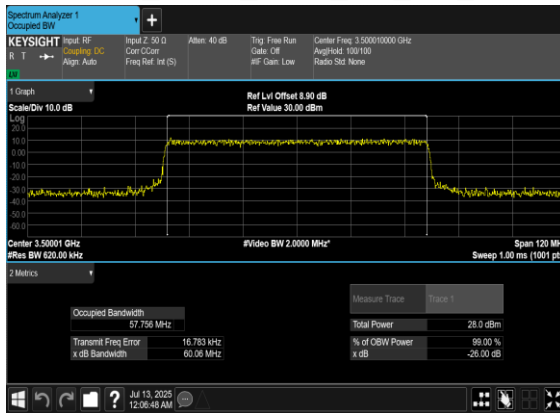


N77(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

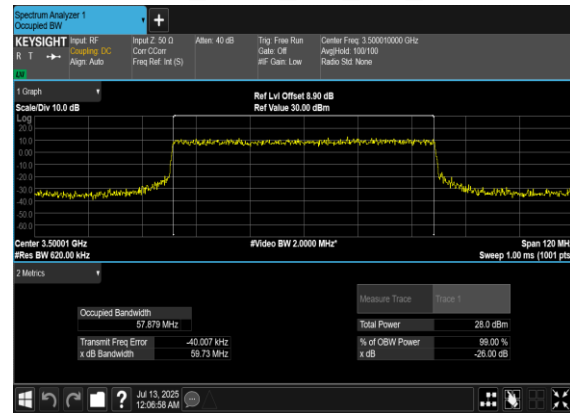




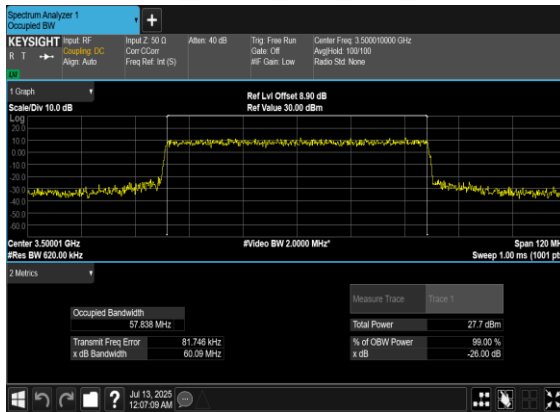
N77(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



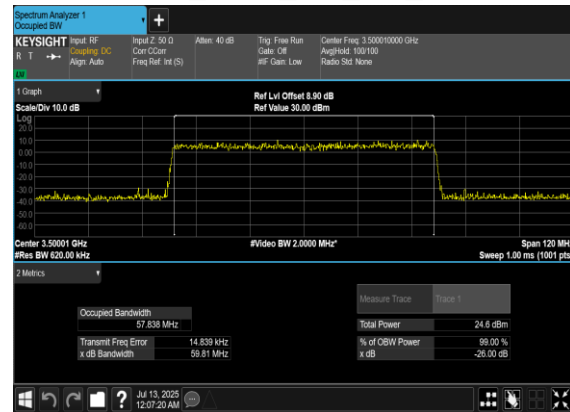
N77(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

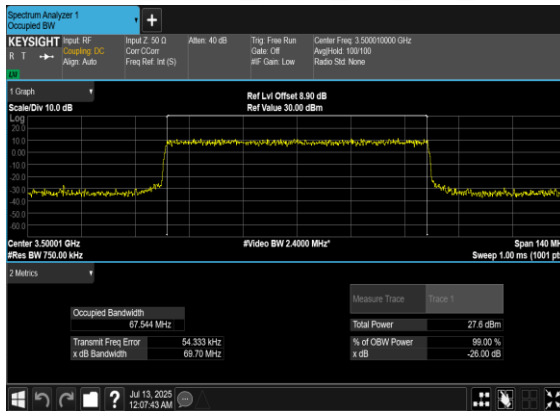


N77(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

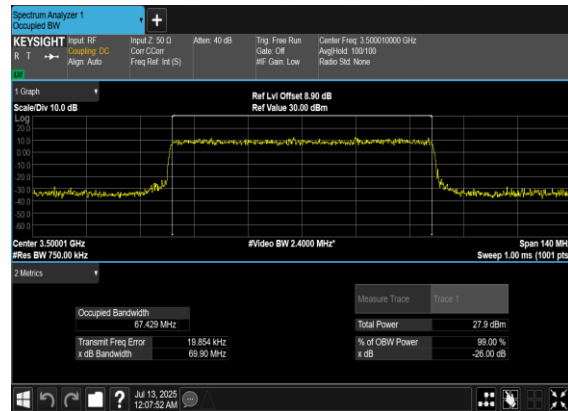




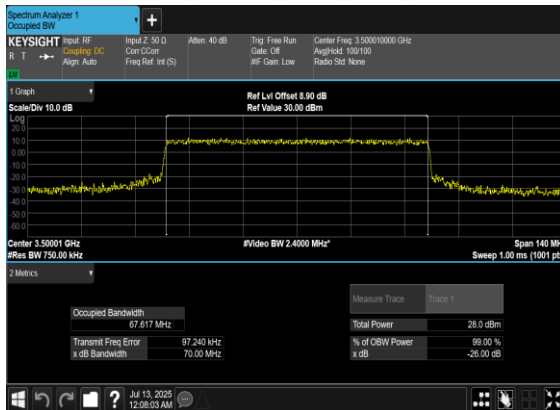
N77(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



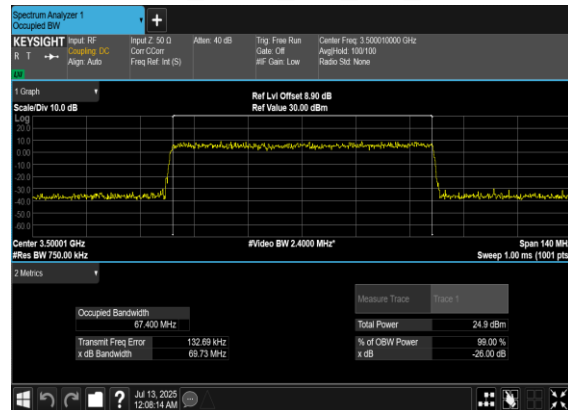
N77(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

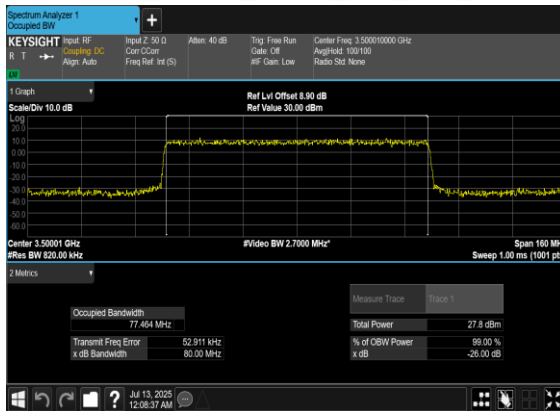


N77(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

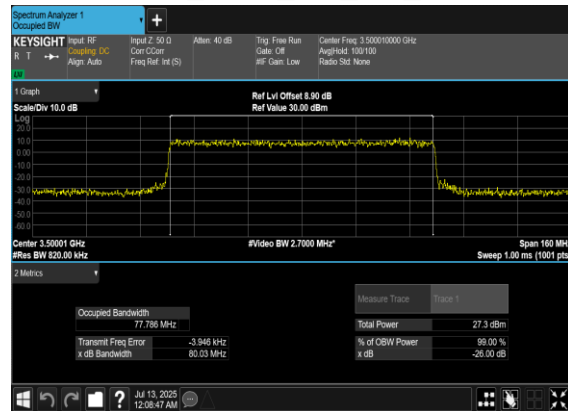




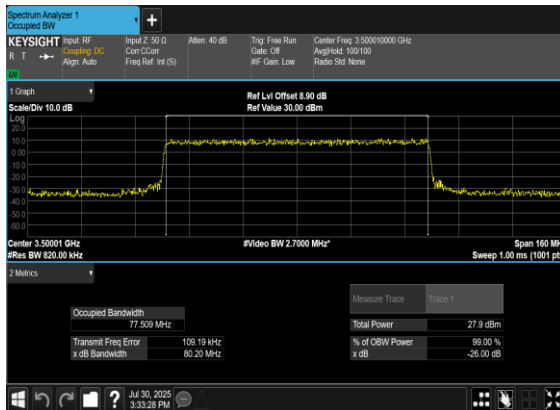
N77(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



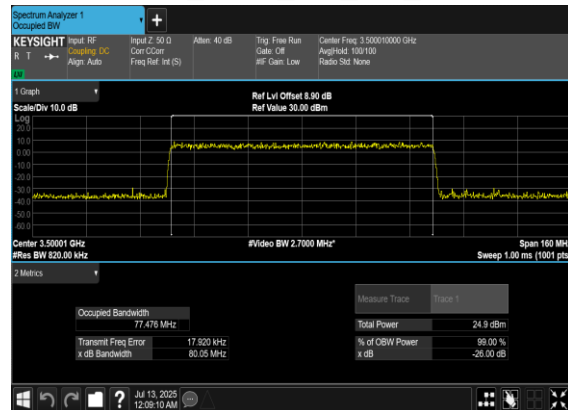
N77(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

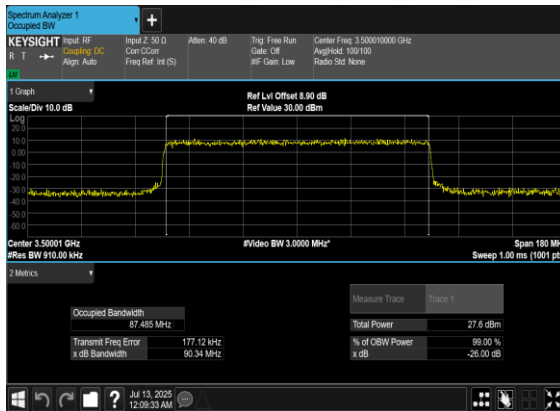


N77(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

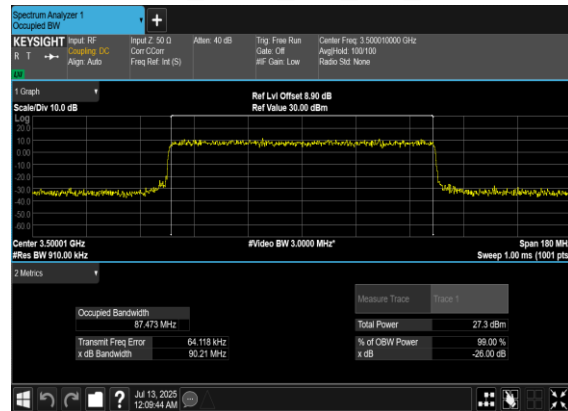




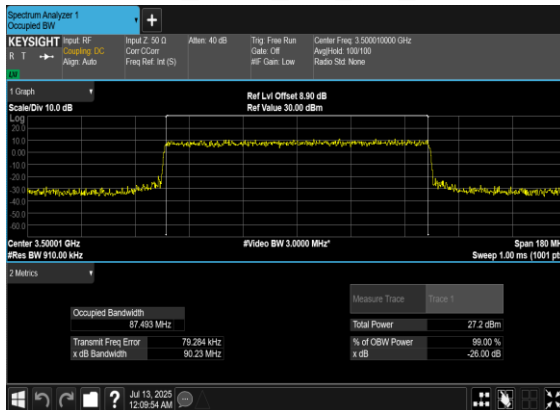
N77(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



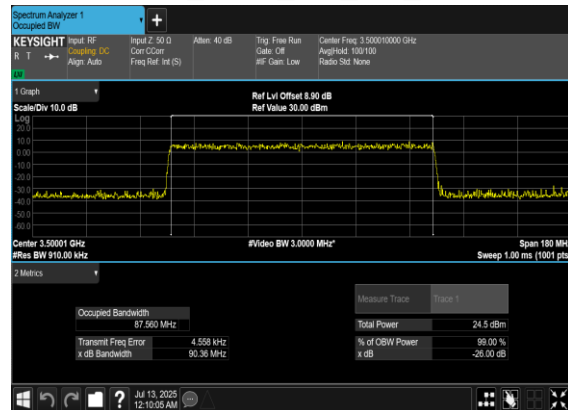
N77(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

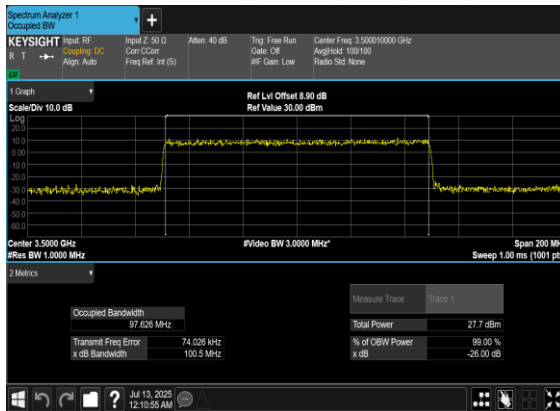


N77(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

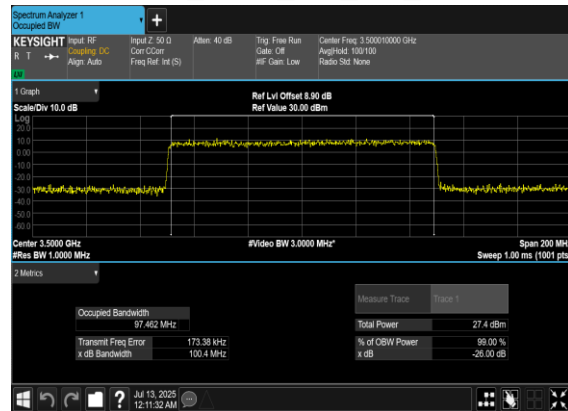




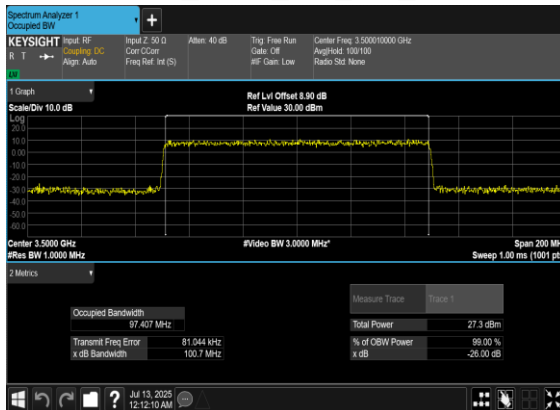
N77(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



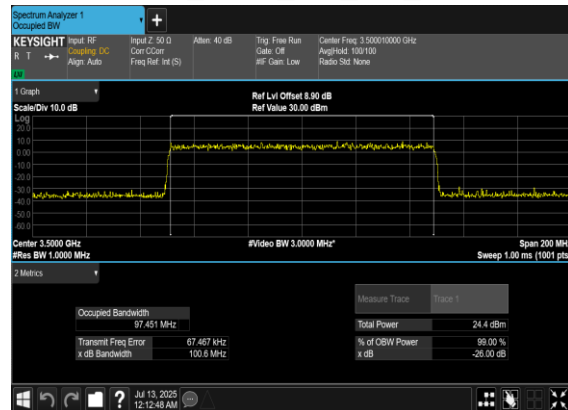
N77(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N77(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



**Conducted Spurious Emissions**

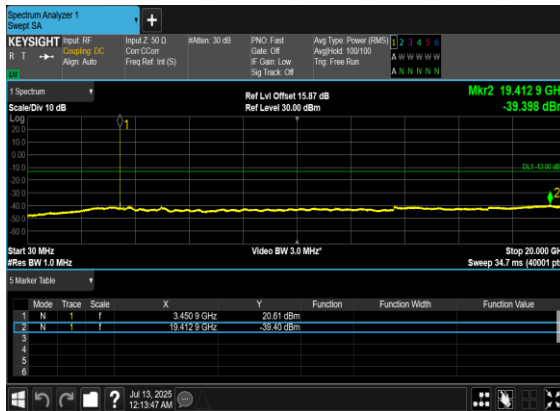
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	---
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
77	30	10	630334	3455.01	DFT-s-OFDM QPSK	1@0	see 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	1@0	see graph	PASS



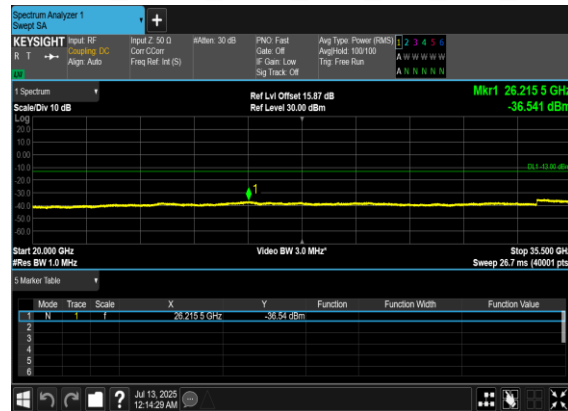
QPSK									
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	---	
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	50	635000	3525.0	DFT-s-OFDM BPSK	1@0	see graph	PASS	
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	---	
77	30	50	635000	3525.0	DFT-s-OFDM QPSK	1@0	see graph	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	



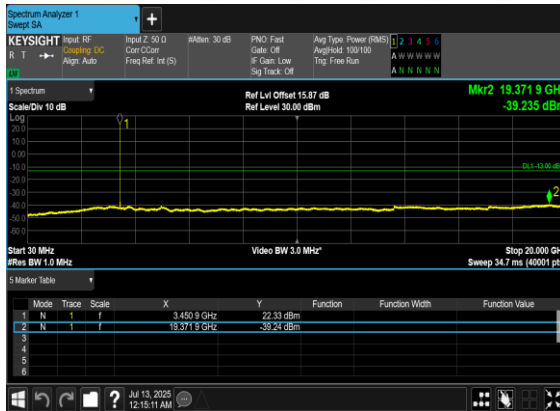
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



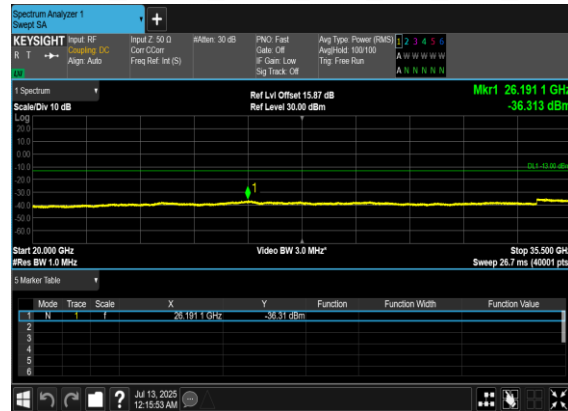
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

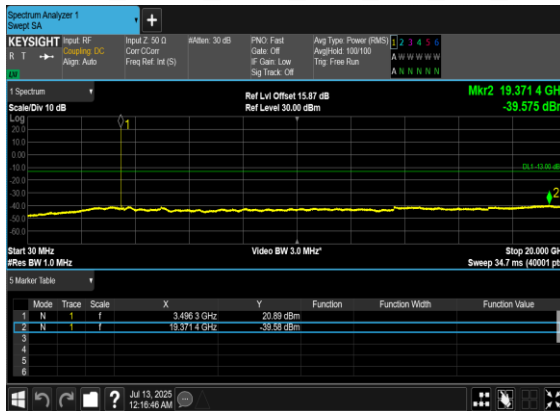


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

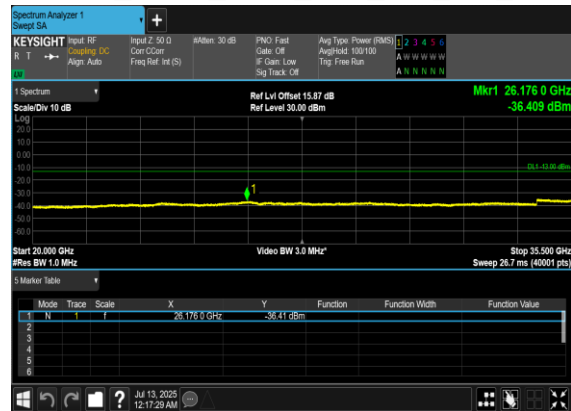




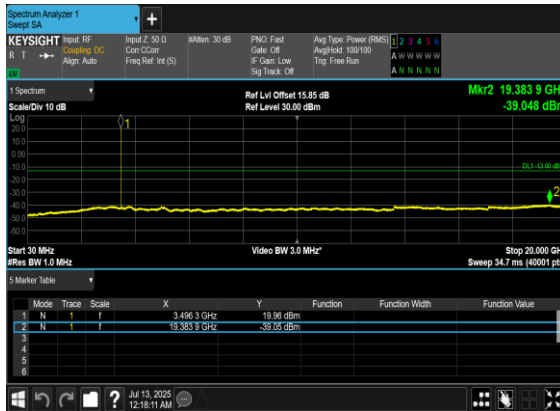
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



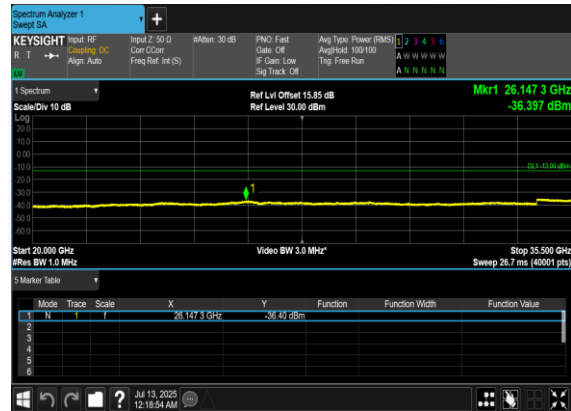
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

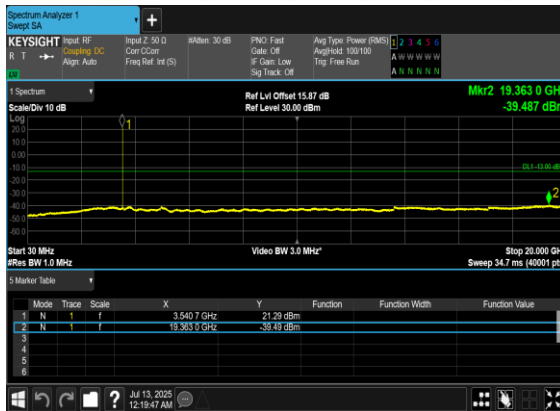


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

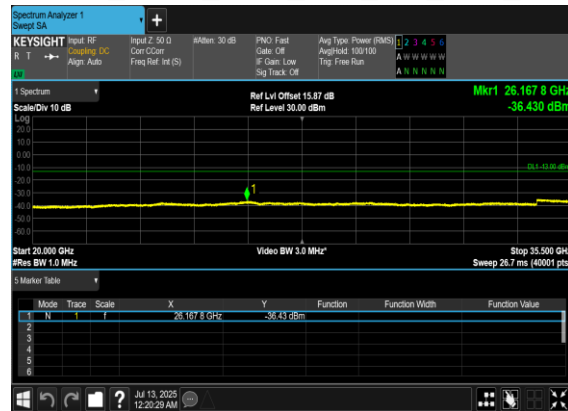




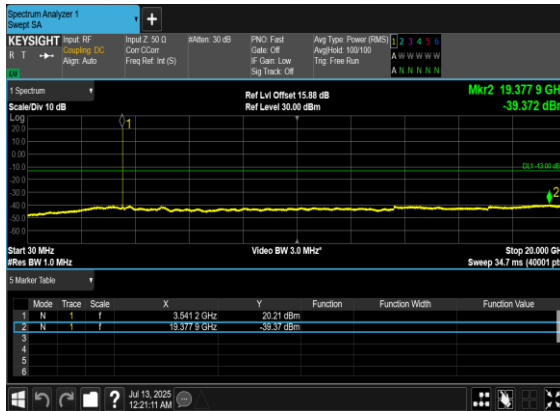
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



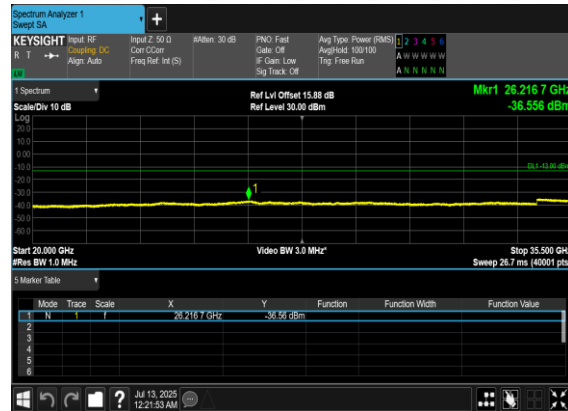
N77(10M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

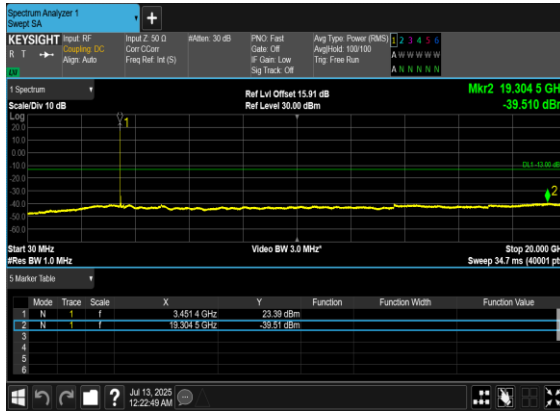


N77(10M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

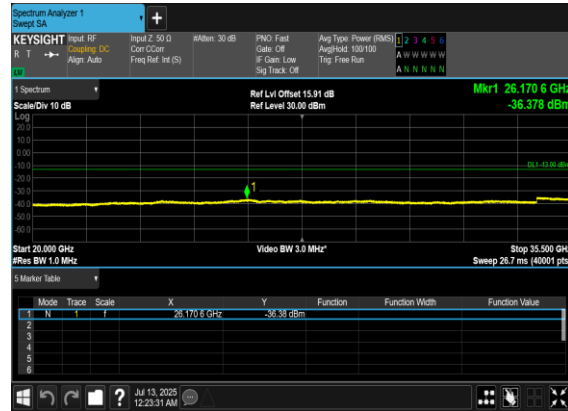




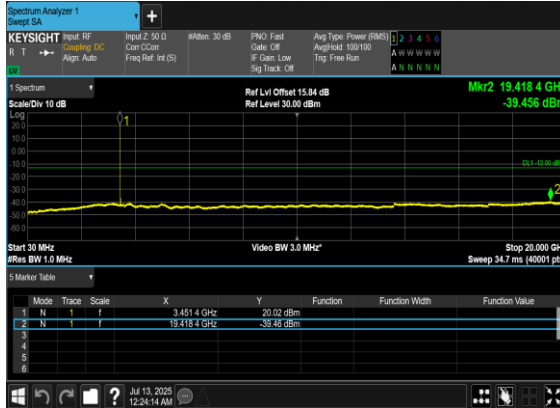
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

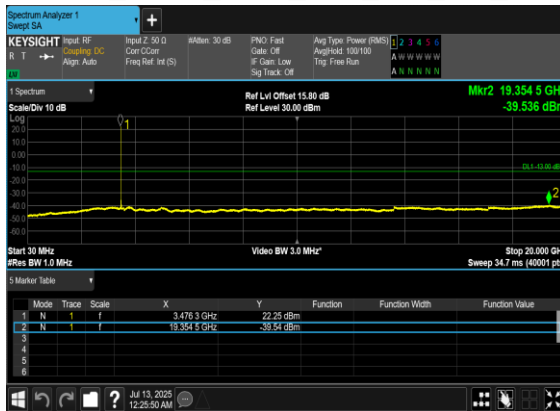


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

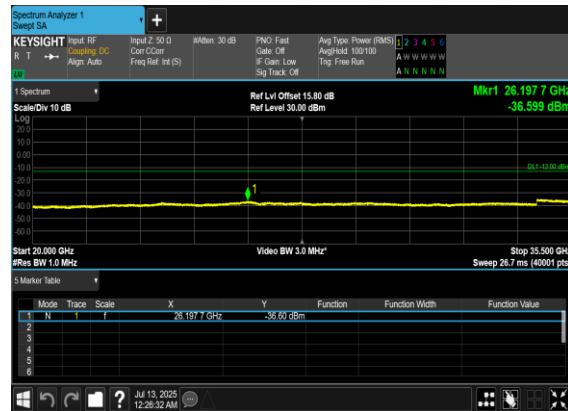




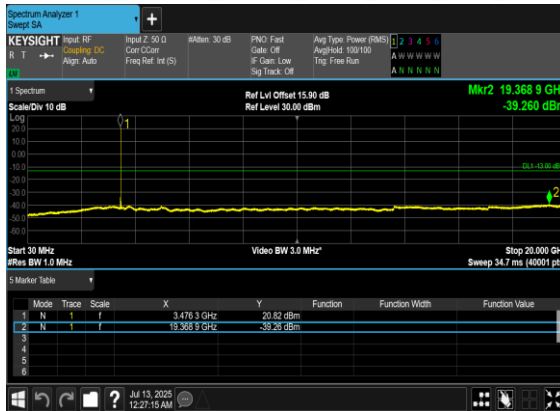
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



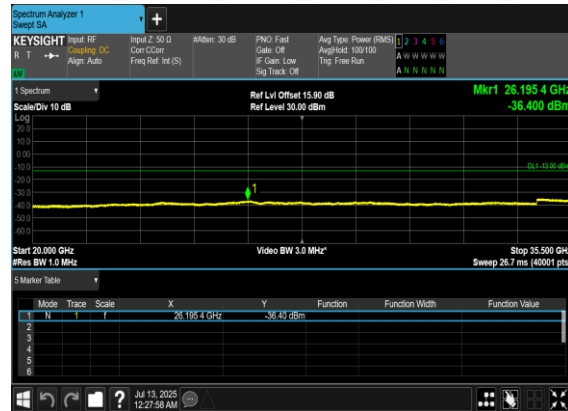
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

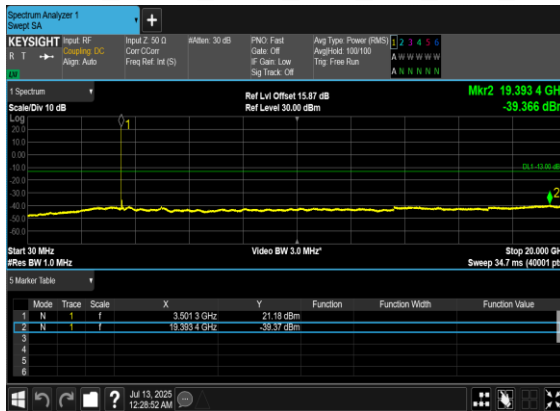


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

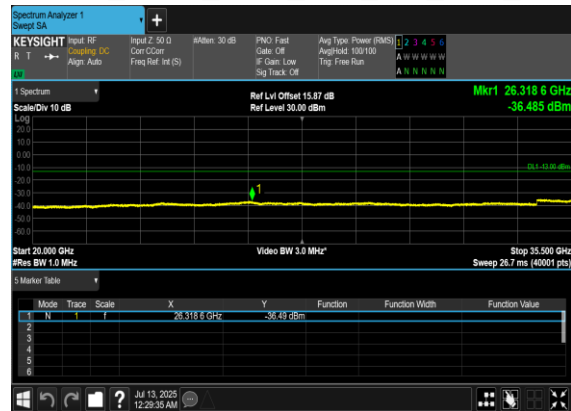




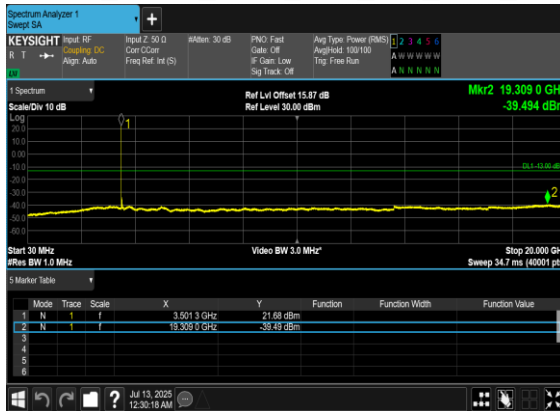
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



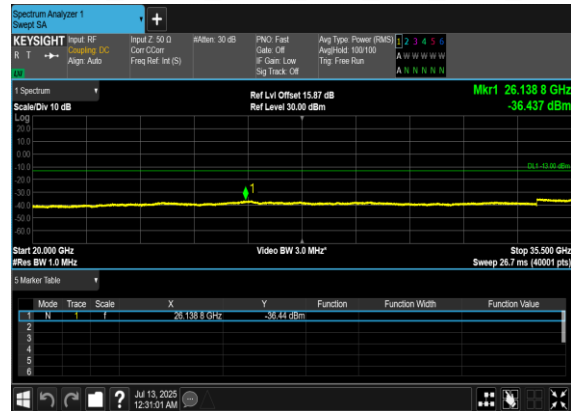
N77(50M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

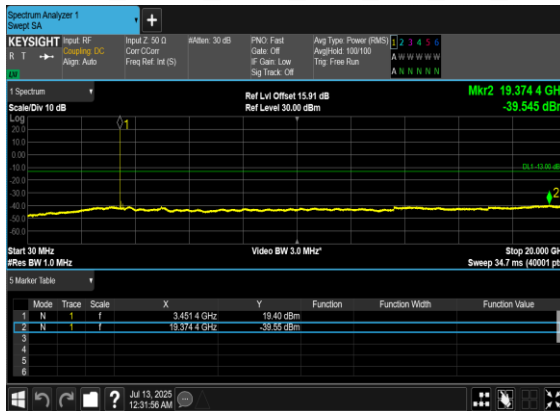


N77(50M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

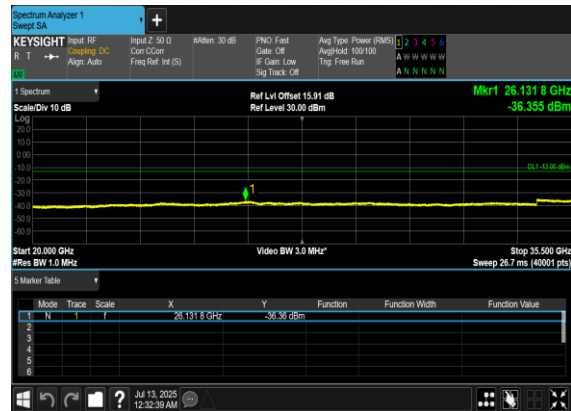




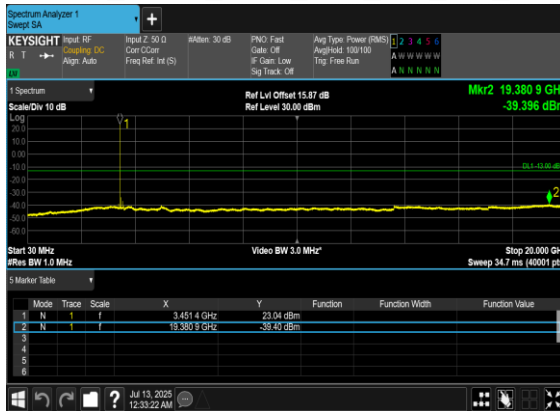
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



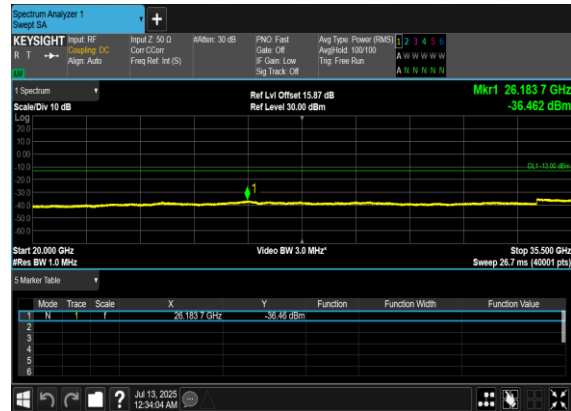
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



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